Anexa 1

FIŞA DE EVALUARE GENERALĂ A STANDARDELOR UNIVERSITĂŢII

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE
1	Articole ştiinţifice publicate *in extenso* în reviste cotate *Web of Science* cu factor de impact: **40**	**1867.188**
2	Articole ştiinţifice publicate *in extenso* în reviste indexate *Web of Science* fără factor de impact: **1**	**4.000**
3	Articole ştiinţifice publicate *in extenso* în reviste indexate BDI: **0**	**0**
4	Articole ştiinţifice publicate *in extenso* în volumele conferinţelor: **8**	**9.643**
5	Cărţi ştiinţifice publicate (doar prima ediţie)	**0**
6	Cărţi ştiinţifice traduse şi publicate în edituri din străinătate	**0**
7	Coordonarea şi editarea de volume, traduceri şi antologii	**0**
8	Articole publicate în dicţionare şi enciclopedii	**0**
9	Contracte de cercetare ştiinţifică în instituţii academice (universităţi, institute ale Academiei Române, institute naţionale de cercetare, institute de cercetare din străinătate, alte categorii de institute academice)	**22.192**
10	Contracte de cercetare în mediul de afaceri şi sectorul public	**0**
11	Brevete	**0**
12	Citări şi recenzii ale lucrărilor ştiinţifice	**22396.127**
13	Lucrări susţinute în calitate de invitat la manifestări ştiinţifice (conferinţe, congrese, simpozioane, seminarii şi ateliere de lucru)	**0**
14	Profesor/cercetător invitat la universităţi/institute de cercetare	**0**
15	Editor/Membru în Editorial Board & Advisory Board	**0**
16	Premii internaţionale obţinute printr-un proces de selecţie	**100.000**
17	Premii ale Academiei Române	**0**
18	Alte premii naţionale ale instituţiilor culturale	**30.000**
19	Participări la manifestări ştiinţifice	**0**
	TOTAL	**24429.15**

1. Articole ştiinţifice publicate *in extenso* în reviste cotate *Web of Science* cu factor de impact (60 puncte x factor de impact + 25) / număr autori							
Nr. Crt.	**Articol ISI (informaţii complete)**	**Nr.autori**	**AIS**	**IF**	**Quartila**	**Citări**	**Punctaj articol ISI**
1	**R. Jijie**, V. Pohoata and I. Topala, *Thermal behavior of bovine serum albumin after exposure to barrier discharge helium plasma jet*, **Applied Physics Letter**s, 101 (**2012**) 144103, 10.1063/1.4757130, WOS:000309603300107.	3	1.355	3.794	Q1	10	**84.213**
2	**R. Jijie**, C. Luca, V. Pohoata and I. Topala, *Effects of Atmospheric Pressure Plasma Jet on Pepsin Structure and Function*, **IEEE Transactions On Plasma Science**, 40 (11) (2012) 2980-2985, 10.1109/TPS.2012.2217509, WOS:000311355100004.	4	0.363	0.868	Q3	4	**19.270**
3	K. Hensel, K. Kučerová, B. Tarabová, M. Janda, Z. Machala, K. Sano, C. T. Mihai, M. Ciorpac, L. D. Gorgan, **R. Jijie**, V. Pohoata and I. Topala, *The effects of air tr6ansient spark discharge and helium plasma jet on water, bacteria, cells and biomolecules*, **Biointerphases** 10 (2) (2015) 029515, 10.1116/1.4919559, WOS:000357195600033.	12	0.664	2.105	Q3	71	**12.608**
4	V. Turcheniuk, V. Raks, R. Issa, R. Cooper, P. J. Cragg, **R. Jijie**, N. Dumitrascu, Mikhalovska, A. Barras, V. Zaitsev, R. Boukherroub, S. Szunerits, *Antimicrobial activity of menthol modified nanodiamond particles*, **Diamond & Related Materials** 57(2015) 2-8, 10.1016/j.diamond.2014.12.002, WOS:000361257800002.	12	0.482	2.125	Q2	35	**12.708**
5	**R. Jijie**, T. Dumych, L. Chengnang, J. Bouckaert, K. Turcheniuk, C. Hage, L. Heliot, B. Cudennec, N. Dumitrascu, R. Boukherroub and S. Szunerits, *Particle-based photodynamic therapy based on Indocyanine green modified plasmonic nanostructures for inactivation of Crohn's disease-associated Escherichia coli*, **Journal of Materials Chemistry B**, 4 (2016) 2598-2605, 10.1039/c5tb02697k, WOS:000374098800009.	11	0.943	4.543	Q1	14	**27.053**
6	M. Houcem, **R. Jijie**, G. Pan, D. Drider, D. Caly, J. Bouckaert, N. Dumitrascu, R. Chtourou, S. Szuneritz and R. Boukherroub, *A 980 nm driven photothermal ablation of virulent and antibiotic resistant Gram-positive and Gram-negative bacteria strains using Prussian blue nanoparticles*, **Journal of**	10	0.813	4.233	Q1	41	**27.898**

	Colloid and Interface Science, 480 (2016) 63-68, 10.1016/j.jcis.2016.07.002, WOS:000381244900008.						
7	I. Mihaila, V. Pohoata, **R. Jijie**, A.V. Nastuta, I. Rusu and I. Topala, *Formation of positive ions in hydrocarbon containing dielectric barrier discharge plasma*, **Advances in Space Research** 58 (11) (2016) 2416-2423, 10.1016/j.asr.2016.08.010, WOS:000388059300017.	6	0.45	4.233	Q3	2	**46.497**
8	S. Boulahneche, **R. Jijie**, A. Barras, F. Chekin, S. K. Singh, J. Bouckaert, M. Medjram, S. Kurungot, R. Boukherroub and S. Szunerits, *On demand electrochemical release of drugs from porous reduced graphene oxide modified flexible electrodes*, **Journal of Materials Chemistry B** 5(32) (2017) 6557-6565, 10.1039/c7tb00687j, WOS:000407684800011.	10	0.961	4.776	Q1	11	**31.156**
9	F. Halouane1, **R. Jijie1,** D. Meziane, C. Li, SK Singh, J Bouckaert, J Jurazek, S Kurungot, A Barras, M. Li, R. Boukherroub, S. Szunerits, Selective isolation and eradication of E. coli associated with urinary tract infections using anti-fimbrial modified magnetic reduced graphene oxide nanoheaters, Journal of Materials Chemistry B 5.40 (2017): 8133-8142, 10.1039/c7tb01890h.	12	0.961	4.776	Q1	15	**25.963**
10	**R. Jijie**, A. Barras, R. Boukherroub, S. Szunerits, *Nanomaterials for transdermal drug delivery: beyond the state of the art of liposomal structures*, **Journal of Materials Chemistry B**, 5 (44) (2017), 8653-8675, 10.1039/c7tb02529g, WOS:000415354000002.	4	0.961	4.776	Q1	51	**77.890**
11	C. Gerber, I. Mihaila, D. Hein, A. Nastuta, **R. Jijie**, V. Pohoata and I. Topala, *Time Behaviour of Helium Atmospheric Pressure Plasma Jet Electrical and Optical Parameters*. **Applied Sciences** 7(8) 2017, p.812, 10.3390/app7080812, WOS:000408905900062.	7	0.338	1.689	Q3	11	**18.049**
12	**R. Jijie,** A Barras, T. Teslaru, I. Topala, V. Pohata, M. Dobromir, T. Dumych, J. Bouckaert, S. Szunerits, N. Dumitrascu, R. Boukherroub, *Aqueous Medium-Induced Micropore Formation in Plasa Polymerzed Poystyrene: An effective route to Inhibit Bacteria Adhesion*, **Journal of Materials Chemistry** B 6(2018) 3674-3683, 10.1039/c7tb02964k, WOS:000434780000006.	11	0.916	5.047	Q1	1	**29.802**

13	K. Kahnlouche1, **R. Jijie1**, I Hosu, A. Barras, T. Gharbi, R. Yahiaoui, G. Herlem, M. Ferhat, S. Szunerits, R. Boukherroub, *Controlled modification of electrochemical microsystems with polyethylenimine/reduced graphene oxide using electrophoretic deposition: Sensing of dopamine levels in meat samples*, **Talanta** 178 (2018): 432-440, 0.1016/j.talanta.2017.09.065, WOS:000416615500057.	10	0.762	4.916	Q1	23	**31.996**
14	A. Vasilescu, R. Ye, S. Boulahneche, S. Lamraoui, **R. Jijie**, M. Medjram, S. Gaspar, S. Singh, S. Kurungot, S. Melinte, R. Boukherroub, S. Szunerits, *Porous reduced graphene oxide modified electrodes for the analysis of protein aggregation. Part 2: Application to the analysis of calcitonin containing pharmaceutical formulation*, **Electrochimica Acta** 266(2018) 364-372, 10.1016/j.electacta.2018.02.038, WOS:000427380600041.	12	0.81	5.383	Q1	5	**28.998**
15	**R. Jijie**, K. Kahlouche, A. Barras, N. Yamakawa, J. Bouckaert, T. Gharbi, S. Szunerits, R. Boukherroub, *Reduced graphene oxide/polyethylenimine based immunosensor for the selective and sensitive electrochemical detection of uropathogenic Escherichia coli*, **Sensors and Actuators B: Chemical** 260 (2018) 255-263, 10.1016/j.snb.2017.12.169, WOS:000424884300030.	8	0.824	6.393	Q1	63	**51.073**
16	F. Chekin, A. Vasilescu, **R. Jijie**, S. Singh, S. Kurungot, M. Iancu, G. Badea, R. Boukherroub, S. Szunerits, *Sensitive electrochemical detection of cardiac troponin I in serum and saliva by nitrogen-doped porous reduced graphene oxide electrode*, **Sensors and Actuators B: Chemical** 262(2018) 180-17, 10.1016/j.snb.2018.01.215, WOS:000427460600023	9	0.824	6.393	Q1	73	**45.398**
17	F. Chekin, K. Bagga, P. Subramanian, R. Jijie, S. Kurungot, R. Boukherroub, S. Szunerits, *Nucleic aptamer modified porous reduced graphene oxide/ MoS2 based electrodes for viral detection: Application to human papillomavirus*, **Sensors and Actuators B: Chemical** 262(2018) 991-1000, 10.1016/j.snb.2018.02.065, WOS:000427460600118.	7	0.824	6.393	Q1	54	**58.369**
18	M. Amiri, M. Fallahi, A. Bezaatpour, R. Jijie, M. Nozari, M. Rouhi, R. Boukherroub, S. Szunerits, *Solution*	8	1.017	4.309	Q1	20	**35.443**

	Processable Cu (II)macrocyle for the Formation of Cu2O Thin Film on ITO and its Application for Water Oxidation, **The Journal of Physical Chemistry C** (2018) 122 (29) 16510-16518, 10.1021/acs.jpcc.8b02808, WOS:000440520500007.						
19	**R. Jijie**, A. Barras, J. Bouckaert, N. Dumitrascu, S. Szunerits and R. Boukherroub, *Enhanced antibacterial activity of carbon dots functionalized with ampicillin combined with visible light triggered photodynamic effects*, **Colloids and Surfaces B: Biointerfaces** 170 (2018) 347-354, 10.1016/j.colsurfb.2018.06.040, WOS:000445989400041.	6	0.688	3.973	Q1	64	**43.897**
20	Altinbasak, **R. Jijie**, A. Barras, B. Golba, R. Sanyal, J. Bouckaert, D. Drider, R. Bilyy, T. Dumych, S. Paryzak, V. Vovk, R. Boukherroub, A. Sanyal, S. Szunerits, *Reduced Graphene Oxide Embedded Polymeric Nanofiber Mats: An, On-Demand' Photothermaly-Triggered Antibiotic Release Platform*, **ACS Applied Materials & Interfaces** 10(48) 2018:41098-41106, 10.1021/acsami.8b14784, WOS:000452694100017.	14	1.65	8.456	Q1	52	**38.026**
21	M. Budimir, **R. Jijie**, R. Ye, A. Barras, S. Melinte, A. Silhanek, Z. Markovic, S. Szunerits and R. Boukherroub, *Efficient capture and photothermal ablation of planktonic bacteria and biofilms using reduced graphene oxide-polyethyleneimine flexible nanoheaters*, **Journal of Materials Chemistry B** 7 (2019) 2771-2781, 10.1039/c8tb01676c, WOS:000471328500014.	9	0.909	5.344	Q1	26	**38.404**
22	S. Strungaru1, **R. Jijie1**, M. Nicoara, G. Plavan and C. Faggio, Micro-(nano) plastics in freshwater ecosystems: Abundance, toxicological impact and quantification methodology, **TrAC Trends in Anaytical Chemistry**, 110 (2019) 116-128, 10.1016/j.trac.2018.10.025, WOS:000454880400010.	5	1.772	9.801	Q1	231	**122.612**
23	H. Jafari, M. Amiri, E. Abdi, S. L. Navid, J. Bouckaert, **R. Jijie**, R. Boukherroub, S. Szunerits, *Entrapment of uropathogenic E.coli cells into ultra-thin sol-gel matrices on gold thin films: a low cost alterntive for impedimetric bacteria sensing*, **Biosensors and Bioelectronics** 124-125(2019) 161-166,	8	1.469	10.257	Q1	17	**80.053**

	10.1016/j.bios.2018.10.029,						
24	M. Li, **R. Jijie**, A. Barras, P. Roussel, S. Szunerits, R. Boukherroub, *NiFe layered double hydroxide electrodeposited on Ni foam coated with reduced graphene oxide for high-performance supercapacitors*, **Electrochimica Acta** 302 (2019) 1-9, 10.1016/j.electacta.2019.01.187, WOS:000459998000001.	6	0.877	6.215	Q1	62	**66.317**
25	Y. Bencheikh, M. Harnois, **R. Jijie**, A. Addad, P. Roussel, S. Szunerits, T. Hadjersi, S. Abaidia, R. Boukherroub, *High performance silicon nanowires/ruthenium nanoparticles micro-supercapacitors*, **Electrochimica Acta** 311 (2019) 150-159, 10.1016/j.electacta.2019.04.083, WOS:000467983100016.	9	0.877	6.215	Q1	24	**44.211**
26	J. T. Pandra, Q. Pagneux, J. Bouckaert, **R. Jijie**, H. Sundh, R. Boukherroub, S. Szunerits, S.K. Linden,, *Mucin modified SPR interfaces for studying the effect of flow on pathogen binding to Atlantic salmon mucins*, **Biosensors and Bioelectronics** 146 15(2019) 111736, 10.1016/j.bios.2019.111736, WOS:000497250600011.	8	1.469	10.257	Q1	5	**80.053**
27	**R. Jijie,** G. Solcan, M Nicoara, D. Micu, S. A. Strungaru, *Antagonistic effects in zebrafish (Danio rerio) behavior and oxidative stress induced by toxic metals and deltamethrin acute exposure*, **Science of The Total Environment** 698 (2020) 134299, 10.1016/j.scitotenv.2019.134299, WOS:000500580700106.	5	1.304	7.963	Q1	42	**100.556**
28	M. A. Robea**, R. Jijie**, M. Nicoara, G. Plavan, A. S. Ciobica, C. Solcan, G. Audira, C. Hsiao, S. A. Strungaru, *Vitamin C Attenuates Oxidative Stress and Behavioral Abnormalities Triggered by Fipronil and Pyriproxyfen Insecticide Chronic Exposure on Zebrafish Juvenile*, **Antioxidants** 9(10) (2020) 944; 10.3390/antiox9100944, WOS:000584087300001.	9	0.91	6.313	Q1	10	**44.864**
29	Y. Tadjenanta, N. Dokhan, A. Barrasa, A. Addad, **R. Jijie**, S. Szunerits, R. Boukherroub, *Graphene oxide chemically reduced and functionalized with KOH-PEI for efficient Cr(VI) adsorption and reduction in acidic medium*, **Chemosphere** 258 (2020) 127316, 10.1016/j.chemosphere.2020.127316, WOS:000566446500054.	7	1.023	7.086	Q1	42	**64.309**
30	I. A. Simionov, D. S. Cristea, S. M.	9	1.007	8.943	Q1	8	**62.398**

	Petrea, A. Mogodan, M. Nicoara, G. Pavan, E. S. Baltag, **R. Jijie**, S. A. Strungaru, *Preliminary investigation of lower Danube pollution caused y potentially toxic metals***, Chemosphere** 264 (2021) 128496 10.1016/j.chemosphere.2020.128496, WOS:000599817400073.						
31	I. M. Balmus, R. O. Cojocariu, A Ciobica, S. Strungaru, R**. Strungaru-Jijie**, A. Cantemir, C. Galatanu, L. Gorgan, *Preliminary Study on the Tears Oxidative Stress Status and Sleep Disturbances in Irritable Bowel Syndrome Patients*, **Oxidative Medicine and Cellular Longevity,** (2020) 4690713, 10.1155/2020/4690713, WOS:000540531300002.	8	1.203	6.543	Q2	8	**52.198**
32	O. D. Ilie, E. Paduraru, M. A. Robea, I. M. Balmus, **R. Jijie**, M. Nicoara, A. Ciobica, I. B. Nita, R. Dobrin and B. Doroftei, *The Possible Role of Bifidobacterium longum BB536 and Lactobacillus rhamnosus HN001 on Locomotor Activity and Oxidative Stress in a Rotenone-Induced Zebrafish Model of Parkinson's Disease*, **Oxidative Medicine and Cellular Longevity** (2021) 9629102, WOS:000715738700002, 10.1155/2021/9629102.	10	1.202	7.31	Q2	5	**46.360**
33	**R. Jijie,** G. Mihalache, M. Balmus, S. Strungaru, E. Baltag, A. Ciobica, M. Nicoara and C. Faggio, *Review zebrafish as a Screening Model to Study the Single and Joint Effects of Antibiotics*, **Pharmaceuticals** 14(6) (2021) 578, WOS:000665935700001, 10.3390/ph14060578.	8	0.896	5.215	Q1	16	**42.238**
34	I. A. Simionov, D. S. Cristea, S.M. Petrea, A. Mogodan, **R. Jijie**, E. Ciornea, M. Nicoara, M. Rahoveanu, V. Cristea, *Predictive Innovative Methods for Aquatic Heavy Metals Pollution based on Bioindicators in Support of Blue Economy in the Danube River Basin*, **SUSTAINABILITY** 13(16) (2021) 896, WOS:000690238300001, 10.3390/su13168936.	9	0.516	3.889	Q2	1	**28.704**
35	S. Strungaru, C. Pohontiu, M. Nicoară, C. Teodosiu, E. Baltag, **R. Jijie**, G. Plavan, O. Pacioglu and C. Faggio, *Response of aquatic macroinvertebrates communities to multiple anthropogenic stressors in a lowland tributary river*, **Environmental Toxicology and Pharmacology** (2021) 87:103687, WOS:000696700600007,	9	0.665	5.785	Q1	14	**41.344**

	10.1016/j.etap.2021.103687.						
36	E. Paduraru, E-I. Flocea, C.C. Lazado, I-A. Simionov, M. Nicoara, A. Ciobica, C. Faggio, **R. Jijie***, *Vitamin C Mitigates Oxidative Stress and Behavioral Impairments Induced by Deltamethrin and Lead Toxicity in Zebrafish*, **International Journal of Molecular Sciences** (2021) 22(23) 12714, WOS:000734866500001, 10.3390/ijms222312714.	8	1.064	6.208	Q1	9	**49.685**
37	E. Paduraru, D. Iacob, V. Rarinca, A. Rusu, R. Jijie, O. D. Ilie, A. Ciobica, M. Nicoara, B. Doroftei, *Comprehensive Review Regarding Mercury Poisoning and Its Complex Involvement in Alzeimer's Disease*, **International Journal of Molecular Sciences** (2022) 23(4) 1992, WOS:000762712900001, 10.3390/ijms23041992.	9	1.064	6.208	Q1	0	**44.164**
38	O.D. Ilie, R. Duta, **R. Jijie**, I.B. Nita, M. Nicoara, C. Faggio, R. Dobrin, I. Mavroudis, A. Ciobica, B. Doroftei, *Assessing Anti-Social and Aggressive Behavior in a Zebrafish (Danio rerio) Model of Parkinson's Disease Chronically Exposed to Rotenone*, **Brain Sciences** (2022) 12(7) 898 10.3390/brainsci12070898, WOS:000831393600001.	10	0.801	3.333	Q3	0	**22.498**
39	V. Tiron, M. A. Ciolan, G. Bulai, G. Mihalache, F. D. Lipsa, **R. Jijie***, *Efficient Removal of Methylene Blue and Ciprofloxacin from Aqueous Solution Using Flower-like Nanostructured ZnO Coating under UV Irradiation*, **NANOMATERIALS** (2022) 12(13) 2193, 10.3390/nano12132193, WOS:000824074700001.	6	0.738	5.719	Q1	0	**61.357**
40	O. D. Ilie, R. Duta, I.M. Balmus, A. Savuca, A. Petrovici, I. B. Nita, L. M. Antoci, **R. Jijie,** C. T. Mihai, A. Ciobica, M. Nicoară, R. Popescu, R. Dobrin, C. Solcan, A. Trifan, C. Stanciu, B. Doroftei, *Assessing the Neurotoxicity of a Sub-Optimal Dose of Rotenone in Zebrafish (Danio rerio) and the Possible Neuroactive Potential of Valproic Acid, Combination of Levodopa and Carbidopa, and Lactic Acid Bacteria Strains*, **Antioxidants** (2022) 11(10) 2040 10.3390/antiox11102040, WOS:000872070800001.	17	0.921	7.675	Q1	0	**28.559**
Total:							**1867.188**

2.Articole ştiinţifice publicate *in extenso* în reviste indexate fără factor de impact

20 puncte / număr autori

Nr. Crt.	Articol ISI (informaţii complete)	Nr.autori	AIS	IF	Quartila	Citări	Punctaj articol ISI
1	**R. Jijie**, A. Barras, F. Teodorescu, R. Boukherroub and S. Szunerits, *Advancements on the molecular design of nanoantibiotics: current level of development and future challenges*, **Molecular Systems Design & Engineering** 2.4 (2017): 349-369, 10.1039/c7me00048k, WOS:000412769000002.	5	-	-	-	32	**4.000**
Total:							**4.000**

9. Contracte de cercetare ştiinţifică în instituţii academice (universităţi, institute ale Academiei Române, institute naţionale de cercetare, institute de cercetare din străinătate, alte categorii de institute academice)

contracte internaţionale – membru: 100 puncte pentru fiecare 100.000 Euro / numărul membrilor echipei de cercetare

Nr. Crt.	Proiect	Suma totala (Euro)	Nr.	Punctaj
1	Proiect Noaptea Europeana a Cercetatorilor Romania 2014-2015 (noapteacercetatorilor.eu/doyouspeakscience/echipa)	32641	22	**1.484**
contracte naţionale – membru: 50 puncte pentru fiecare 500.000 lei / numărul membrilor echipei de cercetare				
1	Proiect de cercetare I.D. : 349, 2014-2016, Synthesis of transient complex molecular systems in laboratory plasmas with relevance for molecular astrophysics of hot cores, 96/11.12.2013, asistent de cerctare pe perioada determinate de 27 luni, 01.10.2014 – 31.12.2016.	800000	6	**13.333**
2	Procese integrate si sustenabile de depoluare a mediului, reutilizare a apelor uzate si valorificare a deseurilor (SUSTENVPRO); Proiect complex realizat in consortii CDI: PNIII-P1-1.2-PCCDI-2017-0245; Contract 26PCCDI/2018; Coordonator: prof. dr. habil. Mircea Nicoara;	663750	9	**7.375**
Total:				**22.192**

12. Citări şi recenzii ale lucrărilor ştiinţifice

reviste de specialitate din străinătate: (10 + 20 x factor de impact) / număr autori, pentru fiecare citare

Nr. Crt.	Titlu articol	Autori	Jurnal	An	Vol	Pag	n (numar autori)	numar citari (fara autocitari)	Punctaj
1	Vitamin C Mitigates Oxidative Stress and Behavioral Impairments Induced by Deltamethrin and Lead Toxicity in Zebrafish	E. Paduraru, E-I. Flocea, C.C. Lazado, I-A. Simionov, M. Nicoara, A. Ciobica, C. Faggio, **R. Jijie**	International Journal of Molecular Sciences	2021	22	16	8	**8**	**109.773**
2	Response of aquatic macroinvertebrates communities to multiple anthropogenic stressors in a lowland tributary river	S. Strungaru, C. Pohontiu, M. Nicoară, C. Teodosiu, E. Baltag, **R. Jijie**, G. Plavan, O. Pacioglu and C. Faggio	Environmental Toxicology and Pharmacology	2021	87	9	9	**14**	**168.198**
3	Predictive Innovative Methods for Aquatic Heavy Metals Pollution based on Bioindicators in Support of Blue Economy in the Danube River Basin	I. A. Simionov, D. S. Cristea, S.M. Petrea, A. Mogodan, **R. Jijie**, E. Ciornea, M. Nicoara, M. Rahoveanu, V. Cristea	Sustainability	2021	13	40	9	**1**	**8.956**
4	Zebrafish as a Screening Model to Study the Single and Joint Effects of Antibiotics	**R. Jijie**, G. Mihalache, M. Balmus, S. Strungaru, E. Baltag, A. Ciobica, M. Nicoara and C. Faggio	Pharmaceuticals	2021	14	26	8	**14**	**240.060**
5	Preliminary investigation of lower Danube pollution caused by potentially toxic metals	I. A. Simionov, D. S. Cristea, S. M. Petrea, A. Mogodan, M. Nicoara, G. Pavan, E. S. Baltag, **R. Jijie**, S. A. Strungaru,	Chemosphere	2021	264	13	9	**7**	**92.122**
6	The Possible Role of Bifidobacterium longum BB536 and Lactobacillus rhamnosus HN001 on Locomotor Activity and Oxidative Stress in a Rotenone-Induced Zebrafish Model of Parkinson's Disease	O. D. Ilie, E. Paduraru, M. A. Robea, I. M. Balmus, **R. Jijie**, M. Nicoara, A. Ciobica, I. B. Nita, R. Dobrin and B. Doroftei	Oxidative Medicine and Cellular Longevity	2021		11	10	**2**	**23.358**
7	Graphene oxide chemically reduced and functionalized with KOH-PEI for efficient Cr(VI) adsorption and reduction in acidic medium	Y. Tadjenanta, N. Dokhan, A. Barrasa, A. Addad, **R. Jijie**, S. Szunerits, R. Boukherroub	Chemosphere	2020	258	13	7	**43**	**924.320**
8	Vitamin C Attenuates Oxidative Stress and Behavioral Abnormalities Triggered by Fipronil and Pyriproxyfen Insecticide Chronic Exposure on Zebrafish Juvenile	M. A. Robea**, R. Jijie**, M. Nicoara, G. Plavan, A. S. Ciobica, C. Solcan, G. Audira, C. Hsiao, S. A. Strungaru	Antioxidants	2020	9	17	9	**7**	**102.536**

9	Preliminary Study on the Tears Oxidative Stress Status and Sleep Disturbances in Irritable Bowel Syndrome Patients	M. Balmus, R. O. Cojocariu, A Ciobica, S. Strungaru, **R. Strungaru-Jijie,** A. Cantemir, C. Galatanu, L. Gorgan,	Oxidative Medicine and Cellular Longevity	2020		9	8	**4**	**52.963**
10	Antagonistic effects in zebrafish (Danio rerio) behavior and oxidative stress induced by toxic metals and deltamethrin acute exposure	**R. Jijie**, G. Solcan, M Nicoara, D. Micu, S. A. Strungaru,	Science of the Total Environment	2020	698	12	5	**31**	**848.232**
11	Mucin modified SPR interfaces for studying the effect of flow on pathogen binding to Atlantic salmon mucins	J. T. Pandra, Q. Pagneux, J. Bouckaert, **R. Jijie**, H. Sundh, R. Boukherroub, S. Szunerits, S.K. Linden	Biosensors and Bioelectronics	2019	146	9	8	**4**	**40.690**
12	High performance silicon nanowires/ruthenium nanoparticles micro-supercapacitors	Y. Bencheikh, M. Harnois, **R. Jijie**, A. Addad, P. Roussel, S. Szunerits, T. Hadjersi, S. Abaidia, R. Boukherroub	Electrochimica Acta	2019	311	10	9	**18**	**285.636**
13	NiFe layered double hydroxide electrodeposited on Ni foam coated with reduced graphene oxide for high-performance supercapacitors	M. Li, **R. Jijie,** A. Barras, P. Roussel, S. Szunerits, R. Boukherroub	Electrochimica Acta	2019	302	9	6	**67**	**1546.273**
14	Entrapment of uropathogenic E.coli cells into ultra-thin sol-gel matrices on gold thin films: a low cost alterntive for impedimetric bacteria sensing	H. Jafari, M. Amiri, E. Abdi, S. L. Navid, J. Bouckaert, **R. Jijie**, R. Boukherroub, S. Szunerits	Biosensors and Bioelectronics	2019	124	6	8	**19**	**271.780**
15	Efficient capture and photothermal ablation of planktonic bacteria and biofilms using reduced graphene oxide-polyethyleneimine flexible nanoheaters	M. Budimir, **R. Jijie**, R. Ye, A. Barras, S. Melinte, A. Silhanek, Z. Markovic, S. Szunerits and R. Boukherroub	Journal of Materials Chemistry B	2019	7	10	9	**22**	**393.018**
16	Micro-(nano) plastics in freshwater ecosystems: Abundance, toxicological impact and quantification methodology	S. Strungaru1, **R. Jijie1**, M. Nicoara, G. Plavan and C. Faggio	TrAC Trends in Anaytical Chemistry	2019	110	13	5	**215**	**6390.468**
17	Reduced Graphene Oxide Embedded Polymeric Nanofiber Mats: An, On-Demand' Photothermaly-Triggered Antibiotic Release Platform	Altinbasak, **R. Jijie**, A. Barras, B. Golba, R. Sanyal, J. Bouckaert, D. Drider, R. Bilyy, T. Dumych, S. Paryzak, V. Vovk, R. Boukherroub, A. Sanyal, S. Szunerits	ACS Applied Materials & Interfaces	2018	10	8	14	**49**	**607.820**
18	Enhanced antibacterial activity of carbon dots functionalized with ampicillin combined with visible light triggered	**R. Jijie**, A. Barras, J. Bouckaert, N. Dumitrascu, S. Szunerits and R. Boukherroub	Colloids ad Surfaces B: Biointerfaces	2018	170	7	6	**63**	**1435.320**

	photodynamic effects								
19	Solution Processable Cu(II)macrocyle for the Formation of Cu2O Thin Film on ITO and its Application for Water Oxidation	M. Amiri, M. Fallahi, A. Bezaatpour, **R. Jijie**, M. Nozari, M. Rouhi, R. Boukherroub, S. Szunerits	The Journal of Physical Chemistry C	2018	122	8	8	**20**	**412.445**
20	Sensitive electrochemical detection of cardiac troponin I in serum and saliva by nitrogen-doped porous reduced graphene oxide electrode	F. Chekin, A. Vasilescu, **R. Jijie**, S. Singh, S. Kurungot, M. Iancu, G. Badea, R. Boukherroub, S. Szunerits	Sensors and Actuators B: Chemical	2018	262	7	9	**74**	**1143.571**
21	Porous reduced graphene oxide modified electrodes for the analysis of protein aggregation. Part 2: Application to the analysis of calcitonin containing pharmaceutical formulation	A. Vasilescu, R. Ye, S. Boulahneche, S. Lamraoui**, R. Jijie**, M. Medjram, S. Gaspar, S. Singh, S. Kurungot, S. Melinte, R. Boukherroub, S. Szunerits	Electrochimica Acta	2018	266	9	12	**5**	**38.022**
22	Controlled modification of electrochemical microsystems with polyethylenimine/reduced graphene oxide using electrophoretic deposition: Sensing of dopamine levels in meat samples	K. Kahnlouche1, **R. Jijie1**, I Hosu, A. Barras, T. Gharbi, R. Yahiaoui, G. Herlem, M. Ferhat, S. Szunerits, R. Boukherroub	Talanta	2018	178	9	10	**25**	**289.144**
23	Aqueous Medium-Induced Micropore Formation in Plasa Polymerzed Poystyrene: An effective route to Inhibit Bacteria Adhesion	**R. Jijie,** A Barras, T. Teslaru, I. Topala, V. Pohata, M. Dobromir, T. Dumych, J. Bouckaert, S. Szunerits, N. Dumitrascu, R. Boukherroub	Journal of Materials Chemistry B	2018	69	10	11	**1**	**3.758**
24	Time Behaviour of Helium Atmospheric Pressure Plasma Jet Electrical and Optical Parameters	C. Gerber, I. Mihaila, D. Hein, A. Nastuta, **R. Jijie**, V. Pohoata and I. Topala	Applied Sciences	2017	7	16	7	**12**	**120.360**
25	Nanomaterials for transdermal drug delivery: beyond the state of the art of liposomal structures	R. Jijie, A. Barras, R. Boukherroub, S. Szunerits,	Journal of Materials Chemistry B	2017	5	22	4	**46**	**1287.615**
26	Selective isolation and eradication of E. coli associated with urinary tract infections using anti-fimbrial modified magnetic reduced graphene oxide nanoheaters	F. Halouane1, **R. Jijie1**, D. Meziane, C. Li, SK Singh, J Bouckaert, J Jurazek, S Kurungot, A Barras, M. Li, R. Boukherroub, S. Szunerits	Journal of Materials Chemistry B	2017	5	9	12	**15**	**134.563**
27	On demand electrochemical release of drugs from porous reduced graphene oxide modified flexible electrodes	S. Boulahneche, **R. Jijie**, A. Barras, F. Chekin, S. K. Singh, J. Bouckaert, M. Medjram, S. Kurungot, R. Boukherroub and S. Szunerits	Journal of Materials Chemistry B	2017	5	8	10	**9.00**	**40.770**

28	Formation of positive ions in hydrocarbon containing dielectric barrier discharge plasma	I. Mihaila, V. Pohoata, **R. Jijie**, A.V. Nastuta, I. Rusu and I. Topala	Advances in Space Research	2016	58	8	6	**2.00**	**27.147**
29	A 980 nm driven photothermal ablation of virulent and antibiotic resistant Gram-positive and Gram-negative bacteria strains using Prussian blue nanoparticles	M. Houcem, **R. Jijie**, G. Pan, D. Drider, D. Caly, J. Bouckaert, N. Dumitrascu, R. Chtourou, S. Szuneritz and R. Boukherroub	Journal of Colloid and Interface Science	2016	480	6	10	**40.00**	**682.030**
30	Particle-based photodynamic therapy based on Indocyanine green modified plasmonic nanostructures for inactivation of Crohn's disease-associated Escherichia coli	**R. Jijie**, T. Dumych, L. Chengnang, J. Bouckaert, K. Turcheniuk, C. Hage, L. Heliot, B. Cudennec, N. Dumitrascu, R. Boukherroub and S. Szunerits	Journal of Materials Chemistry B	2016	4	8	11	**14.00**	**142.902**
31	Antimicrobial activity of menthol modified nanodiamond particles	V. Turcheniuk, V. Raks, R. Issa, R. Cooper, P. J. Cragg, **R. Jijie**, N. Dumitrascu, Mikhalovska, A. Barras, V. Zaitsev, R. Boukherroub, S. Szunerits	Diamond & Related Materials	2015	57	7	12	**32.00**	**236.468**
32	Effects of air transient spark discharge and helium plasma jet on water, bacteria, cells and biomolecules	K. Hensel, K. Kučerová, B. Tarabová, M. Janda, Z. Machala, K. Sano, C. T. Mihai, M. Ciorpac, L. D. Gorgan, **R. Jijie**, V. Pohoata and I. Topala	Biointerphases	2015	10	15	12	**66.00**	**339.568**
33	Effects of Atmospheric Pressure Plasma Jet on Pepsin Structure and Function	**R. Jijie**, C. Luca, V. Pohoata and I. Topala	IEEE Transactions On Plasma Science	2012	40	5	4	**4.00**	**48.525**
34	Thermal behavior of bovine serum albumin after exposure to barrier discharge helium plasma jet	**R. Jijie**, V. Pohoata and I. Topala	Applied Physics Letters	2012	101	5	3	**10.00**	**177.940**
35	Advancements on the molecular design of nanoantibiotics: current level of development and future challenges	**R. Jijie**, A. Barras, F. Teodorescu, R. Boukherroub and S. Szunerits	Molecular Systems Design & Engineering	2017	2	20	5	**26.00**	**685.844**
36	Nucleic aptamer modified porous reduced graphene oxide/ MoS2 based electrodes for viral detection: Application to human papillomavirus	F. Chekin, K. Bagga, P. Subramanian, **R. Jijie**, S. Kurungot, R. Boukherroub, S. Szunerits	Sensors and Actuators B: Chemical	2018	262	10	7	**51.00**	**1161.469**
37	Reduced graphene oxide/polyethylenimine based immunosensor for the selective and sensitive electrochemical detection of uropathogenic Escherichia coli	**R. Jijie**, K. Kahlouche, A. Barras, N. Yamakawa, J. Bouckaert, T. Gharbi, S. Szunerits, R. Boukherroub	Sensors and Actuators B: Chemical	2018	260	9	8	**57.00**	**1043.678**
Total								**1097**	**21557.34**

12. Citări şi recenzii ale lucrărilor ştiinţifice reviste de specialitate din străinătate: (10 + 20 x factor de impact) / număr autori, pentru fiecare citare									
Nr. Crt.	**Titlu articol**	**Autori**	**Jurnal**	**An**	**Vol**	**DOI**	**n (numar autori)**	**IF**	**Punctaj**
1	Vitamin C Mitigates Oxidative Stress and Behavioral Impairments Induced by Deltamethrin and Lead Toxicity in Zebrafish	E. Paduraru, E-I. Flocea, C.C. Lazado, I-A. Simionov, M. Nicoara, A. Ciobica, C. Faggio, **R. Jijie**	International Journal of Molecular Sciences	2021	16	10.3390/ijms222312714	8	**6.208**	**109.773**
1.1	Impact of pharmaceutical products on zebrafish: An effective tool to assess aquatic pollution	Porretti, M; Arrigo, F; Di Bella, G; Faggio, C	Comparative Biochemistry And Physiology C-Toxicology & Pharmacology	2022	261	10.1016/j.cbpc.2022.109439	8	4.52	**12.55**
1.2	2, 5-dichloro-1, 4-benuinone exposure to zebrafish embryos/larvae causes neurodevelopmental toxicity	Chen, YY; Xiao, L; Gao, GY; He, LT; Zhao, K; Shang, XJ; Liu, CY	Ecotoxicology And Environmental Safety	2022	243	10.1016/j.ecoenv.2022.114007	8	7.129	**19.0725**
1.3	Transcriptome profiling reveals toxicity mechanisms following sertraline exposure in the brain of juvenile zebrafish (Danio rerio)	Yang, HT; Gu, XH; Chen, HH; Zeng, QF; Mao, ZG; Jin, M; Li, HM; Ge, Y; Zha, JM; Martyniuk, CJ	Ecotoxicology And Environmental Safety	2022	242	10.1016/j.ecoenv.2022.113936	8	7.129	**19.0725**
1.4	Impacts of cetylpyridinium chloride on the behavior and brain neurotransmitter levels of juvenile and adult zebrafish (Danio rerio)	Dong, KJ; Li, LX; Chen, C; Tengbe, MS; Chen, K; Shi, YH; Wu, XY; Qiu, XC	Comparative Biochemistry And Physiology C-Toxicology & Pharmacology	2022	259	10.1016/j.cbpc.2022.109393	8	4.52	**12.55**
1.5	Assessing Anti-Social and Aggressive Behavior in a Zebrafish (Danio rerio) Model of Parkinson's Disease Chronically Exposed to Rotenone	Ilie, OD; Duta, R; Jijie, R; Nita, IB; Nicoara, M; Faggio, C; Dobrin, R; Mavroudis, I; Ciobica, A; Doroftei, B	Brain Sciences	2022	12	10.3390/brainsci12070898	8	0	**0**
1.6	Imidacloprid toxicity in Clarias gariepinus: Protective role of dietary Hyphaene thebaica against biochemical and histopathological disruption, oxidative stress,	Rahman, ANA; Mansour, DA; Abd El-Rahman, GI; Elseddawy, NM; Zaglool, AW; Khamis, T; Mahmoud, SF; Mahboub, HH	Aquaculture	2022	555	10.1016/j.aquaculture.2022.738170	8	5.135	**14.0875**

	immune and Aeromonas sobria infection								
1.7	Effects of Diazinon on the Survival, Blood Parameters, Gills, and Liver of Grass Carp (Ctenopharyngodon idella Valenciennes, 1844; Teleostei: Cyprinidae)	Vali, S; Majidiyan, N; Azadikhah, D; Varcheh, M; Tresnakova, N; Faggio, C	Water	2022	14	10.3390/w14091357	8	3.53	**10.075**
1.8	Persistent impact of amitriptyline on the behavior, brain neurotransmitter, and transcriptional profile of zebrafish (Danio rerio)	Qiu, XC; Chen, C; Shi, YH; Chen, K; Li, M; Xu, H; Wu, XY; Takai, Y; Shimasaki, Y; Oshima, Y	Aquatic Toxicology	2022	245	10.1016/j.aquatox.2022.106129	8	5.202	**14.255**
1.9	The Dietary Effects of Nutmeg (Myristica fragrans) Extract on Growth, Hematological Parameters, Immunity, Antioxidant Status, and Disease Resistance of Common Carp (Cyprinus carpio) against Aeromonas hydrophila	Rashidian, G; Shahin, K; Elshopakey, GE; Mahboub, HH; Fahim, A; Elabd, H; Prokic, MD; Faggio, C	Journal Of Marine Science And Engineering	2022	10	10.3390/jrase10030325	8	2.744	**8.11**
2	Response of aquatic macroinvertebrates communities to multiple anthropogenic stressors in a lowland tributary river	S. Strungaru, C. Pohontiu, M. Nicoară, C. Teodosiu, E. Baltag, **R. Jijie**, G. Plavan, O. Pacioglu and C. Faggio	Environmental Toxicology And Pharmacology	2021	87	10.1016/j.etap.2021.103687	9	5.785	**168.198**
2.1	Antioxidant enzyme activity and pathophysiological responses in the freshwater walking catfish, Clarias batrachus Linn under sub-chronic and chronic exposures to the neonicotinoid, Thiamethoxam (R)	Mukherjee, D; Saha, S; Chukwuka, AV; Ghosh, B; Dhara, K; Saha, NC; Pal, P; Faggio, C	Science Of The Total Environment	2022	836	10.1016/j.scitotenv.2022.155716	9	10.753	**25.007**
2.2	Ecotoxicological Effects of Pesticides on Hematological Parameters and Oxidative Enzymes in Freshwater Catfish, Mystus keletius	Barathinivas, A; Ramya, S; Neethirajan, K; Jayakumararaj, R; Pothiraj, C; Balaji, P; Faggio, C	Sustainability	2022	14	10.3390/su14159529	9	3.889	**9.753**
2.3	Nitrate-Induced Toxicity and Potential Attenuation of Behavioural and Stress Biomarkers in Tubifex tubifex	Garai, P; Banerjee, P; Sharma, P; Mondal, P; Saha, NC; Faggio, C	International Journal Of Environmental Research	2022	16	10.1007/s41742-022-00443-4	9	3.229	**8.287**
2.4	Ammonia stress affects the structure and function of	Zhao, MM; Aweya, JJ; Feng, Q; Zheng, ZH; Yao, DF;	Ecotoxicology And Environmental Safety	2022	241	10.1016/j.ecoenv.2022.1	9	7.129	**16.953**

	hemocyanin in Penaeus vannamei	Zhao, YZ; Chen, XL; Zhang, YL				13827			
2.5	Effects of Diazinon on the Survival, Blood Parameters, Gills, and Liver of Grass Carp (Ctenopharyngodon idella Valenciennes, 1844; Teleostei: Cyprinidae)	Vali, S; Majidiyan, N; Azadikhah, D; Varcheh, M; Tresnakova, N; Faggio, C	Water	2022	14	10.3390/w14091357	9	3.53	**8.956**
2.6	Influence of Fish Ponds on the Benthic Invertebrate Composition in Hydrological Networks of Selected Fish Farms in Southern Poland	Jakubiak, M; Bojarski, B; Bien, M; Stonawski, B; Oglecki, P	Folia Biologica-Krakow	2022	70	10.3409/fb_70-1.02	9	0.714	**2.698**
2.7	Biomolecular alterations in the early life stages of four food fish following acute exposure of Triclosan	Dar, OI; Aslam, R; Sharma, S; Jia, AQ; Kaur, A; Faggio, C	Environmental Toxicology And Pharmacology	2022	91	10.1016/j.etap.2022.103820	9	5.785	**13.967**
2.8	Effects of short-term selenium exposure on respiratory activity and proximate body composition of early-life stages of Catla catla, Labeo rohita and Cirrhinus mrigala	Dhara, K; Chukwuka, AV; Saha, S; Saha, NC; Faggio, C	Environmental Toxicology And Pharmacology	2022	90	10.1016/j.etap.2021.103805	9	5.785	**13.967**
2.9	Source, bioaccumulation, degradability and toxicity of triclosan in aquatic environments: A review	Dar, OI; Raouf, A; Deng, P; Sunil, S; Megha, A; Kaur, A; Jia, AQ; Faggio, C	Environmental Technology & Innovation	2022	25	10.1016/j.eti.2021.102122	9	7.758	**18.351**
2.10.	Seasonality effects on the metal concentration and biochemical changes in Astyanax lacustris (Teleostei: Characiformes) from Doce River after the collapse of the Fundao dam in Mariana, Brazil	Mercon, J; Cabral, DS; Teixeira, BC; Pereira, TM; Bona, AM; Armin, CVL; Agostinho, SGD; Vasconcelos, CM; Gomes, LC	Environmental Toxicology And Pharmacology	2022	89	10.1016/j.etap.2021.103777	9	5.785	**13.967**
2.11	Cytopathological and ultrastructural changes in the male reproductive organs of freshwater crab Paratelphusa jacquemontii (Rathbun) exposed to nurocombi	Archunan, S; Athisuyambulingam, M; Pradhoshini, KP; Yelappu, N; Viswambaran, G; Kannayiram, M; Priyadharshini, M; Musthafa, MS; Faggio, C	Microscopy Research And Technique	2022	85	10.1002/jemt.24000	9	2.893	**7.540**
2.12	Chronic Effects of Diazinon(R) Exposures Using Integrated	Saha, S; Chukwuka, AV; Mukherjee, D; Patnaik, L;	Applied Sciences-Basel	2021	11	10.3390/app112210902	9	2.838	**7.418**

	Biomarker Responses in Freshwater Walking Catfish, Clarias batrachus	Nayak, S; Dhara, K; Saha, NC; Faggio, C							
2.13	Updating the use of biochemical biomarkers in fish for the evaluation of alterations produced by pharmaceutical products	Gallego-Rios, SE; Penuela, GA; Martinez-Lopez, E	Environmental Toxicology And Pharmacology	2021	88	10.1016/j.etap.2021.103756	9	5.785	**13.967**
2.14	Histological effects of sublethal concentrations of insecticide Lindane on intestinal tissue of grass carp (Ctenopharyngodon idella)	Vajargah, MF; Namin, JI; Mohsenpour, R; Yalsuyi, AM; Prokic, MD; Faggio, C	Veterinary Research Communications	2021	45	10.1007/s11259-021-09818-y	9	2.816	**7.369**
3	Predictive Innovative Methods for Aquatic Heavy Metals Pollution based on Bioindicators in Support of Blue Economy in the Danube River Basin	I. A. Simionov, D. S. Cristea, S.M. Petrea, A. Mogodan, **R. Jijie**, E. Ciornea, M. Nicoara, M. Rahoveanu, V. Cristea	Sustainability	2021	13	10.3390/su13168936	9	3.889	**8.956**
3.1	Romanian Danube River Hydrocarbon Pollution in 2011-2021	Radu, C; Manoiu, VM; Kubiak-Wojcicka, K; Avram, E; Beteringhe, A; Craciun, AI	Water	2022	14	10.3390/w14193156	9	3.53	8.956
4	Zebrafish as a Screening Model to Study the Single and Joint Effects of Antibiotics	**R. Jijie**, G. Mihalache, M. Balmus, S. Strungaru, E. Baltag, A. Ciobica, M. Nicoara and C. Faggio	Pharmaceuticals	2021	14	10.3390/ph14060578.	8	5.215	**240.060**
4.1	Impact of pharmaceutical products on zebrafish: An effective tool to assess aquatic pollution	Porretti, M; Arrigo, F; Di Bella, G; Faggio, C	Comparative Biochemistry And Physiology C-Toxicology & Pharmacology	2022	261	10.1016/j.cbpc.2022.109439	8	4.52	**12.550**
4.2	Are BPA-free plastics safe for aquatic life?-Fluorene-9-bisphenol induced thyroid-disrupting effects and histopathological alterations in adult zebrafish (Danio rerio)	Ozkan-Kotiloglu, S; Arslan, P; Akca, G; Gunal, AC	Comparative Biochemistry And Physiology C-Toxicology & Pharmacology	2022	260	10.1016/j.cbpc.2022.109419	8	4.52	**12.550**
4.3	Evaluation of Locomotion Complexity in Zebrafish after Exposure to Twenty Antibiotics by Fractal Dimension and Entropy Analysis	Suryanto, ME; Yang, CC; Audira, G; Vasquez, RD; Roldan, MJM; Ger, TR; Hsiao, CD	Antibiotics-Basel	2022	11	10.3390/antibiotics11081059	8	5.222	**14.305**
4.4	Assessing Anti-Social and Aggressive Behavior in a Zebrafish (Danio rerio) Model of Parkinson's	Ilie, OD; Duta, R; Jijie, R; Nita, IB; Nicoara, M; Faggio, C; Dobrin, R; Mavroudis, I;	Brain Sciences	2022	12	10.3390/brainsci12070898	8		**0.000**

	Disease Chronically Exposed to Rotenone	Ciobica, A; Doroftei, B							
4.5	Efficient Removal of Methylene Blue and Ciprofloxacin from Aqueous Solution Using Flower-like, Nanostructured ZnO Coating under UV Irradiation	Tiron, V; Ciolan, MA; Bulai, G; Mihalache, G; Lipsa, FD; Jijie, R	Nanomaterials	2022	12	10.3390/nano12132193	8		**0.000**
4.6	Effects of Diazinon on the Survival, Blood Parameters, Gills, and Liver of Grass Carp (Ctenopharyngodon idella Valenciennes, 1844; Teleostei: Cyprinidae)	Vali, S; Majidiyan, N; Azadikhah, D; Varcheh, M; Tresnakova, N; Faggio, C	Water	2022	14	10.3390/w14091357	8	3.53	**10.075**
4.7	Effects of different pharmaceutical residues on embryos of fish species native to Central Europe	Medkova, D; Lakdawala, P; Hodkovicova, N; Blahova, J; Faldyna, M; Mares, J; Vaclavik, J; Doubkova, V; Hollerova, A; Svobodova, Z	Chemosphere	2022	291	10.1016/j.chemosphere.2021.132915	8	8.943	**23.608**
4.8	Characterization and immunomodulatory effect of an alkali-extracted galactomannan from Morchella esculenta	Zhang, NN; Ma, H; Zhang, ZF; Zhang, WN; Chen, L; Pan, WJ; Wu, QX; Lu, YM; Chen, Y	Carbohydrate Polymers	2022	278	10.1016/j.carbpol.2021.118960	8	10.723	**28.058**
4.9	Induction of lipid metabolism dysfunction, oxidative stress and inflammation response by tris(1-chloro-2-propyl)phosphate in larval/adult zebrafish	Yan, J; Zhao, ZJ; Xia, M; Chen, SY; Wan, XC; He, AF; Sheng, GD; Wang, XD; Qian, QH; Wang, HL	Environment International	2022	160	10.1016/j.envint.2022.107081	8	13.352	**34.630**
4.10.	Vitamin C Mitigates Oxidative Stress and Behavioral Impairments Induced by Deltamethrin and Lead Toxicity in Zebrafish	Paduraru, E; Flocea, EI; Lazado, CC; Simionov, IA; Nicoara, M; Ciobica, A; Faggio, C; Jijie, R	International Journal Of Molecular Sciences	2021	22	10.3390/ijms222312714	8	6.208	**0.000**
4.11	Interactions and associated resistance development mechanisms between microplastics, antibiotics and heavy metals in the aquaculture environment	Li, Z; Junaid, M; Chen, GL; Wang, J	Reviews In Aquaculture	2022	14	10.1111/raq.12639	8	10.618	**27.795**
4.12	Embryotoxicity of Selective Serotonin Reuptake Inhibitors-Comparative Sensitivity of Zebrafish (Danio rerio) and African Clawed Frog (Xenopus laevis)	Blahova, J; Doubkova, V; Plhalova, L; Lakdawala, P; Medkova, D; Vecerek, V; Svobodova, Z; Faggio, C	Applied Sciences-Basel	2021	11	10.3390/app112110015	8	2.838	**8.345**

	Embryos								
4.13	Prescribed aggression of fishes: Pharmaceuticals modify aggression in environmentally relevant concentrations	Huben, P; Horky, P; Grabic, R; Grabicov, K; Douda, K; Slavfk, O; Randak, T	Ecotoxicology And Environmental Safety	2021	227	10.1016/j.ecoenv.2021.112944	8	7.129	**19.073**
4.14	Updating the use of biochemical biomarkers in fish for the evaluation of alterations produced by pharmaceutical products	Gallego-Rios, SE; Penuela, GA; Martinez-Lopez, E	Environmental Toxicology And Pharmacology	2021	88	10.1016/j.etap.2021.103756	8	5.785	**15.713**
4.15	Integrative effects based on behavior, physiology and gene expression of tritiated water on zebrafish	Li, SR; Zhang, YF; Xue, HY; Zhang, QX; Chen, N; Wan, J; Sun, L; Chen, Q; Zong, Y; Zhuang, FH; Gu, PC; Zhang, AQ; Cui, FM; Tu, Y	Ecotoxicology And Environmental Safety	2021	225	10.1016/j.ecoenv.2021.112770	8	7.129	**19.073**
4.16	Insulin-Mimic Components in Acer truncatum Leaves: Bio-Guided Isolation, Annual Variance Profiling and Regulating Pathway Investigated by Omics	Zhang, XY; Liu, YH; Liu, DZ; Xu, JY; Zhang, Q	Pharmaceuticals	2021	14	10.3390/ph14070662	8	5.215	**14.288**
5	Preliminary investigation of lower Danube pollution caused by potentially toxic metals	I. A. Simionov, D. S. Cristea, S. M. Petrea, A. Mogodan, M. Nicoara, G. Pavan, E. S. Baltag, **R. Jijie**, S. A. Strungaru,	Chemosphere	2021	264	10.1016/j.chemosphere.2020.128496	9	8.943	**92.122**
5.1	Analysis of Surface Water Quality and Sediments Content on Danube Basin in Djerdap-Iron Gate Protected Areas	Popescu, F; Trumic, M; Cioabla, AE; Vujic, B; Stoica, V; Trumic, M; Opris, C; Bogdanovic, G; Trif-Tordai, G	Water	2022	14	10.3390/w14192991	9	3.53	**8.956**
5.2	A 600 years sediment record of heavy metal pollution history in the Danube Delta	Marcel, M; Aritina, H; Weiguo, Z; Laurent, C; Jean-Michel, C; Tiberiu, G; Philippe, V; Sun, QL; Nian, XM; Ionela, G	Science Of The Total Environment	2022	823	10.1016/j.scitotenv.2022.153702	9	10.753	**25.007**
5.3	Developmental exposure to environmental levels of cadmium induces neurotoxicity and activates microglia in zebrafish larvae: From the perspectives of neurobehavior and neuroimaging	Xu, YY; Zhao, HY; Wang, Z; Gao, H; Liu, JR; Li, KM; Song, Z; Yuan, C; Lan, XY; Pan, CY; Zhang, SX	Chemosphere	2022	291	10.1016/j.chemosphere.2021.132802	9	8.943	**20.984**
5.4	Re-Use of Silico-Manganese Slag	Buruiana, DL; Obreja, CD;	Sustainability	2021	13	10.3390/su1	9	3.889	**9.753**

		Herbei, EE; Ghisman, V				32111771			
5.5	Emerging and Persistent Pollutants in the Aquatic Ecosystems of the Lower Danube Basin and North West Black Sea Region-A Review	Chitescu, CL; Ene, A; Geana, EI; Vasile, AM; Ciucure, CT	Applied Sciences-Basel	2021	11	10.3390/app11209721	9	2.838	**7.418**
5.6	Predictive Innovative Methods for Aquatic Heavy Metals Pollution Based on Bioindicators in Support of Blue Economy in the Danube River Basin	Simionov, IA; Cristea, DS; Petrea, SM; Mogodan, A; Jijie, R; Ciornea, E; Nicoara, M; Rahoveanu, MMT; Cristea, V	Sustainability	2021	13	10.3390/su13168936	9		**0.000**
5.7	Modeling and Assessing the Spatial and Vertical Distributions of Potentially Toxic Elements in Soil and How the Concentrations Differ	Ahado, SK; Nwaogu, C; Sarkodie, VYO; Boruvka, L	Toxics	2021	9	10.3390/toxics9080181	9	4.472	**11.049**
5.8	Assessment of Heavy Metal Pollution Levels in Sediments and of Ecological Risk by Quality Indices, Applying a Case Study: The Lower Danube River, Romania	Calmuc, VA; Calmuc, M; Arseni, M; Topa, CM; Timofti, M; Burada, A; Iticescu, C; Georgescu, LP	Water	2021	13	10.3390/w13131801	9	3.53	**8.956**
6	The Possible Role of Bifidobacterium longum BB536 and Lactobacillus rhamnosus HN001 on Locomotor Activity and Oxidative Stress in a Rotenone-Induced Zebrafish Model of Parkinson's Disease	O. D. Ilie, E. Paduraru, M. A. Robea, I. M. Balmus, **R. Jijie**, M. Nicoara, A. Ciobica, I. B. Nita, R. Dobrin and B. Doroftei	Oxidative Medicine and Cellular Longevity	2021		10.1155/2021/9629102	10	7.31	**23.358**
6.1	Neuroprotective Effects of Bifidobacterium breve CCFM1067 in MPTP-Induced Mouse Models of Parkinson's Disease	Li, TT; Chu, CQ; Yu, LL; Zhai, QX; Wang, SH; Zhao, JX; Zhang, H; Chen, W; Tian, FW	Nutrients	2022	14	10.3390/nu14214678	10	6.706	**14.412**
6.2	Assessing the Neurotoxicity of a Sub-Optimal Dose of Rotenone in Zebrafish (Danio rerio) and the Possible Neuroactive Potential of Valproic Acid, Combination of Levodopa and Carbidopa, and Lactic Acid Bacteria Strains	Ilie, OD; Duta, R; Balmus, IM; Savuca, A; Petrovici, A; Nita, IB; Antoci, LM; Jijie, R; Mihai, CT; Ciobica, A; Nicoara, M; Popescu, R; Dobrin, R; Solcan, C; Trifan, A; Stanciu, C; Doroftei, B	Antioxidants	2022	11	10.3390/antiox11102040	10		**0.000**
6.3	Dopamine Release Impairments Accompany Locomotor and Cognitive Deficiencies in	Hettiarachchi, P; Niyangoda, SS; Jarosova, R; Johnson, MA	Chemical Research In Toxicology	2022		10.1021/acs.chemrestox.2c00150	10	3.973	**8.946**

	Rotenone-Treated Parkinson?s Disease Model Zebrafish								
6.4	Assessing Anti-Social and Aggressive Behavior in a Zebrafish (Danio rerio) Model of Parkinson's Disease Chronically Exposed to Rotenone	Ilie, OD; Duta, R; Jijie, R; Nita, IB; Nicoara, M; Faggio, C; Dobrin, R; Mavroudis, I; Ciobica, A; Doroftei, B	Brain Sciences	2022	12	10.3390/brainsci12070898	10		**0.000**
7	Graphene oxide chemically reduced and functionalized with KOH-PEI for efficient Cr(VI) adsorption and reduction in acidic medium	Y. Tadjenanta, N. Dokhan, A. Barrasa, A. Addad, **R. Jijie**, S. Szunerits, R. Boukherroub	Chemosphere	2020	258	10.1016/j.chemosphere.2020.127316	7	7.086	**924.320**
7.1	Efficient chromium (VI) removal from wastewater by adsorption-assisted photocatalysis using MXene	Jamaluddin, NS; Alias, NH; Samitsu, S; Othman, NH; Jaafar, J; Marpani, F; Lau, WJ; Tan, YZ	Journal Of Environmental Chemical Engineering	2022	10	10.1016/j.jece.2022.108665	7	7.968	**24.194**
7.2	Electrospun Cellulose Acetate/Polyethylenimine Porous Fibers toward Highly Efficient Removal of Cr(VI)	Luo, D; Hu, SZ; Huang, T; Zhang, N; Lei, YZ; Wang, Y	Acs Applied Polymer Materials	2022	4	10.1021/acsapm.1c00836	7	4.855	**15.300**
7.3	Single-atom substitution in donor-acceptor covalent organic frameworks for tunable visible light photocatalytic Cr(vi) reduction	Yue, JY; Wang, YT; Ding, XL; Fan, YF; Song, LP; Yang, P; Ma, Y; Tang, B	Materials Chemistry Frontiers	2022		10.1039/d2qm00880g	7	8.683	**26.237**
7.4	Electrochemical reduction of Cr (VI) using a palladium/graphene modified stainless steel electrode	Ma, WQ; Liu, YB; Zhang, SH	Water Science And Technology	2022	86	10.2166/wst.2022.348	7	2.43	**8.371**
7.5	Evaluation of the use of adsorbents based on graphene oxide and cellulose for Cr(VI) adsorption	Fantinel, LA; Bonetto, LR; Baldasso, C; Poletto, M	Chemical Engineering Communications	2022		10.1080/00986445.2022.2132152	7	2.586	**8.817**
7.6	Enhanced removal of Cr(VI) from wastewater by dielectric barrier discharge plasma coupled with TiO2/rGO nanocomposites: Catalytic performance and reduction mechanism	Peng, HY; Duan, LJ; Xie, WM; Cao, HY; Shao, CR; Rao, S; Wang, DX; Zhang, KF; Lv, WD	Separation And Purification Technology	2022	298	10.1016/j.seppur.2022.121609	7	9.136	**27.531**
7.7	Batch and continuous studies on adsorptive removal of hexavalent chromium [Cr(VI)] using reduced graphene oxide	Rout, DR; Jena, HM	Journal Of The Chinese Chemical Society	2022	69	10.1002/jccs.202200294	7	1.753	**6.437**

7.8	Removal of Cr(VI) from aqueous solutions using polyamidoamine dendrimer-modified biochar	Li, J; He, JT; Huang, JH; Zhao, Q; Li, YJ; Tian, SL	Desalination And Water Treatment	2022	270	10.5004/dwt.2022.28764	7	1.273	**5.066**
7.9	Scavenging of hexavalent chromium from aqueous solution by Macadamia nutshell biomass modified with diethylenetriamine and maleic anhydride	Koya, ADA; Qhubu, MC; Moyo, M; Pakade, VE	Environmental Research	2022	212	10.1016/j.envres.2022.113445	7	8.431	**25.517**
7.10.	Electrochemical Reduction of Cr (VI) Using a Graphene-Modified Stainless Steel Electrode	Chen, L; Liu, YB; Zhang, SH	Journal Of The Electrochemical Society	2022	169	10.1149/1945-7111/ac876f	7	4.386	**13.960**
7.11	Construction of adsorbents with graphene and its derivatives for wastewater treatment: a review	Hu, HW; Wen, W; Ou, JZ	Environmental Science-Nano	2022	9	10.1039/d2en00248e	7	9.473	**28.494**
7.12	Adsorption-reduction of Cr(VI) onto unmodified and phytic acid-modified carob waste: Kinetic and isotherm modeling	Bouaouina, K; Barras, A; Bezzi, N; Amin, MA; Szunerits, S; Boukherroub, R	Chemosphere	2022	297	10.1016/j.chemosphere.2022.134188	7	8.943	**26.980**
7.13	Photoreduction of Cr(VI) in wastewater by anodic nanoporous Nb2O5 formed at high anodizing voltage and electrolyte temperature	Alias, N; Hussain, Z; Tan, WK; Kawamura, G; Muto, H; Matsuda, A; Lockman, Z	Environmental Science And Pollution Research	2022	29	10.1007/s11356-022-20005-7	7	5.19	**16.257**
7.15	A comprehensive review on emerging natural and tailored materials for chromium-contaminated water treatment and environmental remediation	Xing, XW; Alharbi, NS; Ren, XM; Chen, CL	Journal Of Environmental Chemical Engineering	2022	10	10.1016/j.jece.2022.107325	7	7.968	**24.194**
7.16	Simultaneous removal of Congo red and Cr(VI) using amino-modified GO/MS composite materials	Cheng, L; Zhang, L; Wang, HX; Song, FX	Korean Journal Of Chemical Engineering	2022	39	10.1007/s11814-021-1031-x	7	3.146	**10.417**
7.17	Synthesis and validation of polystyrene-based polyethylenimine composite for Cr(VI) removal from aqueous solution: Performance and mechanism	Verma, R; Maji, PK; Sarkar, S	Journal Of Environmental Chemical Engineering	2022	10	10.1016/j.jece.2021.107119	7	7.968	**24.194**
7.18	An Electrochemical Immunosensor Based on SPA and rGO-PEI-Ag-Nf for the Detection of Arsanilic Acid	Wang, YW; Ma, DD; Zhang, GP; Wang, XN; Zhou, JM; Chen, YM; You, XJ; Liang, C; Qi, YH; Li, YY; Wang, AP	Molecules	2022	27	10.3390/molecules27010172	7	6.978	**21.366**

7.19	Adsorption of Cr(VI) on Ultrafine Al2O3-doped MnFe2O4 nanocomposite surface: Experimental and theoretical study using double-layer modeling	Kondalkar, M; Fegade, U; Inamuddin; Kanchi, S; Altalhi, T; Suryawanshi, KE; Patil, AM	Journal Of Physics And Chemistry Of Solids	2022	163	10.1016/j.jpcs.2021.110544	7	4.383	**13.951**
7.20.	Highly efficient Cr(VI) remediation by cationic functionalized nanocellulose beads	Kim, Y; Park, J; Bang, J; Kim, J; Jin, HJ; Kwak, HW	Journal Of Hazardous Materials	2022	426	10.1016/j.jhazmat.2021.128078	7	14.224	**42.069**
7.21	Hexavalent chromium removal from aqueous solutions using biogenic iron nanoparticles: Kinetics and equilibrium study	Prema, P; Nguyen, VH; Venkatachalam, K; Murugan, JM; Ali, HM; Salem, MZM; Ravindran, B; Balaji, P	Environmental Research	2022	205	10.1016/j.envres.2021.112477	7	3.737	**12.106**
7.22	Thermodynamic parameters of liquid-phase adsorption process calculated from different equilibrium constants related to adsorption isotherms: A comparison study	Tran, HN; Lima, EC; Juang, RS; Bollinger, JC; Chao, HP	Journal Of Environmental Chemical Engineering	2021	9	10.1016/j.jece.2021.106674	7	7.968	**24.194**
7.23	Insight into the performance and mechanism of persimmon tannin functionalized waste paper for U(VI) and Cr(VI) removal	Liu, FL; Hua, S; Wang, C; Hu, BW	Chemosphere	2022	287	10.1016/j.chemosphere.2021.132199	7	8.943	**26.980**
7.24	Bimetallic FeNi nanoparticles immobilized by biomass-derived hierarchically porous carbon for efficient removal of Cr(VI) from aqueous solution	Wang, H; Zhuang, M; Shan, L; Wu, J; Quan, GX; Cui, LQ; Zhang, YH; Yan, JL	Journal Of Hazardous Materials	2022	423	10.1016/j.jhazmat.2021.127098	7	14.224	**42.069**
7.25	Polydopamine-assisted polyethylenimine grafting melamine foam and the application in wastewater purification	Huang, T; Cao, S; Luo, D; Zhang, N; Lei, YZ; Wang, Y	Chemosphere	2022	287	10.1016/j.chemosphere.2021.132054	7	8.943	**26.980**
7.26	Iron-Zinc Impregnated Biochar Composite as a Promising Adsorbent for Toxic Hexavalent Chromium Remediation: Kinetics, Isotherms and Thermodynamics	Qhubu, MC; Methula, B; Xaba, T; Moyo, M; Pakade, VE	Chemistry Africa-A Journal Of The Tunisian Chemical Society	2022		10.1007/s42250-021-00273-5	7	0	**0.000**
7.27	Sustainable removal of Cr(VI) using graphene oxide-zinc oxide nanohybrid: Adsorption kinetics, isotherms and thermodynamics	Singh, S; Anil, AG; Khasnabis, S; Kumar, V; Nath, B; Adiga, V; Naik, TSSK; Subramanian, S;	Environmental Research	2022	203	10.1016/j.envres.2021.111891	7	8.431	**25.517**

		Kumar, V; Singh, J; Ramamurthy, PC							
7.28	A novel 3D superelastic polyethyleneimine functionalized chitosan aerogels for selective removal of Cr(VI) from aqueous solution: performance and mechanisms	Wang, QY; Tian, Y; Kong, LC; Zhang, J; Zuo, W; Li, YC; Cai, GY	Chemical Engineering Journal	2021	425	10.1016/j.cej.2021.131722	7	4.446	**14.131**
7.29	Efficient detoxification of Cr(VI)-containing effluents by sequential adsorption and reduction using a novel cysteine-doped PANi@faujasite composite: Experimental study supported by advanced statistical physics prediction	Laabd, M; Imgharn, A; Hsini, A; Naciri, Y; Mobarak, M; Szunerits, S; Boukherroub, R; Albourine, A	Journal Of Hazardous Materials	2022	422	10.1016/j.jhazmat.2021.126857	7	14.224	**42.069**
7.30.	Anchoring DTPA grafted PEI onto carboxylated graphene oxide to effectively remove both heavy metal ions and dyes from wastewater with robust stability	Xi, JF; Zhang, LY; Zheng, WT; Zeng, QL; He, Y; He, Z; Chen, JY	Journal Of Materials Science	2021	56	10.1007/s10853-021-06397-w	7	4.682	**14.806**
7.31	Cobalt sulfide-reduced graphene oxide: An efficient catalyst for the degradation of rhodamine B and pentachlorophenol using peroxymonosulfate	Amirache, L; Barka-Bouaifel, F; Borthakur, P; Das, MR; Ahouari, H; Barras, A; Ouddane, B; Szunerits, S; Boukherroub, R	Journal Of Environmental Chemical Engineering	2021	9	10.1016/j.jece.2021.106018	7	7.968	**24.194**
7.32	Development of a novel PANI@WO3 hybrid composite and its application as a promising adsorbent for Cr(VI) ions removal	Hsini, A; Naciri, Y; Laabd, M; Bouziani, A; Navio, JA; Puga, F; Boukherroub, R; Lakhmiri, R; Albourine, A	Journal Of Environmental Chemical Engineering	2021	9	10.1016/j.jece.2021.105885	7	7.968	**24.194**
7.33	Fabrication of highly efficient magnesium silicate and its adsorption behavior towards Cr(VI)	Wang, XK; Wang, JS; Teng, WL; Du, YC; Wu, JS; Guo, F; Chen, BB	Microporous And Mesoporous Materials	2021	323	10.1016/j.micromeso.2021.111196	7	5.876	**18.217**
7.34	Graphene-based (nano)catalysts for the reduction of Cr(VI): A review	Besharat, F; Ahmadpoor, F; Nasrollahzadeh, M	Journal Of Molecular Liquids	2021	334	10.1016/j.molliq.2021.116123	7	6.633	**20.380**
7.35	Insights into the removal of Cr(VI) from aqueous solution using plant-mediated biosynthesis of iron nanoparticles	Hao, RQ; Li, D; Zhang, J	Environmental Technology & Innovation	2021	23	10.1016/j.eti.2021.101566	7	7.758	**23.594**

7.36	Efficient adsorption-reduction synergistic effects of sulfur, nitrogen and oxygen heteroatom co-doped porous carbon spheres for chromium (VI) removal	Li, HY; Li, N; Zuo, PP; Qu, SJ; Shen, WZ	Colloids And Surfaces A-Physicochemical And Engineering Aspects	2021	618	10.1016/j.colsurfa.2021.126502	7	5.518	**17.194**
7.37	Facile synthesis and characterization of a novel 1,2,4,5-benzene tetracarboxylic acid doped polyaniline@zinc phosphate nanocomposite for highly efficient removal of hazardous hexavalent chromium ions from water	Hsini, A; Naciri, Y; Benafqir, M; Ajmal, Z; Aarab, N; Laabd, M; Navio, JA; Puga, F; Boukherroub, R; Bakiz, B; Albourine, A	Journal Of Colloid And Interface Science	2021	585	10.1016/j.jcis.2020.10.036	7	9.965	**29.900**
7.38	Polyethyleneimine-grafted polysilsesquioxane hollow spheres for the highly efficient removal of anionic dyes and selective adsorption of Cr(VI)	Yan, YZ; Nagappan, S; Yoo, JM; Nechikkattu, R; Park, SS; Ha, CS	Journal Of Environmental Chemical Engineering	2021	9	10.1016/j.jece.2020.104814	7	7.968	**24.194**
7.39	Simultaneous photocatalytic Cr(VI) reduction and phenol degradation over copper sulphide-reduced graphene oxide nanocomposite under visible light irradiation: Performance and reaction mechanism	Cherifi, Y; Barras, A; Addad, A; Ouddane, B; Roussel, P; Chaouchi, A; Szunerits, S; Boukherroub, R	Chemosphere	2021	268	10.1016/j.chemosphere.2020.128798	7	8.943	**26.980**
7.4	Urchin-Like Bi2S3/Ag Nanostructures for Photocatalytic Reduction of Cr(VI)	Cao, JY; He, JH; Ye, J; Ge, K; Zhang, Y; Yang, YF	Acs Applied Nano Materials	2021	4	10.1021/acsanm.0c02858	7	6.14	**18.971**
7.41	Tea waste based natural adsorbent for toxic pollutant removal from waste samples	Kabir, MM; Mouna, SSP; Akter, S; Khandaker, S; Didar-ul-Alam, M; Bahadur, NM; Mohinuzzaman, M; Islam, A; Shenashen, MA	Journal Of Molecular Liquids	2021	322	10.1016/j.molliq.2020.115012	7	6.633	**20.380**
7.42	Sulfate radical anion activated agro-industrial residues for Cr(VI) adsorption: is this activation process technically and economically feasible?	Rangel, AV; Becerra, MG; Guerrero-Amaya, H; Ballesteros, LM; Mercado, DF	Journal Of Cleaner Production	2021	289	10.1016/j.jclepro.2021.125793	7	11.072	**33.063**
7.43	Enhancement of the chromium removal behavior of Moringa oleifera activated carbon by	Bahador, F; Foroutan, R; Esmaeili, H; Ramavandi, B	Carbohydrate Polymers	2021	251	10.1016/j.carbpol.2020.117085	7	10.723	**32.066**

	chitosan and iron oxide nanoparticles from water								
7.44	Imidazolium functionalized cellulose filter paper derived from waste newspaper and its application in removal of chromium(VI)	Song, WQ; Yang, MX; Zhao, YZ; Zhu, M; Zhu, YF; Ren, HP; Tian, SP; Miao, ZC; Qian, LW	Reactive & Functional Polymers	2020	157	10.1016/j.reactfunctpolym.2020.104776	7	3.975	**12.786**
8	Vitamin C Attenuates Oxidative Stress and Behavioral Abnormalities Triggered by Fipronil and Pyriproxyfen Insecticide Chronic Exposure on Zebrafish Juvenile	M. A. Robea**, R. Jijie**, M. Nicoara, G. Plavan, A. S. Ciobica, C. Solcan, G. Audira, C. Hsiao, S. A. Strungaru	Antioxidants	2020	9	17	9	**7**	**102.536**
8.1	Potassium perchlorate effects on primordial germ cells of developing medaka larvae	Reh, B; Wang, XG; Feng, YS; Bhandari, RK	Aquatic Toxicology	2022	251	10.1016/j.aquatox.2022.106283	9	5.202	**12.671**
8.2	Enhanced Removal of Free Radicals by Aqueous Hydrogen Nanobubbles and Their Role in Oxidative Stress	Zhang, Y; Fan, WH; Li, XM; Wang, WX; Liu, S	Environmental Science & Technology	2022	56	10.1021/acs.est.2c03707	9	11.357	**26.349**
8.3	In vitro screening of genotoxicity and mutagenicity of pyriproxyfen in human lymphocytes and Salmonella typhimurium TA98 and TA100 strains	Bugda, H; Ezer, BG; Rencuzogullari, E	Drug And Chemical Toxicology	2022		10.1080/01480545.2022.2113096	9	2.597	**6.882**
8.4	Evaluation of DNA Damage, Biomarkers of Oxidative Stress, and Status of Antioxidant Enzymes in Freshwater Fish (Labeo rohita) Exposed to Pyriproxyfen	Li, XW; Naseem, S; Hussain, R; Ghaffar, A; Li, K; Khan, A	Oxidative Medicine And Cellular Longevity	2022	2022	10.1155/2022/5859266	9	7.31	**17.356**
8.5	The effectiveness of vitamin Con quinalphos ileal toxicity: a study of histological, ultrastructural, and oxidative stress markers	Zaki, MSA; El-kott, AF; AlGwaiz, HIM; Sideeg, AM; Andarawi, M; Eid, RA	Environmental Science And Pollution Research	2022	29	10.1007/s11356-022-19820-9	9	5.19	**12.644**
8.6	Vitamin C Mitigates Oxidative Stress and Behavioral Impairments Induced by Deltamethrin and Lead Toxicity in Zebrafish	Paduraru, E; Flocea, EI; Lazado, CC; Simionov, IA; Nicoara, M; Ciobica, A; Faggio, C; Jijie, R	International Journal Of Molecular Sciences	2021	22	10.3390/ijms222312714	9		**0.000**
8.7	The Possible Role of Bifidobacterium longum BB536 and Lactobacillus rhamnosus	Ilie, OD; Paduraru, E; Robea, MA; Balmus, IM; Jijie, R; Nicoara, M; Ciobica, A; Nita,	Oxidative Medicine And Cellular Longevity	2021	2021	10.1155/2021/9629102	9		**0.000**

	HN001 on Locomotor Activity and Oxidative Stress in a Rotenone-Induced Zebrafish Model of Parkinson's Disease	IB; Dobrin, R; Doroftei, B							
8.8	Predictive Innovative Methods for Aquatic Heavy Metals Pollution Based on Bioindicators in Support of Blue Economy in the Danube River Basin	Simionov, IA; Cristea, DS; Petrea, SM; Mogodan, A; Jijie, R; Ciornea, E; Nicoara, M; Rahoveanu, MMT; Cristea, V	Sustainability	2021	13	10.3390/su13168936	9		**0.000**
8.9	Plasma Vitamin C and Risk of Late Graft Failure in Kidney Transplant Recipients: Results of the TransplantLines Biobank and Cohort Study	Sotomayor, CG; Bustos, NI; Yepes-Calderon, M; Arauna, D; de Borst, MH; Berger, SP; Rodrigo, R; Dullaart, RPF; Navis, GJ; Bakker, SJL	Antioxidants	2021	10	10.3390/antiox10050631	9	7.675	**18.167**
8.10.	Autism - A Comprehensive Array of Prominent Signs and Symptoms	Nadeem, MS; Murtaza, BN; Al-Ghamdi, MA; Ali, A; Zamzami, MA; Khan, JA; Ahmad, A; Rehman, MU; Kazmi, I	Current Pharmaceutical Design	2021	27	10.2174/1381612827666210120095829	9	3.31	**8.467**
9	Preliminary Study on the Tears Oxidative Stress Status and Sleep Disturbances in Irritable Bowel Syndrome Patients	M. Balmus, R. O. Cojocariu, A Ciobica, S. Strungaru, **R. Strungaru-Jijie,** A. Cantemir, C. Galatanu, L. Gorgan,	Oxidative Medicine and Cellular Longevity	2020		10.1155/2020/4690713	8	6.543	**52.963**
9.1	ROS-responsive thioketal-linked alginate/chitosan carriers for irritable bowel syndrome with diarrhea therapy	Zhang, HY; Zhang, Y; Zhang, Y; Jiang, ZP; Cui, YL; Wang, QS	International Journal Of Biological Macromolecules	2022	209	10.1016/j.ijbiomac.2022.03.118	8	8.025	**21.313**
9.2	High Level of Inflammatory Cytokines in the Tears: A Bridge of Patients with Concomitant Exotropia and Dry Eye	Gao, F; Hong, XP; Ding, FD; Huang, SR; Lian, W; Wang, HJ; Zheng, WD; Ni, J; Chen, M; Liu, QC	Oxidative Medicine And Cellular Longevity	2021	2021	10.1155/2021/5662550	8	7.31	**19.525**
9.3	Chronic stress and poor sleeping habits are associated with self-reported IBS and poor psychological well-being in the general population	Zejnelagic, J; Ohlsson, B	Bmc Research Notes	2021	14	10.1186/s13104-021-05688-4	8		**0.000**
9.4	Water-Based Extraction of Bioactive Principles from Blackcurrant Leaves and Chrysanthellum americanum: A	Cao-Ngoc, P; Leclercq, L; Rossi, JC; Hertzog, J; Tixier, AS; Chemat, F; Nasreddine, R; Banni, GAD; Nehme, R;	Foods	2020	9	10.3390/foods9101478	8	4.35	**12.125**

	Comparative Study	Schmitt-Kopplin, P; Cottet, H							
10	Antagonistic effects in zebrafish (Danio rerio) behavior and oxidative stress induced by toxic metals and deltamethrin acute exposure	**R. Jijie**, G. Solcan, M Nicoara, D. Micu, S. A. Strungaru,	Science of the Total Environment	2020	698	12	5	**31**	**848.232**
10.1	Distribution of metals in different environmental compartments and oxidative stress biomarkers in Bryconops caudomaculatus (Osteichthyes: Characiformes) from a bauxite mining area in the Eastern Amazon	Cantanhe, SM; Carvalho, ISCD; Adolfo, FR; Leal, G; Reis, GM; Carvalho, LMD; Montag, LFD; Amado, LL	Environmental Research	2023	216	10.1016/j.envres.2022.114391	5	8.431	**35.724**
10.2	Engineered microbes as effective tools for the remediation of polyaromatic aromatic hydrocarbons and heavy metals	Sharma, P; Bano, A; Singh, SP; Sharma, S; Xia, CL; Nadda, AK; Lam, SS; Tong, YW	Chemosphere	2022	306	10.1016/j.chemosphere.2022.135538	5	8.943	**37.772**
10.3	Cyanotoxins and water quality parameters as risk assessment indicators for aquatic life in reservoirs	Passos, LS; de Almeida, EC; Villela, A; Fernandes, AN; Marinho, MM; Gomes, LC; Pinto, E	Ecotoxicology And Environmental Safety	2022	241	10.1016/j.ecoenv.2022.113828	5	7.129	**30.516**
10.4	The heart as a target for deltamethrin toxicity: Inhibition of Nrf2/HO-1 pathway induces oxidative stress and results in inflammation and apoptosis	Yang, X; Fang, Y; Hou, JB; Wang, XJ; Li, JY; Li, SY; Zheng, XY; Liu, Y; Zhang, ZG	Chemosphere	2022	300	10.1016/j.chemosphere.2022.134479	5	8.943	**37.772**
10.5	Assessing Anti-Social and Aggressive Behavior in a Zebrafish (Danio rerio) Model of Parkinson's Disease Chronically Exposed to Rotenone	Ilie, OD; Duta, R; Jijie, R; Nita, IB; Nicoara, M; Faggio, C; Dobrin, R; Mavroudis, I; Ciobica, A; Doroftei, B	Brain Sciences	2022	12	10.3390/brainsci12070898	5		**0.000**
10.6	Investigating mitochondria-immune responses in zebrafish, Danio rerio (Hamilton, 1822): A case study with the herbicide dinoseb	Zhang, XJ; Ivantsova, E; Perez-Rodriguez, V; Cao, FJ; Ii, CLS; Martyniuk, CJ	Comparative Biochemistry And Physiology C-Toxicology & Pharmacology	2022	257	10.1016/j.cbpc.2022.109357	5	4.52	**20.080**
10.7	New evidence for neurobehavioral toxicity of deltamethrin at environmentally relevant levels in zebrafish	Lei, L; Zhu, BR; Qiao, K; Zhou, YX; Chen, XP; Men, J; Yang, LH; Wang, QD; Han, J; Zhou, BS	Science Of The Total Environment	2022	822	10.1016/j.scitotenv.2022.153623	5	10.753	**45.012**

10.8	Impacts of tailings of Fundao dam (Brazil) rupture on marine fish: Metals bioaccumulation and physiological responses	Bevitorio, LZ; da Silva, NG; Pirovani, JCM; Marques, JA; Vieira, CED; Zebral, YD; Damasceno, EM; Lopes, LLR; de Sant'Ana, LP; Marube, LC; da Costa, SR; Martins, CDG; Sandrini, JZ; Souza, MM; Bianchini, A; do Vale-Oliveira, M	Marine Pollution Bulletin	2022	177	10.1016/j.marpolbul.2022.113511	5	7.001	**30.004**
10.9	Interference with zinc homeostasis and oxidative stress induction as probable mechanisms for cadmium-induced embryo-toxicity in zebrafish	Chouchene, L; Kessabi, K; Gueguen, MM; Kah, O; Pakdel, F; Messaoudi, I	Environmental Science And Pollution Research	2022	29	10.1007/s11356-022-18957-x	5	5.19	**22.760**
10.10.	Seasonality effects on the metal concentration and biochemical changes in Astyanax lacustris (Teleostei: Characiformes) from Doce River after the collapse of the Fundao dam in Mariana, Brazil	Mercon, J; Cabral, DS; Teixeira, BC; Pereira, TM; Bona, AM; Armin, CVL; Agostinho, SGD; Vasconcelos, CM; Gomes, LC	Environmental Toxicology And Pharmacology	2022	89	10.1016/j.etap.2021.103777	5	5.785	**25.140**
10.11	Vitamin C Mitigates Oxidative Stress and Behavioral Impairments Induced by Deltamethrin and Lead Toxicity in Zebrafish	Paduraru, E; Flocea, EI; Lazado, CC; Simionov, IA; Nicoara, M; Ciobica, A; Faggio, C; Jijie, R	International Journal Of Molecular Sciences	2021	22	10.3390/ijms222312714	5		**0.000**
10.12	Effects of common environmental endocrine-disrupting chemicals on zebrafish behavior	Tao, Y; Li, ZX; Yang, Y; Jiao, YQ; Qu, JH; Wang, YF; Zhang, Y	Water Research	2022	208	10.1016/j.watres.2021.117826	5	13.4	**55.600**
10.13	Combined toxicity of polystyrene microplastics and sulfamethoxazole on zebrafish embryos	Lu, JR; Wu, J; Gong, LL; Cheng, Y; Yuan, QB; He, YD	Environmental Science And Pollution Research	2022	29	10.1007/s11356-021-17198-8	5	5.19	**22.760**
10.14	Prescribed aggression of fishes: Pharmaceuticals modify aggression in environmentally relevant concentrations	Huben, P; Horky, P; Grabic, R; Grabicov, K; Douda, K; Slavfk, O; Randak, T	Ecotoxicology And Environmental Safety	2021	227	10.1016/j.ecoenv.2021.112944	5	7.129	**30.516**
10.15	Influence of salinity on the toxicity of copper and cadmium to Zebrafish embryos	Santos, B; Andrade, T; Domingues, I; Ribeiro, R; Soares, AMVM; Lopes, I	Aquatic Toxicology	2021	241	10.1016/j.aquatox.2021.106003	5	5.202	**22.808**
10.16	The Possible Role of Bifidobacterium longum BB536 and Lactobacillus rhamnosus	Ilie, OD; Paduraru, E; Robea, MA; Balmus, IM; Jijie, R; Nicoara, M; Ciobica, A; Nita,	Oxidative Medicine And Cellular Longevity	2021	2021	10.1155/2021/9629102	5		**0.000**

	HN001 on Locomotor Activity and Oxidative Stress in a Rotenone-Induced Zebrafish Model of Parkinson's Disease	IB; Dobrin, R; Doroftei, B							
10.17	Swimming behaviour in two ecologically similar three-spined (Gasterosteus aculeatus L.) and nine-spined sticklebacks (Pungitius pungitius L.): a comparative approach for modelling the toxicity of metal mixtures	Makaras, T; Stankeviciute, M	Environmental Science And Pollution Research	2022	29	10.1007/s11356-021-16783-1	5	5.19	**22.760**
10.18	Heavy metal pollution in coastal wetlands: A systematic review of studies globally over the past three decades	Li, CM; Wang, HC; Liao, XL; Xiao, R; Liu, KH; Bai, JH; Li, B; He, Q	Journal Of Hazardous Materials	2022	424	10.1016/j.jhazmat.2021.127312	5	14.224	**58.896**
10.19	Residual chlorine disrupts the microbial communities and spreads antibiotic resistance in freshwater	Zhang, ZY; Zhang, Q; Lu, T; Zhang, JY; Sun, LW; Hu, BL; Hu, J; Penuelas, J; Zhu, LZ; Qian, HF	Journal Of Hazardous Materials	2022	423	10.1016/j.jhazmat.2021.127152	5	14.224	**58.896**
10.20.	Effects of acute deltamethrin exposure on kidney transcriptome and intestinal microbiota in goldfish (Carassius auratus)	Zhou, S; Dong, J; Liu, YT; Yang, QH; Xu, N; Yang, YB; Ai, XH	Ecotoxicology And Environmental Safety	2021	225	10.1016/j.ecoenv.2021.112716	5	7.129	**30.516**
10.21	Defining drinking water metal contaminant mixture risk by coupling zebrafish behavioral analysis with citizen science	Babich, R; Craig, E; Muscat, A; Disney, J; Farrell, A; Silka, L; Jayasundara, N	Scientific Reports	2021	11	10.1038/s41598-021-96244-4	5	4.996	**21.984**
10.22	Predictive Innovative Methods for Aquatic Heavy Metals Pollution Based on Bioindicators in Support of Blue Economy in the Danube River Basin	Simionov, IA; Cristea, DS; Petrea, SM; Mogodan, A; Jijie, R; Ciornea, E; Nicoara, M; Rahoveanu, MMT; Cristea, V	Sustainability	2021	13	10.3390/su13168936	5		**0.000**
10.23	Genetically engineered microbial remediation of soils co-contaminated by heavy metals and polycyclic aromatic hydrocarbons: Advances and ecological risk assessment	Wu, C; Li, F; Yi, SW; Ge, F	Journal Of Environmental Management	2021	296	10.1016/j.jenvman.2021.113185	5	8.91	**37.640**
10.24	Zebrafish as a Screening Model to Study the Single and Joint Effects	Jijie, R; Mihalache, G; Balmus, IM; Strungaru, SA;	Pharmaceuticals	2021	14	10.3390/ph14060578	5		**0.000**

	of Antibiotics	Baltag, ES; Ciobica, A; Nicoara, M; Faggio, C							
10.25	Apoptosis, oxidative stress and genotoxicity in developing zebrafish after aluminium exposure	Capriello, T; Monteiro, SM; Felix, LM; Donizetti, A; Aliperti, V; Ferrandino, I	Aquatic Toxicology	2021	236	10.1016/j.aquatox.2021.105872	5	5.202	**22.808**
10.26	Exposure to aluminium causes behavioural alterations and oxidative stress in the brain of adult zebrafish	Capriello, T; Felix, LM; Monteiro, SM; Santos, D; Cofone, R; Ferrandino, I	Environmental Toxicology And Pharmacology	2021	85	10.1016/j.etap.2021.103636	5	5.785	**25.140**
10.27	The effect of combined exposure of zinc and nickel on the development of zebrafish	Yang, YM; Yu, Y; Zhou, R; Yang, Y; Bu, YQ	Journal Of Applied Toxicology	2021	41	10.1002/jat.4159	5	3.628	**16.512**
10.28	Effects of thymol and carvacrol anesthesia on the electrocardiographic and behavioral responses of the doctor fish Garra rufa	Aydin, B; Orhan, N	Aquaculture	2021	533	10.1016/j.aquaculture.2020.736134	5	5.135	**22.540**
10.29	Anaesthetic efficacy of eugenol in doctor fish (Garra rufa): Behavioural and cardiovascular responses	Aydin, B	Aquaculture Research	2020		10.1111/are.15049	5	2.082	**10.328**
10.30.	Effect of Cadmium and Nickel Exposure on Early Development in Zebrafish (Danio rerio) Embryos	Aldavood, SJ; Abbott, LC; Evans, ZR; Griffin, DJ; Lee, MD; Quintero-Arevalo, NM; Villalobos, AR	Water	2020	12	10.3390/w12113005	5	1.247	**6.988**
10.31	Vitamin C Attenuates Oxidative Stress and Behavioral Abnormalities Triggered by Fipronil and Pyriproxyfen Insecticide Chronic Exposure on Zebrafish Juvenile	Robea, MA; Jijie, R; Nicoara, M; Plavan, G; Ciobica, AS; Solcan, C; Audira, G; Hsiao, CD; Strungaru, SA	Antioxidants	2020	9	10.3390/antiox9100944	5		**0.000**
10.32	Zebrafish (Danio rerio) as an excellent vertebrate model for the development, reproductive, cardiovascular, and neural and ocular development toxicity study of hazardous chemicals	Shen, C; Zuo, ZH	Environmental Science And Pollution Research	2020	27	10.1007/s11356-020-10800-5	5	4.223	**18.892**
10.33	Is the Doce River elutriate or its water toxic to Astyanax lacustris (Teleostei: Characidae) three years	Passos, LS; Gnocchi, KG; Pereira, TM; Coppo, GC; Cabral, DS; Gomes, LC	Science Of The Total Environment	2020	736	10.1016/j.scitotenv.2020.139644	5	7.963	**33.852**

	after the Samarco mining dam collapse?								
10.34	Toxicological interactions of cadmium and four pesticides on early life stage of rare minnow (Gobiocypris rarus)	Wang, YH; Li, XF; Xu, C; Yang, GL; Wang, D; Wang, XQ; Wang, Q	Ecotoxicology	2020	29	10.1007/s10646-020-02269-2	5	2.823	**13.292**
10.35	Biomarkers of oxidative stress and cell damage in freshwater bivalves Diplodon parodizi exposed to landfill leachate	Prestes, JG; De Souza, MRDP; Kandalski, PK; Herrerias, T; Machado, C; Martins, ED; dos Anjos, VA; Neundorf, AKA; Pereira, DMC; Moura, MO; Donatti, L	Environmental Science And Pollution Research	2020	27	10.1007/s11356-020-08721-4	5	4.223	**18.892**
10.36	Heavy metal and pesticide exposure: A mixture of potential toxicity and carcinogenicity	Wallace, DR; Djordjevic, AB	Current Opinion In Toxicology	2020	19	10.1016/j.cotox.2020.01.001	5		**0.000**
10.37	Toxicity of Deltamethrin to Zebrafish Gonads Revealed by Cellular Biomarkers	Petrovici, A; Strungaru, SA; Nicoara, M; Robea, MA; Solcan, C; Faggio, C	Journal Of Marine Science And Engineering	2020	8	10.3390/jmse8020073	5	2.458	**11.832**
11	Mucin modified SPR interfaces for studying the effect of flow on pathogen binding to Atlantic salmon mucins	J. T. Pandra, Q. Pagneux, J. Bouckaert, **R. Jijie**, H. Sundh, R. Boukherroub, S. Szunerits, S.K. Linden	Biosensors And Bioelectronics	2019	146	10.1016/j.bios.2019.111736	8	10.257	**40.690**
11.1	Mucin O-glycosylation and pathogen binding ability differ between rainbow trout epithelial sites	Thomsson, KA; Benktander, J; Quintana-Hayashi, MP; Sharba, S; Linden, SK	Fish & Shellfish Immunology	2022	131	10.1016/j.fsi.2022.10.012	8	4.622	**12.805**
11.2	Glycocalyx Components Detune the Cellular Uptake of Gold Nanoparticles in a Size- and Charge-Dependent Manner	Peter, B; Kanyo, N; Kovacs, KD; Kovacs, V; Szekacs, I; Pecz, B; Molnar, K; Nakanishi, H; Lagzi, I; Horvath, R	Acs Applied Bio Materials	2022		10.1021/acsabm.2c00595	8	0	**0.000**
11.3	Review of Label-Free Monitoring of Bacteria: From Challenging Practical Applications to Basic Research Perspectives	Peter, B; Farkas, E; Kurunczi, S; Szittner, Z; Bosze, S; Ramsden, JJ; Szekacs, I; Horvath, R	Biosensors-Basel	2022	12	10.3390/bios12040188	8	5.743	**15.608**
11.4	Biological Activity of Porcine Gastric Mucin on Stress Resistance and Immunomodulation	Liyanage, TD; Dahanayake, PS; Edirisinghe, SL; Nikapitiya, C; Heo, GJ; De Zoysa, M; Whang, I	Molecules	2020	25	10.3390/molecules25132981	8	4.411	**12.278**
12	High performance silicon	Y. Bencheikh, M. Harnois, **R.**	Electrochimica Acta	2019	311	10.1016/j.ele	9	6.215	**285.636**

	nanowires/ruthenium nanoparticles micro-supercapacitors	**Jijie**, A. Addad, P. Roussel, S. Szunerits, T. Hadjersi, S. Abaidia, R. Boukherroub				ctacta.2019.04.083			
12.1	Synthesis of spongy Mn nanoparticles by electroless reduction for solid-state flexible supercapacitor application	Agarwal, A; Varshney, C; Kumar, BL; Mendhe, AC; Deshmukh, TB; Sankapal, BR	Journal Of Alloys And Compounds	2022	922	10.1016/j.jallcom.2022.166238	9	6.371	**15.269**
12.2	New PEDOT Derivatives Electrocoated on Silicon Nanowires Protected with ALD Nanometric Alumina for Ultrastable Microsupercapacitors	Dietrich, M; Paillardet, L; Valero, A; Deschanels, M; Azais, P; Gentile, P; Sadki, S	Materials	2022	15	10.3390/ma15175997	9	3.748	**9.440**
12.3	Investigation of hybrid nanostructure based on nanorods vanadium pentoxide/mesoporous silicon as electrode materials for electrochemical supercapacitor	Berouaken, M; Yaddaden, C; Ferdjouni, H; Torki, C; Maoudj, M; Chebout, K; Ayat, M; Menari, H; Manseri, A; Gabouze, N	Applied Physics A-Materials Science & Processing	2022	128	10.1007/s00339-022-05804-6	9	2.983	**7.740**
12.4	Nano-sized neem plant particles as an electrode for electrochemical storage applications	Nagaraj, G; Chinnaiah, K; Kannan, K; Gurushankar, K	Ionics	2022	28	10.1007/s11581-022-04618-z	9	2.961	**7.691**
12.5	Recent progress and future perspective on practical silicon anode-based lithium ion batteries	Sun, L; Liu, YX; Shao, R; Wu, J; Jiang, RY; Jin, Z	Energy Storage Materials	2022	46	10.1016/j.ensm.2022.01.042	9	20.831	**47.402**
13	NiFe layered double hydroxide electrodeposited on Ni foam coated with reduced graphene oxide for high-performance supercapacitors	M. Li, **R. Jijie,** A. Barras, P. Roussel, S. Szunerits, R. Boukherroub	Electrochimica Acta	2019	302	10.1016/j.electacta.2019.01.187	6	6.215	**1546.273**
13.1	Synthesis of amorphous Nickel-Cobalt hydroxides with high areal capacitance by one-step electrodeposition using polymeric additive	Hu, WX; Fu, HK; Chen, L; Wu, X; Geng, B; Huang, YL; Xu, YF; Du, M; Shan, GR; Song, YH; Wu, ZL; Zheng, Q	Chemical Engineering Journal	2023	451	10.1016/j.cej.2022.138613	6	16.744	**57.480**
13.2	Preparation of 3D CeO2@NiFe-LDH composites derived from prussian blue analogues for high performance supercapacitors	Zhou, T; Zhang, WJ; Fu, H; Fang, JY; Chen, CN; Wang, ZB	Materials Science In Semiconductor Processing	2022	150	10.1016/j.mssp.2022.106913	6	4.644	**17.147**
13.3	g-C3N4 promoted NiFe-LDH self-assemble high performance supercapacitor composites	Li, ZM; Yao, MX; Hu, ZA; Zhang, LT; Gou, SQ; Feng, H; Yang, YY; Lu, XQ	Journal Of Alloys And Compounds	2022	919	10.1016/j.jallcom.2022.165805	6	6.371	**22.903**
13.4	g-C3N4 promoted NiFe-LDH self-	Li, ZM; Yao, MX; Hu, ZA;	Journal Of Alloys And	2022	919	10.1016/j.jal	6	6.371	**22.903**

	assemble high performance supercapacitor composites	Zhang, LT; Gou, SQ; Feng, H; Yang, YY; Lu, XQ	Compounds			lcom.2022.165805			
13.5	Hierarchical layered nickel-iron double hydroxide/carbon nanotube fiber electrode for constructing asymmetric fiber supercapacitor	Geng, H; Song, YQ; Luo, W; Zhou, Y; Li, YL	Sustainable Energy & Fuels	2022	6	10.1039/d2se00934j	6	6.813	**24.377**
13.6	Rational design of NiFe alloys for efficient electrochemical hydrogen evolution reaction: effects of Ni/Fe molar ratios	Messaoudi, Y; Belhadj, H; Khelladi, MR; Azizi, A	RSC ADVANCES	2022	12	10.1039/d2ra05922c	6	4.036	**15.120**
13.7	Green fabrication of nickel-iron layered double hydroxides nanosheets efficient for the enhanced capacitive performance	Wang, YC; Chen, Z; Zhang, M; Liu, YY; Luo, HX; Yan, K	Green Energy & Environment	2022	7	10.1016/j.gee.2021.01.0192468-0257	6	12.781	**44.270**
13.8	MXene (Ti3C2T (x)) modified alpha-Co(OH)(2) battery-type cathode and highly capacitive binder-free Ti3C2T (x) anode for high-performance electrochemical hybrid capacitor	Rohit, RC; Jagadale, AD; Shinde, SK; Kim, DY	2D Materials	2022	9	10.1088/2053-1583/ac9191	6	6.861	**24.537**
13.9	Rational design and facile synthesis of Ni-Co-Fe ternary LDH porous sheets for high-performance aqueous asymmetric supercapacitor	Liao, FF; Yang, GY; Cheng, QH; Mao, L; Zhao, X; Chen, LY	Electrochimica Acta	2022	428	10.1016/j.electacta.2022.140939	6	7.336	**26.120**
13.10.	A non-aqueous nickel-manganese sulfide on rGO wrapped Ni-foam as a supercapacitor advanced electrode material	Kandhasamy, N; Srinivasan, S; Murugadoss, G; Venkatachalam, R	Journal Of Materials Science-Materials In Electronics	2022	33	10.1007/s10854-022-09064-1	6	2.779	**10.930**
13.11	Value-added formate production from selective ethylene glycol oxidation based on cost-effective self-supported MOF nanosheet arrays	Jiao, L; Wei, WB; Li, XF; Hong, CB; Han, SG; Khan, MI; Zhu, QL	Rare Metals	2022	41	10.1007/s12598-022-02072-4	6	6.318	**22.727**
13.12	FeSe and Fe3Se4 encapsulated in mesoporous carbon for flexible solid-state supercapacitor	Wang, Y; Zhang, YD; Shao, R; Guo, QR	Chemical Engineering Journal	2022	442	10.1016/j.cej.2022.136362	6	4.446	**16.487**
13.13	NiCoAl Ternary Metal Hydroxides Prepared by Fluorine Ion Assisted Electrodeposition Process for Long Lifespan Supercapacitor Electrodes	Geng, B; Hu, WX; Wu, X; Du, M; Shan, GR; Zheng, Q	Journal Of The Electrochemical Society	2022	169	10.1149/1945-7111/ac8ad4	6	4.386	**16.287**

13.14	Synergistic effect of nanosheet-array-like NiFe-LDH and reduced graphene oxide modified Ni foam for greatly enhanced oxygen evolution reaction and hydrogen evolution reaction	Wang, K; Guo, JW; Zhang, H	Materials Advances	2022	3	10.1039/d2ma00370h	6	0	**0.000**
13.15	Fe-doped Nickel Carbonate Hydroxide Array Electrocatalysts for Enhanced Oxygen Evolution Reaction	Tian, ZM; Peng, B; Yang, JN; Shi, YY; Ma, CX; Liu, GY; Zheng, WJ	Chemistryselect	2022	7	10.1002/slct.202201844	6	2.307	**9.357**
13.16	Electrically Conductive 2D Material Coatings for Flexible and Stretchable Electronics: A Comparative Review of Graphenes and MXenes	Mercadillo, VO; Chan, KC; Caironi, M; Athanassiou, A; Kinloch, IA; Bissett, M; Cataldi, P	Advanced Functional Materials	2022	32	10.1002/adfm.202204772	6	19.924	**68.080**
13.17	Sandwich-like NiCo-LDH/rGO with rich mesopores and high charge transfer capability for flexible supercapacitors	Wang, JQ; Luo, YC; Ling, L; Wang, X; Cui, SC; Li, Z; Jiao, Z; Cheng, LL	Crystengcomm	2022	24	10.1039/d2ce00565d	6	3.756	**14.187**
13.18	Preparation of a Honeycomb-like FeNi(OH/P) Nanosheet Array as a High-Performance Cathode for Hybrid Supercapacitors	Li, CL; Li, RZ; Zhou, YK	Energies	2022	15	10.3390/en15113877	6	3.252	**12.507**
13.19	Design of mesoporous Ni-Co hydroxides nanosheets stabilized by BO2- for pseudocapacitors with superior performance	Chen, C; Liu, MP; Liu, ZX; Xie, MJ; Wan, L; Chen, J; Zhang, Y; Du, C; Li, DS	Journal Of Colloid And Interface Science	2022	614	10.1016/j.jcis.2022.01.028	6	9.965	**34.883**
13.20.	Ni(OH)(2) Nanosheets Grown on Reduced Graphene Oxide for Supercapacitor Electrodes	Guo, BL; Gao, YH; Li, YY; Sun, X; Chen, SL; Li, MC	Acs Applied Nano Materials	2022	5	10.1021/acsanm.2c01464	6	6.14	**22.133**
13.21	Construction of three-dimensional (3D) vertical nanosheets electrode with electrochemical capacity applied to microsupercapattery	Ma, Q; Wang, SH; Han, XX; Cui, JL; Jia, GX; Zhang, YQ; He, WX	Vacuum	2022	198	10.1016/j.vacuum.2022.110914	6	4.11	**15.367**
13.22	Metal-Organic Framework-Derived Hollow CoSx Nanoarray Coupled with NiFe Layered Double Hydroxides as Efficient Bifunctional Electrocatalyst for Overall Water Splitting	Lee, YJ; Park, SK	Small	2022	18	10.1002/smll.202200586	6	15.153	**52.177**

13.23	Fabrication of binary metal phosphate-based binder-free electrode for new generation energy storage device	How, YY; Bibi, F; Numan, A; Walvekar, R; Jagadish, P; Khalid, M; Iqbal, J; Mubarak, NM	Surface & Coatings Technology	2022	429	10.1016/j.surfcoat.2021.127924	6	4.865	**17.883**
13.24	3D-printed NiFe-layered double hydroxide pyramid electrodes for enhanced electrocatalytic oxygen evolution reaction	Ahn, J; Park, YS; Lee, S; Yang, JC; Pyo, J; Lee, J; Kim, GH; Choi, SM; Seol, SK	Scientific Reports	2022	12	10.1038/s41598-021-04347-9	6	4.996	**18.320**
13.25	Core-Shell Structured Cu(OH)(2)@NiFe(OH)(x) Nanotube Electrocatalysts for Methanol Oxidation Based Hydrogen Evolution	Liang, Y; Song, ZX; Zhang, Y; Zhao, B; Wang, XW; Xiang, K; Ge, ZC; Fu, XZ; Luo, JL	Acs Applied Nano Materials	2021	4	10.1021/acsanm.1c01236	6	6.14	**22.133**
13.26	Synthesis of CNTs/CoNiFe-LDH Nanocomposite with High Specific Surface Area for Asymmetric Supercapacitor	Wang, JW; Ding, Q; Bai, CH; Wang, FF; Sun, SG; Xu, YQ; Li, HJ	Nanomaterials	2021	11	10.3390/nano11092155	6	5.719	**20.730**
13.27	Flexible porous Graphene/Nickel hydroxide composite films with 3D ion transport channels for high volumetric performance asymmetric supercapacitor	Hou, BQ; Jin, X; Jiang, LL; Li, YH; Qiu, CJ; Han, DD; Ding, YS; Sheng, LZ	Applied Surface Science	2021	569	10.1016/j.apsusc.2021.151036	6	7.392	**26.307**
13.28	Slight Zinc Doping by an Ultrafast Electrodeposition Process Boosts the Cycling Performance of Layered Double Hydroxides for Ultralong-Life-Span Supercapacitors	Hu, WX; Chen, L; Wu, X; Du, M; Song, YH; Wu, ZL; Zheng, Q	Acs Applied Materials & Interfaces	2021	13	10.1021/acsami.1c10386	6	10.383	**36.277**
13.29	Preparation and characterization of novel 2D/3D NiSe2/MnSe grown on rGO/Ni foam for high-performance battery-supercapacitor hybrid devices	Zhang, GH; Xuan, HC; Yang, J; Wang, R; Xie, ZG; Liang, XH; Han, PD; Wu, YC	Journal Of Power Sources	2021	506	10.1016/j.jpowsour.2021.230255	6	9.794	**34.313**
13.30.	High entropy spinel oxide for efficient electrochemical oxidation of ammonia	He, S; Somayaji, V; Wang, MD; Lee, SH; Geng, ZJ; Zhu, SY; Novello, P; Varanasi, CV; Liu, J	Nano Research	2022	15	10.1007/s12274-021-3665-8	6	10.269	**35.897**
13.31	Bifunctional three-dimensional self-supporting multistage structure CC@MOF-74(NiO)@NiCo LDH	Wang, LL; Yang, YY; Wang, B; Duan, CP; Li, JH; Zheng, LL; Li, JH; Yin, Z	Journal Of Alloys And Compounds	2021	885	10.1016/j.jallcom.2021.160899	6	6.371	**22.903**

	electrode for supercapacitors and non-enzymatic glucose sensors								
13.32	Nickel oxides/hydroxides-graphene as hybrid supercapattery nanocomposites for advanced charge storage materials - a review	Basirun, WJ; Saeed, IM; Rahman, MS; Mazari, SA	Critical Reviews In Solid State And Materials Sciences	2021	46	10.1080/10408436.2021.1886040	6	11.178	**38.927**
13.33	Tailoring the Composition of Ternary Layered Double Hydroxides for Supercapacitors and Electrocatalysis	Rohit, RC; Jagadale, AD; Lee, J; Lee, K; Shinde, SK; Kim, DY	Energy & Fuels	2021	35	10.1021/acs.energyfuels.1c00507	6	4.654	**17.180**
13.34	Construction of three-dimensional nanocube-on-sheet arrays electrode derived from Prussian blue analogue with high electrochemical performance	Wang, JW; Li, MZ; Zhai, Y; Wang, FM; Zhang, XB; Lv, HH; Yu, TT; Zhang, WK	Applied Surface Science	2021	556	10.1016/j.apsusc.2021.149789	6	7.392	**26.307**
13.35	A review on electrodeposited layered double hydroxides for energy and environmental applications	Rohit, RC; Jagadale, AD; Shinde, SK; Kim, DY	Materials Today Communications	2021	27	10.1016/j.mtcomm.2021.102275	6	3.662	**13.873**
13.36	Hierarchical nanosheets of ternary CoNiFe layered double hydroxide for supercapacitors and oxygen evolution reaction	Rohn, RC; Jagadale, AD; Shinde, SK; Kim, DY; Kumbhar, VS; Nakayama, M	Journal Of Alloys And Compounds	2021	863	10.1016/j.jallcom.2020.158081	6	6.371	**22.903**
13.37	Preparation of a Bimetallic NiFe-MOF on Nickel Foam as a Highly Efficient Electrocatalyst for Oxygen Evolution Reaction	Zhao, T; Cheng, C; Wang, D; Zhong, DZ; Hao, GY; Liu, G; Li, JP; Zhao, Q	Chemistryselect	2021	6	10.1002/slct.202004504	6	2.307	**9.357**
13.38	Metal nitride nanosheets enable highly efficient electrochemical oxidation of ammonia	He, S; Chen, YF; Wang, MD; Liu, K; Novello, P; Li, XQ; Zhu, SY; Liu, J	Nano Energy	2021	80	10.1016/j.nanoen.2020.105528	6	19.069	**65.230**
13.39	Solid-state-grinding method to synthesize NiCofe alloy/NiCofe-OH nanosheets for asymmetric supercapacitor	Guo, MY; Ye, L; Zhao, LJ	Journal Of Alloys And Compounds	2021	850	10.1016/j.jallcom.2020.156787	6	6.371	**22.903**
13.40.	Aryne cycloaddition reaction as a facile and mild modification method for design of electrode materials for high-performance symmetric supercapacitor	Sviridova, E; Li, M; Barras, A; Addad, A; Yusubov, MS; Zhdankin, VV; Yoshimura, A; Szunerits, S; Postnikov, PS; Boukherroub, R	Electrochimica Acta	2021	369	10.1016/j.electacta.2020.137667	6	7.336	**26.120**
13.41	Preparation and Capacitance	Samuei, S; Rezvani, Z;	European Journal Of	2021	202	10.1002/ejic.	6	2.551	**10.170**

	Properties of Graphene Quantum Dot/NiFe-Layered Double-Hydroxide Nanocomposite	Shomali, A; Ulker, E; Karadas, F	Inorganic Chemistry		1	202000838			
13.42	Anchoring sea urchin-like cobalt-nickel carbonate hydroxide on 3D carbon sponge for electrochemical energy storage	Fang, SW; Li, J; Xiang, CL; Zou, YJ; Xu, F; Sun, LX; Zhang, J	Journal Of Alloys And Compounds	2020	845	10.1016/j.jallcom.2020.156024	6	5.316	**19.387**
13.43	Anodically treated Ni/reduced graphene oxide electrodeposits as effective low-cost electrocatalysts for hydrogen evolution in alkaline water electrolysis	Flis-Kabulska, I; Flis, J	Diamond And Related Materials	2020	110	10.1016/j.diamond.2020.108145	6	3.315	**12.717**
13.44	Nickel-Cerium Layered Double Hydroxide as Electrocatalyst for Glycerol Oxidation	de Assis, GL; Goncalves, JM; Bernardes, JS; Araki, K	Journal Of The Brazilian Chemical Society	2020	31	10.21577/0103-5053.20200131	6	1.838	**7.793**
13.45	Green fabrication of nickel-iron layered double hydroxides nanosheets efficient for the enhanced capacitive performance	Wang, YC; Chen, Z; Zhang, M; Liu, YY; Luo, HX; Yan, K	Green Energy & Environment	2020	7	10.1016/j.gee.2021.01.019	6	8.207	**29.023**
13.46	NiMnCr layered double hydroxide-carbon spheres modified Ni foam: An efficient positive electrode for hybrid supercapacitors	Li, M; Addad, A; Dolci, M; Roussel, P; Naushad, M; Szunerits, S; Boukherroub, R	Chemical Engineering Journal	2020	396	10.1016/j.cej.2020.125370	6	3.978	**14.927**
13.47	Preparation of boron-doped diamond nanospikes on porous Ti substrate for high-performance supercapacitors	Zhang, J; Coffinier, Y; Zhao, ZY; Szunerits, S; Barras, A; Yu, X; Boukherroub, R	Electrochimica Acta	2020	354	10.1016/j.electacta.2020.136649	6	6.901	**24.670**
13.48	Acetamide-assisted hydrothermal growth of NiCo double hydroxide on graphene modified Ni foam for high-performance supercapacitor	Yang, YJ	Journal Of Applied Electrochemistry	2020	50	10.1007/s10800-020-01473-6	6	2.8	**11.000**
13.49	MnO2-directed synthesis of NiFe-LDH@FeOOH nanosheeet arrays for supercapacitor negative electrode	Sun, Q; Yao, KX; Zhang, YX	Chinese Chemical Letters	2020	31	10.1016/j.cclet.2020.03.069	6	6.779	**24.263**
13.5	Enhanced supercapacitive performance in Ni3S2/MnS composites via an ion-exchange process for supercapacitor	Zhang, GH; Xuan, HC; Wang, R; Guan, YY; Li, HS; Liang, XH; Han, PD; Wu, YC	Electrochimica Acta	2020	353	10.1016/j.electacta.2020.136517	6	6.901	**24.670**

	applications								
13.51	An in situ growth strategy of NiCo-MOF nanosheets with more activity sites for asymmetric supercapacitors	Jia, RP; Zhao, C; Huang, ZX; Liu, X; Wang, DY; Hui, Z; Xu, XW	Ionics	2020	26	10.1007/s11581-020-03727-x	6	2.817	**11.057**
13.52	Mesoporous Ni-Zn-Fe layered double hydroxide as an efficient binder-free electrode active material for high-performance supercapacitors	Elgendy, A; El Basiony, NM; Heakal, FE; Elkholy, AE	Journal Of Power Sources	2020	466	10.1016/j.jpowsour.2020.228294	6	9.127	**32.090**
13.53	Simultaneously morphology and phase controlled synthesis of cobalt manganese hydroxides/reduced graphene oxide for high performance supercapacitor electrodes	Bai, X; Cao, DX; Zhang, HY	Ceramics International	2020	46	10.1016/j.ceramint.2020.04.249	6	4.527	**16.757**
13.54	Emerging CoMn-LDH@MnO2 electrode materials assembled using nanosheets for flexible and foldable energy storage devices	Zhao, Y; He, JF; Dai, MZ; Zhao, DP; Wu, X; Liu, BD	Journal Of Energy Chemistry	2020	45	10.1016/j.jechem.2019.09.027	6	9.676	**33.920**
13.55	The composite of 3D carbon nanotube architecture and NiCo double hydroxide for high-performance supercapacitor	Yang, YJ; Li, WK	Ionics	2020	26	10.1007/s11581-020-03623-4	6	2.817	**11.057**
13.56	Sacrificial template synthesis of hierarchical nickel hydroxidenitrate hollow colloidal particles for electrochemical energy storage	Ma, YL; Zhu, XQ; Wang, BY; Liu, SY; Meng, TT; Chen, H; Peng, B; Deng, ZW	Chemical Engineering Science	2020	217	10.1016/j.ces.2020.115548	6	4.311	**16.037**
13.57	One-step facile synthesis of nickel-chromium layered double hydroxide nanoflakes for high-performance supercapacitors	Chen, Z; Deng, H; Zhang, M; Yang, ZY; Hu, D; Wang, YC; Yan, K	Nanoscale Advances	2020	2	10.1039/d0na00178c	6	4.553	**16.843**
13.58	Hierarchical self-assembly of NiFe-LDH nanosheets on Cofe2O4@Co3S4 nanowires for enhanced overall water splitting	Lin, Y; Wang, JL; Cao, DL; Gong, YQ	Sustainable Energy & Fuels	2020	4	10.1039/c9se01300h	6	6.367	**22.890**
13.59	Growth of NiMn layered double hydroxides on nanopyramidal BiVO4 photoanode for enhanced photoelectrochemical performance	Zhang, T; Lu, YM; Wang, J; Wang, ZQ; Zhang, WS; Wang, XY; Su, JZ; Guo, LJ	Nanotechnology	2020	31	10.1088/1361-6528/ab59ba	6	3.874	**14.580**

13.60.	Electro-deposition of nickel-iron nanoparticles on flower-like MnCo2O4 nanowires as an efficient bifunctional electrocatalyst for overall water splitting	Lin, Y; Yang, Z; Cao, DL; Gong, YQ	Crystengcomm	2020	22	10.1039/c9ce01921a	6	3.545	**13.483**
13.61	Free-standing N-Graphene as conductive matrix for Ni(OH)(2) based supercapacitive electrodes	Upadhyay, KK; Bundaleska, N; Abrashev, M; Bundaleski, N; Teodoro, OMND; Fonseca, I; de Ferro, AM; Silva, RP; Tatarova, E; Montemor, MF	Electrochimica Acta	2020	334	10.1016/j.electacta.2019.135592	6	6.901	**24.670**
13.62	Value-Added Formate Production from Selective Methanol Oxidation as Anodic Reaction to Enhance Electrochemical Hydrogen Cogeneration	Li, M; Deng, XH; Xiang, K; Liang, Y; Zhao, B; Hao, J; Luo, JL; Fu, XZ	Chemsuschem	2020	13	10.1002/cssc.201902921	6	8.928	**31.427**
13.63	Recent Progress in Two-Dimensional Layered Double Hydroxides and Their Derivatives for Supercapacitors	Gao, XR; Wang, PK; Pan, ZH; Claverie, JP; Wang, J	Chemsuschem	2020	13	10.1002/cssc.201902753	6	8.928	**31.427**
13.64	Nanoneedle-decorated NiCo-layered double hydroxide microspheres tuned as high-efficiency electrodes for pseudocapacitors	Zhang, M; Song, YJ; Zhao, XY; Guo, Y; Yang, L; Xu, SL	Crystengcomm	2019	21	10.1039/c9ce01252d	6	3.545	**13.483**
13.65	Unique 3D bilayer nanostructure basic cobalt carbonate@NiCo-layered double hydroxide nanosheets on carbon cloth for supercapacitor electrode material	Li, YT; Wang, LL; Qu, YN; Wang, B; Yu, JG; Song, DD; Duan, CP; Yang, YY	Ionics	2020	26	10.1007/s11581-019-03310-z	6	2.817	**11.057**
13.66	Metal-organic-framework-derived porous 3D heterogeneous NiFex/NiFe2O4@NC nanoflowers as highly stable and efficient electrocatalysts for the oxygen-evolution reaction	Zhao, J; Zhang, X; Liu, M; Jiang, YZ; Wang, M; Li, ZY; Zhou, Z	Journal Of Materials Chemistry A	2019	7	10.1039/c9ta08077e	6	11.301	**39.337**
13.67	Cathodic Electrochemical Deposition of Nanostructured Metal Oxides/Hydroxides and their Composites for Supercapacitor Applications: A Review	Aghazadeh, M	Analytical & Bioanalytical Electrochemistry	2019	11		6		**0.000**

14	Entrapment of uropathogenic E.coli cells into ultra-thin sol-gel matrices on gold thin films: a low cost alterntive for impedimetric bacteria sensing	H. Jafari, M. Amiri, E. Abdi, S. L. Navid, J. Bouckaert, **R. Jijie**, R. Boukherroub, S. Szunerits	Biosensors And Bioelectronics	2019	124	10.1016/j.bios.2018.10.029	8	10.257	**271.780**
14.1	Electrochemical Biosensors for Pathogen Detection: An Updated Review	Banakar, M; Hamidi, M; Khurshid, Z; Zafar, MS; Sapkota, J; Azizian, R; Rokaya, D	Biosensors-Basel	2022	12	10.3390/bios12110927	8	5.743	**15.608**
14.2	Specific and quantitative detection of bacteria based on surface cell imprinted SERS mapping platform	Yang, Y; Zeng, C; Huang, J; Wang, MF; Qi, W; Wang, HX; He, ZM	Biosensors & Bioelectronics	2022	215	10.1016/j.bios.2022.114524	8	12.545	**32.613**
14.3	Recent advances in electrochemical strategies for bacteria detection	Khoshroo, A; Mavaei, M; Rostami, M; Valinezhad-Saghezi, B; Fattahi, A	Bioimpacts	2022	12	10.34172/bi.2022.23616	8	3.783	**10.708**
14.4	Recent Advances on Electrochemical Sensors based on Electroactive Bacterial Systems for Toxicant Monitoring: A Mini Review	Haddour, N; Azri, YM	Electroanalysis	2022		10.1002/elan.202200202	8	3.077	**8.943**
14.5	Emergence of infectious diseases and role of advanced nanomaterials in point-of-care diagnostics: a review	Markandan, K; Tiong, YW; Sankaran, R; Subramanian, S; Markandan, UD; Chaudhary, V; Numan, A; Khalid, M; Walvekar, R	Biotechnology And Genetic Engineering Reviews	2022		10.1080/02648725.2022.2127070	8	4.2	**11.750**
14.6	Structural Rearrangements of Carbonic Anhydrase Entrapped in Sol-Gel Magnetite Determined by ATR-FTIR Spectroscopy	Ivanovski, V; Shapovalova, OE; Drozdov, AS	International Journal Of Molecular Sciences	2022	23	10.3390/ijms23115975	8	6.208	**16.770**
14.7	Equivalent Electrical Circuits and Their Use Across Electrochemical Impedance Spectroscopy Application Domains	Van Haeverbeke, M; Stock, M; De Baets, B	IEEE ACCESS	2022	10	10.1109/ACCESS.2022.3174067	8	3.476	**9.940**
14.8	Recent Progresses on Biosensors for Escherichia coli Detection	Huang, Y; Su, ZP; Li, W; Ren, JL	Food Analytical Methods	2022	15	10.1007/s12161-021-02129-7	8	3.498	**9.995**
14.9	Use of PEDOT:PSS/Graphene/Nafion Composite in Biosensors Based on Acetic Acid Bacteria	Plekhanova, Y; Tarasov, S; Reshetilov, A	Biosensors-Basel	2021	11	10.3390/bios11090332	8	5.743	**15.608**

14.10.	Towards Clean and Safe Water: A Review on the Emerging Role of Imprinted Polymer-Based Electrochemical Sensors	Zheng, XF; Khaoulani, S; Ktari, N; Lo, MM; Khalil, AM; Zerrouki, C; Fourati, N; Chehimi, MM	Sensors	2021	21	10.3390/s21134300	8	3.847	**10.868**
14.11	Recent Innovations in Bacterial Infection Detection and Treatment	Deusenbery, C; Wang, YY; Shukla, A	Acs Infectious Diseases	2021	7	10.1021/acsinfecdis.0c00890	8	5.578	**15.195**
14.12	Rapid, sensitive and label-free detection of pathogenic bacteria using a bacteria-imprinted conducting polymer film-based electrochemical sensor	Wang, RN; Wang, LL; Yan, J; Luan, DL; Sun, T; Wu, JK; Bian, XJ	Talanta	2021	226	10.1016/j.talanta.2021.122135	8	6.556	**17.640**
14.13	Wireless electrochemical and luminescent detection of bacteria based on surface-coated CsWO3-immobilized fluorescent carbon dots with photothermal ablation of bacteria	Robby, AI; Kim, SG; Lee, UH; In, I; Lee, G; Park, SY	Chemical Engineering Journal	2021	403	10.1016/j.cej.2020.126351	8	4.446	**12.365**
14.14	Electrochemical Immuno- and Aptamer-Based Assays for Bacteria: Pros and Cons over Traditional Detection Schemes	Jamal, RB; Shipovskov, S; Ferapontova, EE	Sensors	2020	20	10.3390/s20195561	8	3.576	**10.190**
14.15	Electrochemical biosensors for pathogen detection	Cesewski, E; Johnson, BN	Biosensors & Bioelectronics	2020	159	10.1016/j.bios.2020.112214	8	10.618	**27.795**
14.16	Bacterial Imprinting Methods and Their Applications: An Overview	Zaidi, SA	Critical Reviews In Analytical Chemistry	2021	51	10.1080/10408347.2020.1755822	8	5.686	**15.465**
14.17	Rapid and selective recognition of Vibrio parahaemolyticus assisted by perfluorinated alkoxysilane modified molecularly imprinted polymer film	Fu, KY; Zhang, HW; Guo, YY; Li, J; Nie, HR; Song, XT; Xu, K; Wang, J; Zhao, C	Rsc Advances	2020	10	10.1039/d0ra00306a	8	3.361	**9.653**
14.18	Electrochemical assays for microbial analysis: how far they are from solving microbiota and microbiome challenges	Ferapontova, EE	Current Opinion In Electrochemistry	2020	19	10.1016/j.coelec.2019.12.005	8	7.271	**19.428**
14.19	Impedimetric Detection of Bacteria Using Hierarchical 3D Nanostructured Gold	Sanati, A; Moakhar, RS; Jalali, M; AbdElFatah, T; Flynn, SE; Mahshid, SS;	20th IEEE International Conference On Nanotechnology (IEEE	2020			8	0	**1.250**

		Mahshid, S	Nano 2020)						
15	Efficient capture and photothermal ablation of planktonic bacteria and biofilms using reduced graphene oxide-polyethyleneimine flexible nanoheaters	M. Budimir, **R. Jijie**, R. Ye, A. Barras, S. Melinte, A. Silhanek, Z. Markovic, S. Szunerits and R. Boukherroub	Journal Of Materials Chemistry B	2019	7	10.1039/c8tb01676c	9	5.344	**393.018**
15.1	Effective PDT/PTT dual-modal phototherapeutic killing of bacteria by using poly(N-phenylglycine) nanoparticles	Ghayyem, S; Barras, A; Faridbod, F; Szunerits, S; Boukherroub, R	Microchimica Acta	2022	189	10.1007/s00604-022-05181-0	9	6.408	**15.351**
15.2	Surface modification of carbon dots with tetraalkylammonium moieties for fine tuning their antibacterial activity	Sviridova, E; Barras, A; Addad, A; Plotnikov, E; Di Martino, A; Deresmes, D; Nikiforova, K; Trusova, M; Szunerits, S; Guselnikova, O; Postnikov, P; Boukherroub, R	Biomaterials Advances	2022	134	10.1016/j.msec.2022.112697	9	0	**0.000**
15.3	Spent coffee grounds as potential green photothermal materials for biofilm elimination	Chien, HW; Chen, XE	Journal Of Environmental Chemical Engineering	2022	10	10.1016/j.jece.2022.107131	9	7.968	**18.818**
15.4	Conjugated Polymers for Combatting Antimicrobial Resistance	Wang, ZJ; Geng, H; Nie, CY; Xing, CF	Chinese Journal Of Chemistry	2022	40	10.1002/cjoc.202100692	9	5.56	**13.467**
15.5	Infection microenvironment-related antibacterial nanotherapeutic strategies	Wang, Z; Liu, XY; Duan, YW; Huang, Y	Biomaterials	2022	280	10.1016/j.biomaterials.2021.121249	9	15.304	**35.120**
15.6	Achieving parallelly-arranged Ti3C2Tx in epoxy coating for anti-corrosive/wear high-efficiency protection	Fan, XQ; Yan, H; Cai, M; Song, SJ; Huang, Y; Zhu, MH	Composites Part B-Engineering	2022	231	10.1016/j.compositesb.2021.109581	9	11.322	**26.271**
15.7	Cobalt sulfide-reduced graphene oxide: An efficient catalyst for the degradation of rhodamine B and pentachlorophenol using peroxymonosulfate	Amirache, L; Barka-Bouaifel, F; Borthakur, P; Das, MR; Ahouari, H; Barras, A; Ouddane, B; Szunerits, S; Boukherroub, R	Journal Of Environmental Chemical Engineering	2021	9	10.1016/j.jece.2021.106018	9	7.968	**18.818**
15.8	Amino-functionalized Ti3C2Tx loading ZIF-8 nanocontainer@benzotriazole as multifunctional composite filler towards self-healing epoxy coating	Yan, H; Fan, XQ; Cai, M; Song, SJ; Zhu, MH	Journal Of Colloid And Interface Science	2021	602	10.1016/j.jcis.2021.06.004	9	9.965	**23.256**
15.9	Near-Infrared Light Brightens	Han, QY; Lau, JW; Do, HC;	Acs Applied Bio	2021	4	10.1021/acsa	9	0	**0.000**

	Bacterial Disinfection: Recent Progress and Perspectives	Zhang, ZJ; Xing, BG	Materials			bm.0c01341			
15.10.	Graphene oxide with acid-activated bacterial membrane anchoring for improving synergistic antibacterial performances	Huo, SH; Gao, YM; Fang, LL; Jiang, ZT; Xie, QH; Meng, QY; Fei, GH; Ding, SG	Applied Surface Science	2021	551	10.1016/j.apsusc.2021.149444	9	7.392	**17.538**
15.11	Facile modification of graphene oxide by humic acid for enhancing hexavalent chromium photoreduction	Chen, YM; Jiang, WS; Zhao, CH; Liu, ZJ; Liang, YJ	Journal Of Environmental Chemical Engineering	2021	9	10.1016/j.jece.2020.104759	9	7.968	**18.818**
15.12	Effect of potassium permanganate on morphological, structural and electro-optical properties of graphene oxide thin films	Kashif, M; Jaafar, E; Bhadja, P; Low, FW; Sahari, SK; Hussain, S; Loong, FK; Ahmad, A; AlGarni, TS; Shafa, M; Asghar, H; Al-Tamrah, SA	Arabian Journal Of Chemistry	2021	14	10.1016/j.arabjc.2020.102953	9	6.212	**14.916**
15.13	Photothermal applications based on graphene and its derivatives: A state-of-the-art review	Li, ZJ; Lei, H; Kan, AK; Xie, HQ; Yu, W	Energy	2021	216	10.1016/j.energy.2020.119262	9	8.857	**20.793**
15.14	Photothermal-Irradiated Polyethyleneimine-Polypyrrole Nanopigment Film-Coated Polyethylene Fabrics for Infrared-Inspired with Pathogenic Evaluation	Hsiao, YC; Jheng, PR; Nguyen, HT; Chen, YH; Manga, YB; Lu, LS; Rethi, L; Chen, CH; Huang, TW; Lin, JD; Chang, TK; Ho, YC; Chuang, EY	Acs Applied Materials & Interfaces	2021	13	10.1021/acsami.0c17169	9	10.383	**24.184**
15.15	Wireless electrochemical and luminescent detection of bacteria based on surface-coated CsWO3-immobilized fluorescent carbon dots with photothermal ablation of bacteria	Robby, AI; Kim, SG; Lee, UH; In, I; Lee, G; Park, SY	Chemical Engineering Journal	2021	403	10.1016/j.cej.2020.126351	9	4.446	**10.991**
15.16	Photoresponsive Materials for Antibacterial Applications	Ren, YW; Liu, HP; Liu, XM; Zheng, YF; Li, ZY; Li, CY; Yeung, KWK; Zhu, SL; Liang, YQ; Cui, ZD; Wu, SL	Cell Reports Physical Science	2020	1	10.1016/j.xcrp.2020.100245	9	0	**0.000**
15.17	Graphene oxide chemically reduced and functionalized with KOH-PEI for efficient Cr(VI) adsorption and reduction in acidic medium	Tadjenant, Y; Dokhan, N; Barras, A; Addad, A; Jijie, R; Szunerits, S; Boukherroub, R	Chemosphere	2020	258	10.1016/j.chemosphere.2020.127316	9	7.086	**0.000**
15.18	PDA/Cu Bioactive Hydrogel with	Xu, Q; Chang, ML; Zhang, Y;	Acs Applied Materials &	2020	12	10.1021/acsa	9	9.229	**21.620**

	Hot Ions Effect for Inhibition of Drug-Resistant Bacteria and Enhancement of Infectious Skin Wound Healing	Wang, ED; Xing, M; Gao, L; Huan, ZG; Guo, F; Chang, J	Interfaces			mi.0c08890			
15.19	Construction of Chitosan-Based Hydrogel Incorporated with Antimonene Nanosheets for Rapid Capture and Elimination of Bacteria	Liu, YN; Xiao, YQ; Cao, YY; Guo, ZR; Li, F; Wang, L	Advanced Functional Materials	2020	30	10.1002/adfm.202003196	9	18.808	**42.907**
15.2	Nanomaterials for the Photothermal Killing of Bacteria	Yougbare, S; Mutalik, C; Krisnawati, DI; Kristanto, H; Jazidie, A; Nuh, M; Cheng, TM; Kuo, TR	Nanomaterials	2020	10	10.3390/nano10061123	9	5.076	**12.391**
15.21	Supramolecular Assemblies of Heterogeneous Mesoporous Silica Nanoparticles to Co-deliver Antimicrobial Peptides and Antibiotics for Synergistic Eradication of Pathogenic Biofilms	Yu, QL; Deng, T; Lin, FC; Zhang, B; Zink, JI	Acs Nano	2020	14	10.1021/acsnano.0c01336	9	15.881	**36.402**
15.22	Bacteria-induced aggregation of bioorthogonal gold nanoparticles for SERS imaging and enhanced photothermal ablation of Gram-positive bacteria	Wang, HJ; Ouyang, WW; Zhang, XR; Xue, J; Lou, XR; Fan, RR; Zhao, XN; Shan, LQ; Jiang, TT	Journal Of Materials Chemistry B	2019	7	10.1039/c9tb00845d	9	5.344	**12.987**
15.23	Photothermal-Induced Antibacterial Activity of Gold Nanorods Loaded into Polymeric Hydrogel against Pseudomonas aeruginosa Biofilm	Al-Bakri, AG; Mahmoud, NN	Molecules	2019	24	10.3390/molecules24142661	9	3.267	**8.371**
16	Micro-(nano) plastics in freshwater ecosystems: Abundance, toxicological impact and quantification methodology	S. Strungaru1, **R. Jijie1**, M. Nicoara, G. Plavan and C. Faggio	Trac Trends In Anaytical Chemistry	2019	110	10.1016/j.trac.2018.10.025	5	9.801	**6390.468**
16.1	Adverse effects of polystyrene microplastics in the freshwater commercial fish, grass carp (Ctenopharyngodon idella): Emphasis on physiological response and intestinal microbiome	Hao, YT; Sun, YF; Li, M; Fang, XD; Wang, ZK; Zuo, JL; Zhang, CY	Science Of The Total Environment	2023	856	10.1016/j.scitotenv.2022.159270	5	10.753	**45.012**
16.2	Impacts of hydraulic conditions on microplastics biofilm development, shear stresses distribution, and	Chen, X; Lian, XY; Wang, Y; Chen, S; Sun, YR; Tao, GL; Tan, QW; Feng, JC	Journal Of Environmental Management	2023	325	10.1016/j.jenvman.2022.116510	5	2.617	**12.468**

	microbial community structures in drinking water distribution pipes								
16.3	Sentinel species selection for monitoring microplastic pollution: A review on one health approach	Multisanti, CR; Merola, C; Perugini, M; Aliko, V; Faggio, C	Ecological Indicators	2022	145	10.1016/j.ecolind.2022.109587	5	6.263	**27.052**
16.4	Intake of polyamide microplastics affects the behavior and metabolism of Drosophila	Zhong, LC; Jin, H; Tang, H; Xu, YF; Liu, XY; Shen, J	Chemosphere	2022	308	10.1016/j.chemosphere.2022.136485	5	8.943	**37.772**
16.5	Effects of ionic strength and particle size on transport of microplastic and humic acid in porous media	Zhao, WG; Su, Z; Geng, T; Zhao, YW; Tian, YM; Zhao, P	Chemosphere	2022	309	10.1016/j.chemosphere.2022.136593	5	8.943	**37.772**
16.6	Ecotoxicological perspectives of microplastic pollution in amphibians	Burgos-Aceves, MA; Faggio, C; Betancourt-Lozano, M; Gonzalez-Mille, DJ; Ilizaliturri-Hernandez, CA	Journal Of Toxicology And Environmental Health-Part B-Critical Reviews	2022	25	10.1080/10937404.2022.2140372	5	8.071	**34.284**
16.7	Comprehensive Review regarding the Profile of the Microplastic Pollution in the Coastal Area of the Black Sea	Savuca, A; Nicoara, MN; Faggio, C	Sustainability	2022	14	10.3390/su142114376	5	3.889	**17.556**
16.8	Toxic effects of polyethylene microplastics on transcriptional changes, biochemical response, and oxidative stress in common carp (Cyprinus carpio)	Banaei, M; Forouzanfar, M; Jafarinia, M	Comparative Biochemistry And Physiology C-Toxicology & Pharmacology	2022	261	10.1016/j.cbpc.2022.109423	5	4.52	**20.080**
16.9	Blood biomarkers as diagnostic tools: An overview of climate-driven stress responses in fish	Shahjahan, M; Islam, MJ; Hossain, MT; Mishu, MA; Hasan, J; Brown, C	Science Of The Total Environment	2022	843	10.1016/j.scitotenv.2022.156910	5	10.753	**45.012**
16.10.	STEM Approach in Assessment of Microplastic Particles in Textile Wastewater	Curlin, M; Pusic, T; Vojnovic, B; Vincic, A	Tehnicki Vjesnik-Technical Gazette	2022	29	10.17559/TV-20220121153959	5	0.864	**5.456**
16.11	Modeling three-dimensional transport of microplastics and impacts of biofouling in Lake Erie and Lake Ontario	Daily, J; Tyler, AC; Hoffman, MJ	Journal Of Great Lakes Research	2022	48	10.1016/j.jglr.2022.07.001	5	3.032	**14.128**
16.12	A critical review of the emerging research on the detection and assessment of microplastics pollution in the coastal, marine, and	Pushan, ZA; Rahman, E; Islam, N; Aich, N	Frontiers Of Environmental Science & Engineering	2022	16	10.1007/s11783-022-1563-2	5	6.048	**26.192**

	urban Bangladesh								
16.13	Amine-modified nanoplastics promote the procoagulant activation of isolated human red blood cells and thrombus formation in rats	Kim, EH; Choi, S; Kim, D; Park, HJ; Bian, Y; Choi, SH; Chung, HY; Bae, ON	Particle And Fibre Toxicology	2022	19	10.1186/s12989-022-00500-y	5	9.112	**38.448**
16.14	Another one bites the plastics	Gallitelli, L; Zauli, A; Scalici, M	Ecology And Evolution	2022	12	10.1002/ece3.9332	5	1.345	**7.380**
16.15	Plastics in scene: A review of the effect of plastics in aquatic crustaceans	Pisani, XG; Lompre, JS; Pires, A; Greco, LL	Environmental Research	2022	212	10.1016/j.envres.2022.113484	5	8.431	**35.724**
16.16	Plastic particles in medicine: A systematic review of exposure and effects to human health	Gopinath, PM; Parvathi, VD; Yoghalakshmi, N; Kumar, SM; Athulya, PA; Mukherjee, A; Chandrasekaran, N	Chemosphere	2022	303	10.1016/j.chemosphere.2022.135227	5	8.943	**37.772**
16.17	Coronas of micro/nano plastics: a key determinant in their risk assessments	Cao, JY; Yang, Q; Jiang, J; Dalu, T; Kadushkin, A; Singh, J; Fakhrullin, R; Wang, FJ; Cai, XM; Li, RB	Particle And Fibre Toxicology	2022	19	10.1186/s12989-022-00492-9	5	9.112	**38.448**
16.18	A review on microplastics and nanoplastics in the environment: Their occurrence, exposure routes, toxic studies, and potential effects on human health	Sangkham, S; Faikhaw, O; Munkong, N; Sakunkoo, P; Arunlertaree, C; Chavali, M; Mousazadeh, M; Tiwari, A	Marine Pollution Bulletin	2022	181	10.1016/j.marpolbul.2022.113832	5	7.001	**30.004**
16.19	Interactive impacts of microplastics and chlorine on biological stability and microbial community formation in stagnant water	Chen, X; Tao, GL; Wang, Y; Wei, WZ; Lian, XY; Shi, Y; Chen, S; Sun, YR	Water Research	2022	221	10.1016/j.watres.2022.118734	5	13.4	**55.600**
16.2	Microplastics in decapod crustaceans: Accumulation, toxicity and impacts, a review	D'Costa, AH	Science Of The Total Environment	2022	832	10.1016/j.scitotenv.2022.154963	5	10.753	**45.012**
16.21	Quantification of differential tissue biomarker responses to microplastic ingestion and plasticizer bioaccumulation in aquaculture reared sea bream Sparus aurata	Capo, X; Alomar, C; Compa, M; Sole, M; Sanahuja, I; Rojas, DLS; Gonzalez, GP; Martinez, RMG; Deudero, S	Environmental Research	2022	211	10.1016/j.envres.2022.113063	5	8.431	**35.724**
16.22	Review on the ecotoxicological impacts of plastic pollution on the freshwater invertebrate Daphnia	Samadi, A; Kim, Y; Lee, SA; Kim, YJ; Esterhuizen, M	Environmental Toxicology	2022	37	10.1002/tox.23623	5	4.109	**18.436**
16.23	Feeding exposure and feeding behaviour as relevant approaches in	Venancio, C; Gabriel, A; Oliveira, M; Lopes, I	Environmental Research	2022	212	10.1016/j.envres.2022.11	5	8.431	**35.724**

	the assessment of the effects of micro(nano)plastics to early life stages of amphibians					3476			
16.24	Automatic quantification and classification of microplastics in scanning electron micrographs via deep learning	Shi, B; Patel, M; Yu, DA; Yan, JH; Li, ZY; Petriw, D; Pruyn, T; Smyth, K; Passeport, E; Miller, RJD; Howe, JY	Science Of The Total Environment	2022	825	10.1016/j.scitotenv.2022.153903	5	10.753	**45.012**
16.25	The Inhibition of Microcystin Adsorption by Microplastics in the Presence of Algal Organic Matters	Tang, BR; Tang, Y; Zhou, X; Liu, MZ; Li, H; Qi, J	Toxics	2022	10	10.3390/toxics10060339	5	4.472	**19.888**
16.26	Molecular, biochemical and behavioral responses of Daphnia magna under long-term exposure to polystyrene nanoplastics	De Felice, B; Sugni, M; Casati, L; Parolini, M	Environment International	2022	164	10.1016/j.envint.2022.107264	5	13.352	**55.408**
16.27	Experimental evaluation of microplastic consumption by using a size-fractionation approach in the planktonic communities	Da Silva, JVF; Lansac-Toha, FM; Segovia, BT; Amadeo, FE; Braghin, LDM; Velho, LFM; Sarmento, H; Bonecker, CC	Science Of The Total Environment	2022	821	10.1016/j.scitotenv.2022.153045	5	10.753	**45.012**
16.28	Autofluorescence of Model Polyethylene Terephthalate Nanoplastics for Cell Interaction Studies	Lionetto, F; Lionetto, MG; Mele, C; Corcione, CE; Bagheri, S; Udayan, G; Maffezzoli, A	Nanomaterials	2022	12	10.3390/nano12091560	5	5.719	**24.876**
16.29	Presence of nanoplastics in rural and remote surface waters	Materic, D; Peacock, M; Dean, J; Futter, M; Maximov, T; Moldan, F; Rockmann, T; Holzinger, R	Environmental Research Letters	2022	17	10.1088/1748-9326/ac68f7	5	6.947	**29.788**
16.30.	Land-use change and valorisation of feedstock side-streams determine the climate mitigation potential of bioplastics	Bishop, G; Styles, D; Lens, PNL	Resources Conservation And Recycling	2022	180	10.1016/j.resconrec.2022.106185	5	13.716	**56.864**
16.31	Trash-to-fuel: Converting municipal waste into transportation fuels by pyrolysis	Xu, Y; Schrader, W	Iscience	2022	25	10.1016/j.isci.2022.104036	5	6.107	**26.428**
16.32	Ecotoxicity of microplastics to freshwater biota: Considering exposure and hazard across trophic levels	Castro-Castellon, AT; Horton, AA; Hughes, JMR; Rampley, C; Jeffers, ES; Bussi, G; Whitehead, P	Science Of The Total Environment	2022	816	10.1016/j.scitotenv.2021.151638	5	10.753	**45.012**
16.33	Spectroscopy: A promising tool for	Adarsh, UK; Kartha, VB;	Trac-Trends In	2022	149	10.1016/j.tra	5	14.908	**61.632**

	plastic waste management	Santhosh, C; Unnikrishnan, VK	Analytical Chemistry			c.2022.116534			
16.34	Non-destructive biomarkers can reveal effects of the association of microplastics and pharmaceuticals or personal care products	da Silva, LF; Nobre, CR; Moreno, BB; Pereira, CDS; Abessa, DMD; Choueri, RB; Gusso-Choueri, PK; Cesar, A	Marine Pollution Bulletin	2022	177	10.1016/j.marpolbul.2022.113469	5	7.001	**30.004**
16.35	Critical review of microplastics removal from the environment	Ahmed, R; Hamid, AK; Krebsbach, SA; He, JZ; Wang, DJ	Chemosphere	2022	293	10.1016/j.chemosphere.2022.133557	5	8.943	**37.772**
16.36	Plasma-induced conversion of polystyrene nanoplastics in water: Intermediates release, toxicity, and disinfection byproducts formation	Zhou, LL; Wang, RG; Liu, Y; Zhang, Y; Zhou, J; Qu, GZ; Tang, SF; Wang, TC	Chemical Engineering Journal	2022	433	10.1016/j.cej.2022.134543	5	4.446	**19.784**
16.37	Oxidative stress responses of microplastic-contaminated Gambusia affinis obtained from the Brantas River in East Java, Indonesia	Buwono, NR; Risjani, Y; Soegianto, A	Chemosphere	2022	293	10.1016/j.chemosphere.2022.133543	5	8.943	**37.772**
16.38	Fate and removal efficiency of polystyrene nanoplastics in a pilot drinking water treatment plant	Arenas, LR; Gentile, SR; Zimmermann, S; Stoll, S	Science Of The Total Environment	2022	813	10.1016/j.scitotenv.2021.152623	5	10.753	**45.012**
16.39	Presence of microplastics in two common dried marine fish species from Bangladesh	Hasan, J; Islam, SMM; Alam, MS; Johnson, D; Belton, B; Hossain, MAR; Shahjahan, M	Marine Pollution Bulletin	2022	176	10.1016/j.marpolbul.2022.113430	5	7.001	**30.004**
16.4	Dissolved Organic Matter Enhanced the Aggregation and Oxidation of Nanoplastics under Simulated Sunlight Irradiation in Water	Zhang, YN; Cheng, FY; Zhang, TT; Li, C; Qu, J; Chen, JW; Peijnenburg, WJGM	Environmental Science & Technology	2022	56	10.1021/acs.est.1c07129	5	11.357	**47.428**
16.41	A Rapid Method for Detecting Microplastics Based on Fluorescence Lifetime Imaging Technology (FLIM)	Zhou, F; Wang, X; Wang, GX; Zuo, YX	Toxics	2022	10	10.3390/toxics10030118	5	4.472	**19.888**
16.42	Non-Negligible Effects of UV Irradiation on Transformation and Environmental Risks of Microplastics in the Water Environment	Cheng, FY; Zhang, TT; Liu, Y; Zhang, YA; Qu, J	Journal Of Xenobiotics	2022	12	10.3390/jox12010001	5	0	**0.000**
16.43	Total Organic Carbon as a Quantitative Index of Micro- and	Li, P; Lai, YJ; Li, QC; Dong, LJ; Tan, ZQ; Yu, SJ; Chen,	Analytical Chemistry	2022	94	10.1021/acs.analchem.1c	5	8.008	**34.032**

	Nano-Plastic Pollution	YS; Sharma, VK; Liu, JF; Jiang, GB				03114			
16.44	Plastics are a new threat to Palau's coral reefs	Beraud, E; Bednarz, V; Otto, I; Golbuu, Y; Ferrier-Pages, C	Plos One	2022	17	10.1371/journal.pone.0270237	5	3.752	**17.008**
16.45	Temporal genetic structure of a stock of Prochilodus lineatus (Characiformes: Prochilodontidae) in the Mogi-Guacu River ecosystem, Sao Paulo, Brazil	da Rosa, IF; de Oliveira, DJ; da Cruz, VP; Ashikaga, FY; Costa, GO; Doretto, LB; Senhorini, JA; Rocha, RD; Foresti, FP; Oliveira, C; Foresti, F	Neotropical Ichthyology	2022	20	10.1590/1982-0224-2021-0156	5	1.47	**7.880**
16.46	Microplastics in Sediments of Southwest Caspian Sea: Characteristics, Distribution and Seasonal Variability	Rasta, M; Rahimibashar, MR; Jafroudi, HT; Fakheri, S; Kouhbane, ST; Taridashti, F	Soil & Sediment Contamination	2022	31	10.1080/15320383.2021.2010648	5	3.057	**14.228**
16.47	What Is the Impact of Microplastics and Lipid Regulators on Marine Meiofauna? Case Study of Polyvinyl Chloride, Atorvastatin, and Simvastatin	Allouche, M; Ishak, S; Nasri, A; Hedfi, A; Ben Ali, M; Albogami, B; Almalki, M; Pacioglu, O; Boufahja, F	Sustainability	2021	13	10.3390/su132313190	5	3.889	**17.556**
16.48	Plastic pollution in Bangladesh: A review on current status emphasizing the impacts on environment and public health	Hossain, S; Rahman, MA; Chowdhury, MA; Mohonta, SK	Environmental Engineering Research	2021	26	10.4491/eer.2020.535	5	3.932	**17.728**
16.49	Interactions and associated resistance development mechanisms between microplastics, antibiotics and heavy metals in the aquaculture environment	Li, Z; Junaid, M; Chen, GL; Wang, J	Reviews In Aquaculture	2022	14	10.1111/raq.12639	5	10.618	**44.472**
16.50.	Interaction of micro(nano)plastics with extracellular and intracellular biomolecules in the freshwater environment	Junaid, M; Wang, J	Critical Reviews In Environmental Science And Technology	2022	52	10.1080/10643389.2021.2002078	5	11.75	**49.000**
16.51	Modification of Poly(lactic acid) by the Plasticization for Application in the Packaging Industry	Gzyra-Jagiela, K; Sulak, K; Draczynski, Z; Podzimek, S; Galecki, S; Jagodzinska, S; Borkowski, D	Polymers	2021	13	10.3390/polym13213651	5	4.967	**21.868**
16.52	Selective quantification of nanoplastics in environmental matrices by asymmetric flow field-	Mowla, M; Shakiba, S; Louie, SM	Chemical Communications	2021	57	10.1039/d1cc04852j	5	6.065	**26.260**

	flow fractionation with total organic carbon detection								
16.53	Photoluminescence-Based Techniques for the Detection of Micro- and Nanoplastics	Capolungo, C; Genovese, D; Montalti, M; Rampazzo, E; Zaccheroni, N; Prodi, L	Chemistry-A European Journal	2021	27	10.1002/chem.202102692	5	5.02	**22.080**
16.54	Progress, prospects, and challenges in standardization of sampling and analysis of micro- and nano-plastics in the environment	Rai, PK; Kumar, V; Sonne, C; Lee, SS; Brown, RJC; Kim, KH	Journal Of Cleaner Production	2021	325	10.1016/j.jclepro.2021.129321	5	11.072	**46.288**
16.55	Use of CO2 and nylon as the raw materials for flammable gas production through a catalytic thermo-chemical process	Lee, S; Jung, S; Lin, KYA; Tsang, YF; Kwon, EE	Green Chemistry	2021	23	10.1039/d1gc02540f	5	0	**0.000**
16.56	Microplastics' origin, distribution, and rising hazard to aquatic organisms and human health: Socio-economic insinuations and management solutions	Chaudhry, AK; Sachdeva, P	Regional Studies In Marine Science	2021	48	10.1016/j.rsma.2021.102018	5	2.166	**10.664**
16.51	Modification of Poly(lactic acid) by the Plasticization for Application in the Packaging Industry	Gzyra-Jagiela, K; Sulak, K; Draczynski, Z; Podzimek, S; Galecki, S; Jagodzinska, S; Borkowski, D	Polymers	2021	13	10.3390/polym13213651	5	4.967	**21.868**
16.52	Selective quantification of nanoplastics in environmental matrices by asymmetric flow field-flow fractionation with total organic carbon detection	Mowla, M; Shakiba, S; Louie, SM	Chemical Communications	2021	57	10.1039/d1cc04852j	5	6.065	**26.260**
16.53	Photoluminescence-Based Techniques for the Detection of Micro- and Nanoplastics	Capolungo, C; Genovese, D; Montalti, M; Rampazzo, E; Zaccheroni, N; Prodi, L	Chemistry-A European Journal	2021	27	10.1002/chem.202102692	5	5.02	**22.080**
16.54	Progress, prospects, and challenges in standardization of sampling and analysis of micro- and nano-plastics in the environment	Rai, PK; Kumar, V; Sonne, C; Lee, SS; Brown, RJC; Kim, KH	Journal Of Cleaner Production	2021	325	10.1016/j.jclepro.2021.129321	5	11.072	**46.288**
16.55	Use of CO2 and nylon as the raw materials for flammable gas production through a catalytic thermo-chemical process	Lee, S; Jung, S; Lin, KYA; Tsang, YF; Kwon, EE	Green Chemistry	2021	23	10.1039/d1gc02540f	5	0	**0.000**
16.56	Microplastics' origin, distribution, and rising hazard to aquatic	Chaudhry, AK; Sachdeva, P	Regional Studies In Marine Science	2021	48	10.1016/j.rsma.2021.102	5	2.166	**10.664**

	organisms and human health: Socio-economic insinuations and management solutions					018			
16.57	Comparative toxic effects of microplastics and nanoplastics on Chlamydomonas reinhardtii: Growth inhibition, oxidative stress, and cell morphology	Yan, Z; Xu, LM; Zhang, WM; Yang, G; Zhao, ZL; Wang, Y; Li, XC	Journal Of Water Process Engineering	2021	43	10.1016/j.jwpe.2021.102291	5	7.34	**31.360**
16.58	Polymethylmethacrylate nanoplastics can cause developmental malformations in early life stages of Xenopus laevis	Venancio, C; Melnic, I; Tamayo-Belda, M; Oliveira, M; Martins, MA; Lopes, I	Science Of The Total Environment	2022	806	10.1016/j.scitotenv.2021.150491	5	10.753	**45.012**
16.59	Towards understanding the impact of plastics on freshwater and marine microalgae: A review of the mechanisms and toxicity endpoints	Nam, SH; Lee, J; An, YJ	Journal Of Hazardous Materials	2022	423	10.1016/j.jhazmat.2021.127174	5	14.224	**58.896**
16.60.	Triclosan elicited biochemical and transcriptomic alterations in Labeo rohita larvae	Sharma, S; Dar, OI; Singh, K; Kaur, A; Faggio, C	Environmental Toxicology And Pharmacology	2021	88	10.1016/j.etap.2021.103748	5	5.785	**25.140**
16.61	Plastisphere in freshwaters: An emerging concern*	Barros, J; Seena, S	Environmental Pollution	2021	290	10.1016/j.envpol.2021.118123	5	9.988	**41.952**
16.62	Investigation of the impact caused by different sizes of polyethylene plastics (nano, micro, and macro) in common carp juveniles, Cyprinus carpio L., using multi-biomarkers	Hamed, M; Monteiro, CE; Sayed, AEDH	Science Of The Total Environment	2022	803	10.1016/j.scitotenv.2021.149921	5	10.753	**45.012**
16.63	Microplastics in the Environment: Intake through the Food Web, Human Exposure and Toxicological Effects	Pironti, C; Ricciardi, M; Motta, O; Miele, Y; Proto, A; Montano, L	Toxics	2021	9	10.3390/toxics9090224	5	4.472	**19.888**
16.64	Microplastics interaction with terrestrial plants and their impacts on agriculture	Ullah, R; Tsui, MTK; Chen, H; Chow, A; Williams, C; Ligaba-Osena, A	Journal Of Environmental Quality	2021	50	10.1002/jeq2.20264	5	0	**0.000**
16.65	A systematic review of freshwater microplastics in water and sediments: Recommendations for harmonisation to enhance future study comparisons	Lu, HC; Ziajahromi, S; Neale, PA; Leusch, FDL	Science Of The Total Environment	2021	781	10.1016/j.scitotenv.2021.146693	5	10.753	**45.012**
16.66	Influence of Microplastics on the	Liu, GX; Dave, PH; Kwong,	Bulletin Of	2021	107	10.1007/s00	5	2.807	**13.228**

	Mobility, Bioavailability, and Toxicity of Heavy Metals: A Review	RWM; Wu, MJ; Zhong, H	Environmental Contamination And Toxicology			128-021-03339-9			
16.67	Combined polystyrene microplastics and chlorpyrifos decrease levels of nutritional parameters in muscle of rainbow trout (Oncorhynchus mykiss)	Hanachi, P; Karbalaei, S; Yu, SJ	Environmental Science And Pollution Research	2021	28	10.1007/s11356-021-15536-4	5	5.19	**22.760**
16.68	Size distribution measurement of microplastics using a temporally and spatially resolved inductively coupled plasma optical emission spectrometer (ICP-OES)	Teramoto, Y; Kim, HH	Journal Of Analytical Atomic Spectrometry	2021	36	10.1039/d1ja00114k	5	4.351	**19.404**
16.69	Influence of polystyrene microplastics on rotifer (Brachionus calyciflorus) growth, reproduction, and antioxidant responses	Liang, Y; Yang, XT; Wang, YS; Liu, R; Gu, HF; Mao, LJ	Aquatic Ecology	2021	55	10.1007/s10452-021-09885-y	5	2.218	**10.872**
16.70.	Exposure to polystyrene microplastics induced gene modulated biological responses in zebrafish (Danio rerio)	Umamaheswari, S; Priyadarshinee, S; Bhattacharjee, M; Kadirvelu, K; Ramesh, M	Chemosphere	2021	281	10.1016/j.chemosphere.2020.128592	5	8.943	**37.772**
16.71	A Review on Aquatic Impacts of Microplastics and Its Bioremediation Aspects	Jeyavani, J; Sibiya, A; Shanthini, S; Ravi, C; Vijayakumar, S; Rajan, DK; Vaseeharan, B	Current Pollution Reports	2021	7	10.1007/s40726-021-00188-2	5	8.097	**34.388**
16.72	Microplastics in the environment: Sampling, pretreatment, analysis and occurrence based on current and newly-exploited chromatographic approaches	Ainali, NM; Kalaronis, D; Kontogiannis, A; Evgenidou, E; Kyzas, GZ; Yang, X; Bikiaris, DN; Lambropoulou, DA	Science Of The Total Environment	2021	794	10.1016/j.scitotenv.2021.148725	5	10.753	**45.012**
16.73	Understanding the fate of nano-plastics in wastewater treatment plants and their removal using membrane processes	Mohana, AA; Farhad, SM; Haque, N; Pramanik, BK	Chemosphere	2021	284	10.1016/j.chemosphere.2021.131430	5	8.943	**37.772**
16.74	Micro and Nano Plastics Distribution in Fish as Model Organisms: Histopathology, Blood Response and Bioaccumulation in Different Organs	Guerrera, MC; Aragona, M; Porcino, C; Fazio, F; Laura, R; Levanti, M; Montalbano, G; Germana, G; Abbate, F; Germana, A	Applied Sciences-Basel	2021	11	10.3390/app11135768	5	2.838	**13.352**
16.75	Influences of different source	Yang, M; Huang, DY; Tian,	Ecotoxicology And	2021	222	10.1016/j.ec	5	7.129	**30.516**

	microplastics with different particle sizes and application rates on soil properties and growth of Chinese cabbage (Brassica chinensis L.)	YB; Zhu, QH; Zhang, Q; Zhu, HH; Xu, C	Environmental Safety			oenv.2021.112480			
16.76	Chronic exposure to UV-aged microplastics induces neurotoxicity by affecting dopamine, glutamate, and serotonin neurotransmission in Caenorhabditis elegans	Chen, HB; Hua, X; Yang, Y; Wang, C; Jin, LD; Dong, CY; Chang, ZF; Ding, P; Xiang, MD; Li, H; Yu, YJ	Journal Of Hazardous Materials	2021	419	10.1016/j.jhazmat.2021.126482	5	14.224	**58.896**
16.77	Do foodborne polyethylene microparticles affect the health of rainbow trout (Oncorhynchus mykiss)?	Hodkovicova, N; Hollerova, A; Caloudova, H; Blahova, J; Franc, A; Garajova, M; Lenz, J; Tichy, F; Faldyna, M; Kulich, P; Mares, J; Machat, R; Enevova, V; Svobodova, Z	Science Of The Total Environment	2021	793	10.1016/j.scitotenv.2021.148490	5	10.753	**45.012**
16.78	Micro- and nanoplastics in the environment: Occurrence, detection, characterization and toxicity-A critical review	Ali, I; Cheng, QH; Ding, TD; Qian, YG; Zhang, YC; Sun, HB; Peng, CS; Naz, I; Li, JY; Liu, JF	Journal Of Cleaner Production	2021	313	10.1016/j.jclepro.2021.127863	5	11.072	**46.288**
16.79	Heavy metal remediation by nano zero-valent iron in the presence of microplastics in groundwater: Inhibition and induced promotion on aging effects	Luo, ZY; Zhu, JY; Yu, L; Yin, K	Environmental Pollution	2021	287	10.1016/j.envpol.2021.117628	5	9.988	**41.952**
16.8	Impact of phthalates and bisphenols plasticizers on haemocyte immune function of aquatic invertebrates: A review on physiological, biochemical, and genomic aspects	Burgos-Aceves, MA; Abo-Al-Ela, HG; Faggio, C	Journal Of Hazardous Materials	2021	419	10.1016/j.jhazmat.2021.126426	5	14.224	**58.896**
16.81	Microparticles and microplastics released from daily use of plastic feeding and water bottles and plastic injectors: potential risks to infants and children in China	Song, K; Ding, RR; Sun, CY; Yao, LG; Zhang, WC	Environmental Science And Pollution Research	2021	28	10.1007/s11356-021-14939-7	5	5.19	**22.760**
16.82	Micro(nano)-plastics in the environment and risk of carcinogenesis: Insight into possible mechanisms	Alimba, CG; Faggio, C; Sivanesan, S; Ogunkanmi, AL; Krishnamurthi, K	Journal Of Hazardous Materials	2021	416	10.1016/j.jhazmat.2021.126143	5	14.224	**58.896**
16.83	Microplastics in different tissues of some commercially important fish	Rasta, M; Sattari, M; Taleshi, MS; Namin, JI	Marine Pollution Bulletin	2021	169	10.1016/j.marpolbul.2021	5	7.001	**30.004**

	species from Anzali Wetland in the Southwest Caspian Sea, Northern Iran					.112479			
16.84	Microplastics as a vehicle of exposure to chemical contamination in freshwater systems: Current research status and way forward	Eder, ML; Oliva-Teles, L; Pinto, R; Carvalho, AP; Almeida, CMR; Hornek-Gausterer, R; Guimaraes, L	Journal Of Hazardous Materials	2021	417	10.1016/j.jhazmat.2021.125980	5	14.224	**58.896**
16.85	Fast and easy quantification of semi-crystalline microplastics in exemplary environmental matrices by differential scanning calorimetry (DSC)	Bitter, H; Lackner, S	Chemical Engineering Journal	2021	423	10.1016/j.cej.2021.129941	5	16.744	**68.976**
16.86	An automatic flow-through system for exploration of the human bioaccessibility of endocrine disrupting compounds from microplastics	Sixto, A; El-Morabit, B; Trujillo-Rodriguez, MJ; Carrasco-Correa, EJ; Miro, M	Analyst	2021	146	10.1039/d1an00446h	5	5.227	**22.908**
16.87	Assessment of the effect of long-term exposure to microplastics and depuration period in Sparus aurata Linnaeus, 1758: Liver and blood biomarkers	Solomando, A; Capo, X; Alomar, C; Compa, M; Valencia, JM; Sureda, A; Deudero, S	Science Of The Total Environment	2021	786	10.1016/j.scitotenv.2021.147479	5	10.753	**45.012**
16.88	Are microplastics destabilizing the global network of terrestrial and aquatic ecosystem services?	Sridharan, S; Kumar, M; Bolan, NS; Singh, L; Kumar, S; Kumar, R; You, SM	Environmental Research	2021	198	10.1016/j.envres.2021.111243	5	8.431	**35.724**
16.89	Microplastics levels, size, morphology and composition in marine water, sediments and sand beaches. Case study of Tarragona coast (western Mediterranean)	Exposito, N; Rovira, J; Sierra, J; Folch, J; Schuhmacher, M	Science Of The Total Environment	2021	786	10.1016/j.scitotenv.2021.147453	5	10.753	**45.012**
16.9	Enhanced adsorption of polystyrene nanoplastics (PSNPs) onto oxidized corncob biochar with high pyrolysis temperature	Magid, ASIA; Islam, MS; Chen, YL; Weng, LP; Li, JB; Ma, J; Li, YT	Science Of The Total Environment	2021	784	10.1016/j.scitotenv.2021.147115	5	10.753	**45.012**
16.91	Polystyrene nanoplastics alter virus replication in orange-spotted grouper (Epinephelus coioides) spleen and brain tissues and spleen cells	Wang, Q; Duan, XZ; Huang, FQ; Cheng, HT; Zhang, CL; Li, LH; Ruan, XH; He, Q; Yang, HR; Niu, WB; Qin, QW; Zhao, HH	Journal Of Hazardous Materials	2021	416	10.1016/j.jhazmat.2021.125918	5	14.224	**58.896**
16.92	Optimising sample preparation for	Cunsolo, S; Williams, J; Hale,	Analytical And	2021	413	10.1007/s00	5	4.478	**19.912**

	FTIR-based microplastic analysis in wastewater and sludge samples: multiple digestions	M; Read, DS; Couceiro, F	Bioanalytical Chemistry			216-021-03331-6			
16.93	Treatment processes for microplastics and nanoplastics in waters: State-of-the-art review	Estahbanati, MRK; Kiendrebeogo, M; Mostafazadeh, AK; Drogui, P; Tyagi, RD	Marine Pollution Bulletin	2021	168	10.1016/j.marpolbul.2021.112374	5	7.001	**30.004**
16.94	Assessing plastic size distribution and quantity on a remote island in the South Pacific	Nichols, EC; Lavers, JL; Archer-Rand, S; Bond, AL	Marine Pollution Bulletin	2021	167	10.1016/j.marpolbul.2021.112366	5	7.001	**30.004**
16.95	In silico nanosafety assessment tools and their ecosystem-level integration prospect	Yu, HJ; Luo, D; Dai, LM; Cheng, F	Nanoscale	2021	13	10.1039/d1nr00115a	5	8.307	**35.228**
16.96	Study of the effects of nanoplastics ingestion in a freshwater fish (Danio rerio)	Brand, S; Nunes, D; Bastos, R; Falla, J; Dinizc, MS	Annals Of Medicine	2021	53	10.1080/07853890.2021.1897423	5	5.348	**23.392**
16.97	An Overview of the Sorption Studies of Contaminants on Poly(Ethylene Terephthalate) Microplastics in the Marine Environment	Lionetto, F; Corcione, CE	Journal Of Marine Science And Engineering	2021	9	10.3390/jmse9040445	5	2.744	**12.976**
16.98	Microplastics in the Aquatic Environment: Occurrence, Persistence, Analysis, and Human Exposure	Ricciardi, M; Pironti, C; Motta, O; Miele, Y; Proto, A; Montano, L	Water	2021	13	10.3390/w13070973	5	3.53	**16.120**
16.99	Potential Environmental and Human Health Risks Caused by Antibiotic-Resistant Bacteria (ARB), Antibiotic Resistance Genes (ARGs) and Emerging Contaminants (ECs) from Municipal Solid Waste (MSW) Landfill	Anand, U; Reddy, B; Singh, VK; Singh, AK; Kesari, KK; Tripathi, P; Kumar, P; Tripathi, V; Simal-Gandara, J	Antibiotics-Basel	2021	10	10.3390/antibiotics10040374	5	5.222	**22.888**
16.100.	The fate of plastic litter within estuarine compartments: An overview of current knowledge for the transboundary issue to guide future assessments	Pinheiro, LM; Agostini, VO; Lima, ARA; Ward, RD; Pinho, GLL	Environmental Pollution	2021	279	10.1016/j.envpol.2021.116908	5	9.988	**41.952**
16.101	Polystyrene Nanoplastics Can Alter the Toxicological Effects of	Barreto, A; Santos, J; Amorim, MJB; Maria, VL	Toxics	2021	9	10.3390/toxics9030044	5	4.472	**19.888**

	Simvastatin on Danio rerio								
16.102	Isotope ratio mass spectrometry and spectroscopic techniques for microplastics characterization	Birch, QT; Potter, PM; Pinto, PX; Dionysiou, DD; Al-Abed, SR	Talanta	2021	224	10.1016/j.talanta.2020.121743	5	6.556	**28.224**
16.103	Exposure to nanoplastics affects the outcome of infectious disease in phytoplankton	Schampera, C; Wolinska, J; Bachelier, JB; Machado, AAD; Rosal, R; Gonzalez-Pleiter, M; Agha, R	Environmental Pollution	2021	277	10.1016/j.envpol.2021.116781	5	9.988	**41.952**
16.104	Studying microplastics: Lessons from evaluated literature on animal model organisms and experimental approaches	Prokic, MD; Gavrilovic, BR; Radovanovic, TB; Gavric, JP; Petrovic, TG; Despotovic, SG; Faggio, C	Journal Of Hazardous Materials	2021	414	10.1016/j.jhazmat.2021.125476	5	14.224	**58.896**
16.105	An ecotoxicological approach to microplastics on terrestrial and aquatic organisms: A systematic review in assessment, monitoring and biological impact	Vazquez, OA; Rahman, MS	Environmental Toxicology And Pharmacology	2021	84	10.1016/j.etap.2021.103615	5	5.785	**25.140**
16.106	Micro- and nano-plastic pollution: Behavior, microbial ecology, and remediation technologies	Rai, PK; Lee, J; Brown, RJC; Kim, KH	Journal Of Cleaner Production	2021	291	10.1016/j.jclepro.2020.125240	5	11.072	**46.288**
16.107	Advances in Ultra-Trace Analytical Capability for Micro/Nanoplastics and Water-Soluble Polymers in the Environment: Fresh Falling Urban Snow	Wang, Z; Saade, NK; Ariya, PA	Environmental Pollution	2021	276	10.1016/j.envpol.2021.116698	5	9.988	**41.952**
16.108	Removal of micron-scale microplastic particles from different waters with efficient tool of surface-functionalized microbubbles	Zhang, M; Yang, JH; Kang, Z; Wu, XY; Tang, LF; Qiang, ZM; Zhang, DY; Pan, XL	Journal Of Hazardous Materials	2021	404	10.1016/j.jhazmat.2020.124095	5	14.224	**58.896**
16.109	Physiological and metabolic approach of plastic additive effects: Immune cells responses	Burgos-Aceves, MA; Abo-Al-Ela, HG; Faggio, C	Journal Of Hazardous Materials	2021	404	10.1016/j.jhazmat.2020.124114	5	14.224	**58.896**
16.11	Engineered technologies for the separation and degradation of microplastics in water: A review	Rodriguez-Narvaez, OM; Goonetilleke, A; Perez, L; Bandala, ER	Chemical Engineering Journal	2021	414	10.1016/j.cej.2021.128692	5	4.446	**19.784**
16.111	Microplastic's story	Schmid, C; Cozzarini, L; Zambello, E	Marine Pollution Bulletin	2021	162	10.1016/j.marpolbul.2020.111820	5	7.001	**30.004**
16.112	Microplastics in freshwater	Yang, L; Zhang, YL; Kang,	Science Of The Total	2021	754	10.1016/j.sci	5	10.753	**45.012**

	sediment: A review on methods, occurrence, and sources	SC; Wang, ZQ; Wu, CX	Environment			totenv.2020.141948			
16.113	Synthetic and natural microfibers induce gut damage in the brine shrimp Artemia franciscana	Kim, L; Kim, SA; Kim, TH; Kim, J; An, YJ	Aquatic Toxicology	2021	232	10.1016/j.aquatox.2021.105748	5	5.202	**22.808**
16.114	Microplastics in freshwater fishes: Occurrence, impacts and future perspectives	Parker, B; Andreou, D; Green, ID; Britton, JR	Fish And Fisheries	2021	22	10.1111/faf.12528	5	7.401	**31.604**
16.115	Current research trends on micro- and nano-plastics as an emerging threat to global environment: A review	Kumar, M; Chen, HY; Sarsaiya, S; Qin, SY; Liu, HM; Awasthi, MK; Kumar, S; Singh, L; Zhang, ZQ; Bolan, NS; Pandey, A; Varjani, S; Taherzadeh, MJ	Journal Of Hazardous Materials	2021	409	10.1016/j.jhazmat.2020.124967	5	14.224	**58.896**
16.116	Leveraging carbon dioxide to control the H-2/CO ratio in catalytic pyrolysis of fishing net waste	Choi, DH; Jung, SY; Lee, SS; Lin, KYA; Park, YK; Kim, H; Tsang, YF; Kwon, EE	Renewable & Sustainable Energy Reviews	2021	138	10.1016/j.rser.2020.110559	5	16.799	**69.196**
16.117	The need to investigate continuums of plastic particle diversity, brackish environments and trophic transfer to assess the risk of micro and nanoplastics on aquatic organisms	Latchere, O; Audroin, T; Hetier, J; Metais, I; Chatel, A	Environmental Pollution	2021	273	10.1016/j.envpol.2021.116449	5	9.988	**41.952**
16.118	Polystyrene nanoplastic induces oxidative stress, immune defense, and glycometabolism change in Daphnia pulex: Application of transcriptome profiling in risk assessment of nanoplastics	Liu, ZQ; Li, YM; Perez, E; Jiang, QC; Chen, Q; Jiao, Y; Huang, YY; Yang, Y; Zhao, YL	Journal Of Hazardous Materials	2021	402	10.1016/j.jhazmat.2020.123778	5	14.224	**58.896**
16.119	Metal type and aggregate microenvironment govern the response sequence of speciation transformation of different heavy metals to microplastics in soil	Yu, H; Zhang, Z; Zhang, Y; Fan, P; Xi, BD; Tan, WB	Science Of The Total Environment	2021	752	10.1016/j.scitotenv.2020.141956	5	10.753	**45.012**
16.12	Preliminary indoor evidences of microplastic effects on freshwater benthic macroinvertebrates	Gallitelli, L; Cera, A; Cesarini, G; Pietrelli, L; Scalici, M	Scientific Reports	2021	11	10.1038/s41598-020-80606-5	5	4.996	**21.984**
16.121	Analysis of environmental nanoplastics: Progress and	Cai, HW; Xu, EG; Du, FN; Li, RL; Liu, JF; Shi, HH	Chemical Engineering Journal	2021	410	10.1016/j.cej.2020.12820	5	4.446	**19.784**

	challenges					8			
16.122	Detection of microplastics in a digested complex organic medium by Raman Tweezers	Foti, A; Nalbone, L; Donato, MG; Marago, OM; Giarratana, F; Gucciardi, PG	2021 IEEE International Workshop On Metrology For The Sea (Metrosea 2021)	2021		10.1109/MetroSea52177.2021.9611592	5	0	**0.000**
16.123	Microplastics in marine fishes of economic importance in Lima, Peru	Iannacone, J; Principe, F; Minaya, D; Panduro, G; Carhuapoma, M; Alvarino, L	Revista De Investigaciones Veterinarias Del Peru	2021	32	10.15381/rivep.v32i2.20038	5	0	**0.000**
16.124	Valorization of synthetic textile waste using CO2 as a raw material in the catalytic pyrolysis process	Kwon, D; Yi, S; Jung, S; Kwon, EE	Environmental Pollution	2021	268	10.1016/j.envpol.2020.115916	5	9.988	**41.952**
16.125	Ingestion and toxicity of microplastics in the freshwater gastropod Lymnaea stagnalis: No microplastic-induced effects alone or in combination with copper	Weber, A; von Randow, M; Voigt, AL; von der Au, M; Fischer, E; Meermann, B; Wagner, M	Chemosphere	2021	263	10.1016/j.chemosphere.2020.128040	5	8.943	**37.772**
16.126	Acute growth inhibition & toxicity analysis of nano-polystyrene spheres on Raphidocelis subcapitata	Reynolds, A; Giltrap, M; Chambers, G	Ecotoxicology And Environmental Safety	2021	207	10.1016/j.ecoenv.2020.111153	5	7.129	**30.516**
16.127	Biogenic Aggregation of Small Microplastics Alters Their Ingestion by a Common Freshwater Micro-Invertebrate	Drago, C; Pawlak, J; Weithoff, G	Frontiers In Environmental Science	2020	8	10.3389/fenvs.2020.574274	5	5.411	**23.644**
16.128	Interactions between microplastics and organic pollutants: Effects on toxicity, bioaccumulation, degradation, and transport	Wang, T; Wang, L; Chen, QQ; Kalogerakis, N; Ji, R; Ma, YN	Science Of The Total Environment	2020	748	10.1016/j.scitotenv.2020.142427	5	10.753	**45.012**
16.129	Toxicity and biomarkers of micro-plastic in aquatic environment: a review	Suman, KH; Haque, MN; Uddin, MJ; Begum, MS; Sikder, MH	Biomarkers	2021	26	10.1080/1354750X.2020.1863470	5	2.663	**12.652**
16.13	Microplastic Contamination of Seafood Intended for Human Consumption: A Systematic Review and Meta-Analysis	Danopoulos, E; Jenner, LC; Twiddy, M; Rotchell, JM	Environmental Health Perspectives	2020	128	10.1289/EHP7171	5	9.031	**38.124**
16.131	Detection of Metal-Doped Fluorescent PVC Microplastics in Freshwater Mussels	Facchetti, SV; La Spina, R; Fumagalli, F; Riccardi, N; Gilliland, D; Ponti, J	Nanomaterials	2020	10	10.3390/nano10122363	5	5.076	**22.304**
16.132	Transport and Deposition of Microplastics and Mesoplastics along the River Course: A Case	Gallitelli, L; Cesarini, G; Cera, A; Sighicelli, M; Lecce, F; Menegoni, P; Scalici, M	Hydrology	2020	7	10.3390/hydrology7040090	5	0	**0.000**

	Study of a Small River in Central Italy								
16.133	Improving the efficiency of post-digestion method in extracting microplastics from gastrointestinal tract and gills of fish	Jaafar, N; Musa, SM; Azfaralariff, A; Mohamed, M; Yusoff, AH; Lazim, AM	Chemosphere	2020	260	10.1016/j.chemosphere.2020.127649	5	7.086	**30.344**
16.134	How can we trace microplastics in wastewater treatment plants: A review of the current knowledge on their analysis approaches	Kang, PY; Ji, B; Zhao, YG; Wei, T	Science Of The Total Environment	2020	745	10.1016/j.scitotenv.2020.140943	5	7.963	**33.852**
16.135	Microplastics in the environment: Interactions with microbes and chemical contaminants	Mammo, FK; Amoah, ID; Gani, KM; Pillay, L; Ratha, SK; Bux, F; Kumari, S	Science Of The Total Environment	2020	743	10.1016/j.scitotenv.2020.140518	5	7.963	**33.852**
16.136	Effect of microplastics and microplastic-metal combinations on growth and chlorophyll a concentration of Chlorella vulgaris	Tunali, M; Uzoefuna, EN; Tunali, MM; Yenigun, O	Science Of The Total Environment	2020	743	10.1016/j.scitotenv.2020.140479	5	7.963	**33.852**
16.137	Size-dependent cellular internalization and effects of polystyrene microplastics in microalgae P. helgolandica var. tsingtaoensis and S. quadricauda	Chen, YX; Ling, Y; Li, XY; Hu, JN; Cao, CJ; He, DF	Journal Of Hazardous Materials	2020	399	10.1016/j.jhazmat.2020.123092	5	10.588	**44.352**
16.138	Microplastic contamination of salt intended for human consumption: a systematic review and meta-analysis	Danopoulos, E; Jenner, L; Twiddy, M; Rotchell, JM	Sn Applied Sciences	2020	2	10.1007/s42452-020-03749-0	5	0	**0.000**
16.139	Probing the aging processes and mechanisms of microplastic under simulated multiple actions generated by discharge plasma	Zhou, LL; Wang, TC; Qu, GZ; Jia, HZ; Zhu, LY	Journal Of Hazardous Materials	2020	398	10.1016/j.jhazmat.2020.122956	5	10.588	**44.352**
16.14	Effects of microplastic exposure on the blood biochemical parameters in the pond turtle (Emys orbicularis)	Banaee, M; Gholamhosseini, A; Sureda, A; Soltanian, S; Fereidouni, MS; Ibrahim, ATA	Environmental Science And Pollution Research	2021	28	10.1007/s11356-020-11419-2	5	4.223	**18.892**
16.141	Estimation of the uptake and gut retention of microplastics in juvenile marine fish: Mummichogs (Fundulus heteroclitus) and red seabreams (Pagrus major)	Ohkubo, N; Ito, M; Hano, T; Kono, K; Mochida, K	Marine Pollution Bulletin	2020	160	10.1016/j.marpolbul.2020.111630	5	5.553	**24.212**
16.142	Long-term exposure to	Solomando, A; Capo, X;	Environmental Pollution	2020	266	10.1016/j.en	5	8.071	**34.284**

	microplastics induces oxidative stress and a pro-inflammatory response in the gut of Sparus aurata Linnaeus, 1758	Alomar, C; Alvarez, E; Compa, M; Valencia, JM; Pinya, S; Deudero, S; Sureda, A				vpol.2020.115295			
16.143	First quantification of semi-crystalline microplastics in industrial wastewaters	Bitter, H; Lackner, S	Chemosphere	2020	258	10.1016/j.chemosphere.2020.127388	5	7.086	**30.344**
16.138	Microplastic contamination of salt intended for human consumption: a systematic review and meta-analysis	Danopoulos, E; Jenner, L; Twiddy, M; Rotchell, JM	Sn Applied Sciences	2020	2	10.1007/s42452-020-03749-0	5	0	**0.000**
16.139	Probing the aging processes and mechanisms of microplastic under simulated multiple actions generated by discharge plasma	Zhou, LL; Wang, TC; Qu, GZ; Jia, HZ; Zhu, LY	Journal Of Hazardous Materials	2020	398	10.1016/j.jhazmat.2020.122956	5	10.588	**44.352**
16.14	Effects of microplastic exposure on the blood biochemical parameters in the pond turtle (Emys orbicularis)	Banaee, M; Gholamhosseini, A; Sureda, A; Soltanian, S; Fereidouni, MS; Ibrahim, ATA	Environmental Science And Pollution Research	2021	28	10.1007/s11356-020-11419-2	5	4.223	**18.892**
16.141	Estimation of the uptake and gut retention of microplastics in juvenile marine fish: Mummichogs (Fundulus heteroclitus) and red seabreams (Pagrus major)	Ohkubo, N; Ito, M; Hano, T; Kono, K; Mochida, K	Marine Pollution Bulletin	2020	160	10.1016/j.marpolbul.2020.111630	5	5.553	**24.212**
16.142	Long-term exposure to microplastics induces oxidative stress and a pro-inflammatory response in the gut of Sparus aurata Linnaeus, 1758	Solomando, A; Capo, X; Alomar, C; Alvarez, E; Compa, M; Valencia, JM; Pinya, S; Deudero, S; Sureda, A	Environmental Pollution	2020	266	10.1016/j.envpol.2020.115295	5	8.071	**34.284**
16.143	First quantification of semi-crystalline microplastics in industrial wastewaters	Bitter, H; Lackner, S	Chemosphere	2020	258	10.1016/j.chemosphere.2020.127388	5	7.086	**30.344**
16.144	Comparison of pyrolysis gas chromatography/mass spectrometry and hyperspectral FTIR imaging spectroscopy for the analysis of microplastics	Primpke, S; Fischer, M; Lorenz, C; Gerdts, G; Scholz-Bottcher, BM	Analytical And Bioanalytical Chemistry	2020	412	10.1007/s00216-020-02979-w	5	4.142	**18.568**
16.145	Raman spectra and surface changes of microplastics weathered under natural environments	Dong, MT; Zhang, QQ; Xing, XL; Chen, W; She, ZB; Luo, ZJ	Science Of The Total Environment	2020	739	10.1016/j.scitotenv.2020.139990	5	7.963	**33.852**

16.146	Acanthocephalans parasites of two Characiformes fishes as bioindicators of cadmium contamination in two neotropical rivers in Brazil	Duarte, GSC; Lehun, AL; Leite, LAR; Consolin, N; Bellay, S; Takemoto, RM	Science Of The Total Environment	2020	738	10.1016/j.scitotenv.2020.140339	5	7.963	**33.852**
16.147	A new digestion approach for the extraction of microplastics from gastrointestinal tracts (GITs) of the common dolphinfish (Coryphaena hippurus) from the western Mediterranean Sea	Schirinzi, GF; Peda, C; Battaglia, P; Laface, F; Galli, M; Baini, M; Consoli, P; Scotti, G; Esposito, V; Faggio, C; Farre, M; Barcelo, D; Fossi, MC; Andaloro, F; Romeo, T	Journal Of Hazardous Materials	2020	397	10.1016/j.jhazmat.2020.122794	5	10.588	**44.352**
16.148	Spatial distribution of microplastics in soil with context to human activities: a case study from the urban center	Rafique, A; Irfan, M; Mumtaz, M; Qadir, A	Environmental Monitoring And Assessment	2020	192	10.1007/s10661-020-08641-3	5	2.513	**12.052**
16.149	Microplastics and sorbed contaminants - Trophic exposure in fish sensitive early life stages	Cousin, X; Batel, A; Bringer, A; Hess, S; Begout, ML; Braunbeck, T	Marine Environmental Research	2020	161	10.1016/j.marenvres.2020.105126	5	3.13	**14.520**
16.15	Thermal analysis and enhanced visual technique for assessment of microplastics in fish from an Urban Harbor, Mediterranean Coast of Egypt	Shabaka, SH; Marey, RS; Ghobashy, M; Abushady, AM; Ismail, GA; Khairy, HM	Marine Pollution Bulletin	2020	159	10.1016/j.marpolbul.2020.111465	5	5.553	**24.212**
16.151	Toxicological effects of nano- and micro-polystyrene plastics on red tilapia: Are larger plastic particles more harmless?	Ding, JN; Huang, YJ; Liu, SJ; Zhang, SS; Zou, H; Wang, ZY; Zhu, WB; Geng, JJ	Journal Of Hazardous Materials	2020	396	10.1016/j.jhazmat.2020.122693	5	10.588	**44.352**
16.152	Consideration of emerging environmental contaminants in africa: Review of occurrence, formation, fate, and toxicity of plastic particles	Angnunavuri, PN; Attiogbe, F; Mensah, B	Scientific African	2020	9	10.1016/j.sciaf.2020.e00546	5	0	**0.000**
16.153	First evidence of microplastics in Cienfuegos bay, Cuba	Garcia-Chamero, A; Hernandez, CMA; Lago, DC	Ecosistemas	2020	29	10.7818/ECOS.2085	5	0	**0.000**
16.154	Nanoparticles as antibiotic-delivery vehicles (ADVs) overcome resistance by MRSA and other MDR bacterial pathogens: The grenade hypothesis	Alabresm, A; Chen, YP; Wichter-Chandler, S; Lead, J; Benicewicz, BC; Decho, AW	Journal Of Global Antimicrobial Resistance	2020	22	10.1016/j.jgar.2020.06.023	5	4.035	**18.140**

16.155	Critical Assessment of Analytical Methods for the Harmonized and Cost-Efficient Analysis of Microplastics	Primpke, S; Christiansen, SH; Cowger, W; De Frond, H; Deshpande, A; Fischer, M; Holland, EB; Meyns, M; O'Donnell, BA; Ossmann, BE; Pittroff, M; Sarau, G; Scholz-Bottcher, BM; Wiggin, KJ	Applied Spectroscopy	2020	74	10.1177/0003702820921465	5	2.388	**11.552**
16.156	A Novel Strategy for the Detection and Quantification of Nanoplastics by Single Particle Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	Jimenez-Lamana, J; Marigliano, L; Allouche, J; Grassl, B; Szpunar, J; Reynaud, S	Analytical Chemistry	2020	92	10.1021/acs.analchem.0c01536	5	6.986	**29.944**
16.157	Microplastics negatively impact embryogenesis and modulate the immune response of the marine medaka Oryzias melastigma	Chen, JC; Chen, MY; Fang, C; Zheng, RH; Jiang, YL; Zhang, YS; Wang, KJ; Bailey, C; Segner, H; Bo, J	Marine Pollution Bulletin	2020	158	10.1016/j.marpolbul.2020.111349	5	5.553	**24.212**
16.158	Using Boops boops (osteichthyes) to assess microplastic ingestion in the Mediterranean Sea	Tsangaris, C; Digka, N; Valente, T; Aguilar, A; Borrell, A; de Lucia, GA; Gambaiani, D; Garcia-Garin, O; Kaberi, H; Martin, J; Maurino, E; Miaud, C; Palazzo, L; del Olmo, AP; Raga, JA; Sbrana, A; Silvestri, C; Skylaki, E; Vighi, M; Wongdontree, P; Matiddi, M	Marine Pollution Bulletin	2020	158	10.1016/j.marpolbul.2020.111397	5	5.553	**24.212**
16.159	Microplastic contamination caused by different rearing modes of Asian swamp eel (Monopterus albus)	Lv, WW; Yuan, Q; He, DF; Lv, WG; Zhou, WZ	Aquaculture Research	2020	51	10.1111/are.14847	5	2.082	**10.328**
16.16	A review of the in fluences of microplastics on toxicity and transgenerational effects of pharmaceutical and personal care products in aquatic environment	Zhou, RR; Lu, GH; Yan, ZH; Jiang, RR; Bao, XH; Lu, P	Science Of The Total Environment	2020	732	10.1016/j.scitotenv.2020.139222	5	7.963	**33.852**
16.161	First report of heavy metal presence in muscular tissue of loggerhead turtlesCaretta caretta(Linnaeus, 1758) from the Balearic Sea (Balearic Islands, Spain)	Febrer-Serra, M; Renga, E; Fernandez, G; Lassnig, N; Tejada, S; Capo, X; Pinya, S; Sureda, A	Environmental Science And Pollution Research	2020	27	10.1007/s11356-020-10464-1	5	4.223	**18.892**
16.162	Correlative Microscopy and	Sarau, G; Kling, L; Ossmann,	Applied Spectroscopy	2020	74	10.1177/000	5	2.388	**11.552**

	Spectroscopy Workflow for Microplastics	BE; Unger, AK; Vogler, F; Christiansen, SH				3702820916250			
16.163	Immunotoxicity of petroleum hydrocarbons and microplastics alone or in combination to a bivalve species: Synergic impacts and potential toxication mechanisms	Sun, SG; Shi, W; Tang, Y; Han, Y; Du, XY; Zhou, WS; Hu, Y; Zhou, CS; Liu, GX	Science Of The Total Environment	2020	728	10.1016/j.scitotenv.2020.138852	5	7.963	**33.852**
16.164	A review on challenges and developments of analytical pyrolysis and other thermoanalytical techniques for the quali-quantitative determination of microplastics	La Nasa, J; Biale, G; Fabbri, D; Modugno, F	Journal Of Analytical And Applied Pyrolysis	2020	149	10.1016/j.jaap.2020.104841	5	5.541	**24.164**
16.165	Microplastic contamination of drinking water: A systematic review	Danopoulos, E; Twiddy, M; Rotchell, JM	Plos One	2020	15	10.1371/journal.pone.0236838	5	3.24	**14.960**
16.166	Nano-Sized Polystyrene at 1 mg/L Concentrations Does Not Show Strong Disturbance on the Freshwater Microbial Community	Zhang, ZY; Zheng, M; Chen, BF; Pan, YZ; Yang, ZH; Qian, HF	Bulletin Of Environmental Contamination And Toxicology	2021	107	10.1007/s00128-020-02956-0	5	2.807	**13.228**
16.167	Exposure route affects the distribution and toxicity of polystyrene nanoplastics in zebrafish	Zhang, R; Silic, MR; Schaber, A; Wasel, O; Freeman, JL; Sepulveda, MS	Science Of The Total Environment	2020	724	10.1016/j.scitotenv.2020.138065	5	7.963	**33.852**
16.167	Sources, transport, measurement and impact of nano and microplastics in urban watersheds	Birch, QT; Potter, PM; Pinto, PX; Dionysiou, DD; Al-Abed, SR	Reviews In Environmental Science And Bio-Technology	2020	19	10.1007/s11157-020-09529-x	5	8.044	**34.176**
16.168	Microplastics in aquatic environments: Toxicity to trigger ecological consequences	Ma, H; Pu, SY; Liu, SB; Bai, YC; Mandal, S; Xing, BS	Environmental Pollution	2020	261	10.1016/j.envpol.2020.114089	5	8.071	**34.284**
16.169	Microplastics in wild fish from North East Atlantic Ocean and its potential for causing neurotoxic effects, lipid oxidative damage, and human health risks associated with ingestion exposure	Barboza, LGA; Lopes, C; Oliveira, P; Bessa, F; Otero, V; Henriques, B; Raimundo, J; Caetano, M; Vale, C; Guilhermino, L	Science Of The Total Environment	2020	717	10.1016/j.scitotenv.2019.134625	5	7.963	**33.852**
16.17	Microplastic-environmental and drinking water problem	Mrowiec, B	Desalination And Water Treatment	2020	186	10.5004/dwt.2020.25327	5	1.254	**7.016**
16.171	An unintended challenge of microplastic pollution in the urban	Irfan, M; Qadir, A; Mumtaz, M; Ahmad, SR	Environmental Science And Pollution Research	2020	27	10.1007/s11356-020-	5	4.223	**18.892**

	surface water system of Lahore, Pakistan					08114-7			
16.172	Modulation of PAH toxicity on the freshwater organism G. roeseli by microparticles	Bartonitz, A; Anyanwu, IN; Geist, J; Imhof, HK; Reichel, J; Grassmann, J; Drewes, JE; Beggel, S	Environmental Pollution	2020	260	10.1016/j.envpol.2020.113999	5	8.071	**34.284**
16.173	Microplastics Removal from Treated Wastewater by a Biofilter	Liu, F; Nord, NB; Bester, K; Vollertsen, J	Water	2020	12	10.3390/w12041085	5	1.247	**6.988**
16.174	Pb 2+ions adsorption onto raw and chemically activated Dibetou sawdust: Application of experimental designs	El Hajam, M; Kandri, NI; Plavan, GI; Harrath, AH; Mansour, L; Boufahja, F; Zerouale, A	Journal Of King Saud University Science	2020	32		5	4.011	**18.044**
16.175	Cotransport of naphthalene with polystyrene nanoplastics (PSNP) in saturated porous media: Effects of PSNP/naphthalene ratio and ionic strength	Hu, EZ; Shang, SY; Fu, ZT; Zhao, X; Nan, XL; Du, YC; Chen, XJ	Chemosphere	2020	245	10.1016/j.chemosphere.2019.125602	5	7.086	**30.344**
16.176	Microplastics and copper effects on the neotropical teleost Prochilodus lineatus: Is there any interaction?	Roda, JFB; Lauer, MM; Risso, WE; Martinez, CBD	Comparative Biochemistry And Physiology A-Molecular & Integrative Physiology	2020	242	10.1016/j.cbpa.2020.110659	5	2.32	**11.280**
16.177	Establishment of a brain cell line (FuB-1) from mummichog (Fundulus heteroclitus) and its application to fish virology, immunity and nanoplastics toxicology	Ruiz-Palacios, M; Almeida, M; Martins, MA; Oliveira, M; Esteban, MA; Cuesta, A	Science Of The Total Environment	2020	708	10.1016/j.scitotenv.2019.134821	5	7.963	**33.852**
16.178	Kinetic and mechanistic aspects of ultrafiltration membrane fouling by nano- and microplastics	Enfrin, M; Lee, J; Le-Clech, P; Dumee, LF	Journal Of Membrane Science	2020	601	10.1016/j.memsci.2020.117890	5	8.742	**36.968**
16.179	Immunotoxicity of microplastics and two persistent organic pollutants alone or in combination to a bivalve species	Tang, Y; Rong, JH; Guan, XF; Zha, SJ; Shi, W; Han, Y; Du, XY; Wu, FZ; Huang, W; Liu, GX	Environmental Pollution	2020	258	10.1016/j.envpol.2019.113845	5	8.071	**34.284**
16.18	Detection of microplastics using inductively coupled plasma-mass spectrometry (ICP-MS) operated in single-event mode	Bolea-Fernandez, E; Rua-Ibarz, A; Velimirovic, M; Tirez, K; Vanhaecke, F	Journal Of Analytical Atomic Spectrometry	2020	35	10.1039/c9ja00379g	5	4.023	**18.092**
16.181	An overview of microplastics characterization by thermal analysis	Penalver, R; Arroyo-Manzanares, N; Lopez-Garcia,	Chemosphere	2020	242	10.1016/j.chemosphere.2	5	7.086	**30.344**

		I; Hernandez-Cordoba, M				019.125170			
16.182	Do nanoplastics impact the ability of the polychaeta Hediste diversicolor to regenerate?	Silva, MSS; Oliveira, M; Lopez, D; Martins, M; Figueira, E; Pires, A	Ecological Indicators	2020	110	10.1016/j.ecolind.2019.105921	5	4.958	**21.832**
16.183	Preparation and characterization novel dioctyl terephthalate blended polyvinyl alcohol-composite films incorporated with the graphene oxide and silver nanoparticles	Ceran, OB; Simsek, B; Sara, ON	Polymer Testing	2020	82	10.1016/j.polymertesting.2019.106315	5	4.282	**19.128**
16.184	Effect of nanoplastics on fish health and performance: A review	Barria, C; Brandts, I; Tort, L; Oliveira, M; Teles, M	Marine Pollution Bulletin	2020	151	10.1016/j.marpolbul.2019.110791	5	5.553	**24.212**
16.185	Effects of food presence on microplastic ingestion and egestion in Mytilus galloprovincialis	Chae, Y; An, YJ	Chemosphere	2020	240	10.1016/j.chemosphere.2019.124855	5	7.086	**30.344**
16.186	Pharmaceuticals, pesticides, personal care products and microplastics contamination assessment of Al-Hassa irrigation network (Saudi Arabia) and its shallow lakes	Pico, Y; Alvarez-Ruiz, R; Alfarhan, AH; El-Sheikh, MA; Alshahrani, HO; Barcelo, D	Science Of The Total Environment	2020	701	10.1016/j.scitotenv.2019.135021	5	7.963	**33.852**
16.187	Microplastic contamination in Penaeid shrimp from the Northern Bay of Bengal	Hossain, MS; Rahman, MS; Uddin, MN; Sharifuzzaman, SM; Chowdhury, SR; Sarker, S; Chowdhury, MSN	Chemosphere	2020	238	10.1016/j.chemosphere.2019.124688	5	7.086	**30.344**
16.188	Impacts of polystyrene microplastics on the behavior and metabolism in a marine demersal teleost, black rockfish (Sebastes schlegelii)	Yin, LY; Liu, HY; Cui, HW; Chen, BJ; Li, LL; Wu, F	Journal Of Hazardous Materials	2019	380	10.1016/j.jhazmat.2019.120861	5	9.038	**38.152**
16.189	Potential health impact of environmental micro- and nanoplastics pollution	Chang, XR; Xue, YY; Li, JY; Zou, LY; Tang, M	Journal Of Applied Toxicology	2020	40	10.1002/jat.3915	5	3.446	**15.784**
16.19	Evaluation of single and combined effects of cadmium and micro-plastic particles on biochemical and immunological parameters of common carp (Cyprinus carpio)	Banaee, M; Soltanian, S; Sureda, A; Gholamhosseini, A; Haghi, BN; Akhlaghi, M; Derikvandy, A	Chemosphere	2019	236	10.1016/j.chemosphere.2019.07.066	5	5.778	**25.112**
16.191	Plastic sources: A survey across scientific and grey literature for	Galafassi, S; Nizzetto, L; Volta, P	Science Of The Total Environment	2019	693	10.1016/j.scitotenv.2019.	5	6.551	**28.204**

	their inventory and relative contribution to microplastics pollution in natural environments, with an emphasis on surface water					07.305			
16.192	Detection of artificial cellulose microfibers in Boops boops from the northern coasts of Sicily (Central Mediterranean)	Savoca, S; Capillo, G; Mancuso, M; Faggio, C; Panarello, G; Crupi, R; Bonsignore, M; D'Urso, L; Compagnini, G; Neri, F; Fazio, E; Romeo, T; Bottari, T; Spano, N	Science Of The Total Environment	2019	691	10.1016/j.scitotenv.2019.07.148	5	6.551	**28.204**
16.193	Profiling microplastics in the Indian edible oyster, Magallana bilineata collected from the Tuticorin coast, Gulf of Mannar, Southeastern India	Patterson, J; Jeyasanta, KI; Sathish, N; Booth, AM; Edward, JKP	Science Of The Total Environment	2019	691	10.1016/j.scitotenv.2019.07.063	5	6.551	**28.204**
16.194	Microplastics in fishes from the Northern Bay of Bengal	Hossain, MS; Sobhan, F; Uddin, MN; Sharifuzzaman, SM; Chowdhury, SR; Sarker, S; Chowdhury, MSN	Science Of The Total Environment	2019	690	10.1016/j.scitotenv.2019.07.065	5	6.551	**28.204**
16.195	Wastewater treatment plants as a source of plastics in the environment: a review of occurrence, methods for identification, quantification and fate	Okoffo, ED; O'Brien, S; O'Brien, JW; Tscharke, BJ; Thomas, KV	Environmental Science-Water Research & Technology	2019	5	10.1039/c9ew00428a	5	3.449	**15.796**
16.196	Effects of microplastics on the innate immunity and intestinal microflora of juvenile Eriocheir sinensis	Liu, ZQ; Yu, P; Cai, MQ; Wu, DL; Zhang, M; Chen, MH; Zhao, YL	Science Of The Total Environment	2019	685	10.1016/j.scitotenv.2019.06.265	5	6.551	**28.204**
16.197	A flow-based platform hyphenated to on-line liquid chromatography for automatic leaching tests of chemical additives from microplastics into seawater	Fikarova, K; Cocovi-Solberg, DJ; Rosende, M; Horstkotte, B; Sklenalova, H; Miro, M	Journal Of Chromatography A	2019	1602	10.1016/j.chroma.2019.06.041	5	4.049	**18.196**
16.198	An assessment of the toxicity of polypropylene microplastics in human derived cells	Hwang, J; Choi, D; Han, S; Choi, J; Hong, J	Science Of The Total Environment	2019	684	10.1016/j.scitotenv.2019.05.071	5	6.551	**28.204**
16.199	Nano/microplastics in water and wastewater treatment processes - Origin, impact and potential	Enfrin, M; Dumee, LF; Lee, J	Water Research	2019	161	10.1016/j.watres.2019.06.049	5	9.13	**38.520**

	solutions								
16.200.	Microplastic debris in beaches of Tenerife (Canary Islands, Spain)	Alvarez-Hernandez, C; Cairos, C; Lopez-Darias, J; Mazzetti, E; Hernandez-Sanchez, C; Gonzalez-Salamo, J; Hernandez-Borges, J	Marine Pollution Bulletin	2019	146	10.1016/j.marpolbul.2019.05.064	5	4.049	**18.196**
16.201	Microplastic ingestion in deep-sea fish from the South China Sea	Zhu, L; Wang, H; Chen, BJ; Sun, XM; Qu, KM; Xia, B	Science Of The Total Environment	2019	677	10.1016/j.scitotenv.2019.04.380	5	6.551	**28.204**
16.202	Toxicological Evaluation and Quantification of Ingested Metal-Core Nanoplastic by Daphnia magna Through Fluorescence and Inductively Coupled Plasma-Mass Spectrometric Methods	Vicentini, DS; Nogueira, DJ; Melegari, SP; Arl, M; Koerich, JS; Cruz, L; Justino, NM; Oscar, BV; Puerari, RC; da Silva, MLN; Simioni, C; Ouriques, LC; Matias, MS; de Castilhos, AB; Matias, WG	Environmental Toxicology And Chemistry	2019	38	10.1002/etc.4528	5	3.152	**14.608**
16.203	Soap- and metal-free polystyrene latex particles as a nanoplastic model	Pessoni, L; Veclin, C; El Hadri, H; Cugnet, C; Davranche, M; Pierson-Wickmann, AC; Gigault, J; Grassl, B; Reynaud, S	Environmental Science-Nano	2019	6	10.1039/c9en00384c	5	7.683	**32.732**
16.204	Effect of long-term exposure of silver nanoparticles on growth indices, hematological and biochemical parameters and gonad histology of male goldfish (Carassius auratus gibelio)	Vajargah, MF; Imanpoor, MR; Shabani, A; Hedayati, A; Faggio, C	Microscopy Research And Technique	2019	82	10.1002/jemt.23271	5	2.117	**10.468**
16.205	Integrating Aquatic and Terrestrial Perspectives to Improve Insights Into Organic Matter Cycling at the Landscape Scale	Kayler, ZE; Premke, K; Gessler, A; Gessner, MO; Griebler, C; Hilt, S; Klemedtsson, L; Kuzyakov, Y; Reichstein, M; Siemens, J; Totsche, KU; Tranvik, L; Wagner, A; Weitere, M; Grossart, HP	Frontiers In Earth Science	2019	7	10.3389/feart.2019.00127	5	2.689	**12.756**
16.206	Typhoons increase the abundance of microplastics in the marine environment and cultured organisms: A case study in	Wang, J; Lu, L; Wang, MX; Jiang, T; Liu, XS; Ru, SG	Science Of The Total Environment	2019	667	10.1016/j.scitotenv.2019.02.367	5	6.551	**28.204**

	Sanggou Bay, China								
16.207	Occurrence and identification of microplastics along a beach in the Biosphere Reserve of Lanzarote	Edo, C; Tamayo-Belda, M; Martinez-Campos, S; Martin-Betancor, K; Gonzalez-Pleiter, M; Pulido-Reyes, G; Garcia-Ruiz, C; Zapata, F; Leganes, F; Fernandez-Pinas, F; Rosal, R	Marine Pollution Bulletin	2019	143	10.1016/j.marpolbul.2019.04.061	5	4.049	**18.196**
16.208	Sub-lethal effects of dimethoate alone and in combination with cadmium on biochemical parameters in freshwater snail, Galba truncatula	Banaee, M; Sureda, A; Taheri, S; Hedayatzadeh, F	Comparative Biochemistry And Physiology C-Toxicology & Pharmacology	2019	220	10.1016/j.cbpc.2019.03.002	5	2.892	**13.568**
16.209	Current research trends on microplastic pollution from wastewater systems: a critical review	Hu, YL; Gong, MY; Wang, JY; Bassi, A	Reviews In Environmental Science And Bio-Technology	2019	18	10.1007/s11157-019-09498-w	5	4.957	**21.828**
16.21	Effects of microplastics on microalgae populations: A critical review	Prata, JC; da Costa, JP; Lopes, I; Duarte, AC; Rocha-Santos, T	Science Of The Total Environment	2019	665	10.1016/j.scitotenv.2019.02.132	5	6.551	**28.204**
16.212	Microplastics in the marine environment: Current trends in environmental pollution and mechanisms of toxicological profile	Alimba, CG; Faggio, C	Environmental Toxicology And Pharmacology	2019	68	10.1016/j.etap.2019.03.001	5	3.292	**15.168**
16.213	Microplastics occurrence in the Tyrrhenian waters and in the gastrointestinal tract of two congener species of seabreams	Savoca, S; Capillo, G; Mancuso, M; Bottari, T; Crupi, R; Branca, C; Romano, V; Faggio, C; D'Angelo, G; Spano, N	Environmental Toxicology And Pharmacology	2019	67	10.1016/j.etap.2019.01.011	5	3.292	**15.168**
16.214	Genotoxic, cytotoxic, and neurotoxic responses in Anodonta cygnea after complex metal mixture treatment	Butrimaviciene, L; Stankeviciute, M; Kalciene, V; Joksas, K; Barsiene, J	Environmental Science And Pollution Research	2019	26	10.1007/s11356-019-04206-1	5	3.056	**14.224**
16.215	Ecotoxicological effects of microplastics: Examination of biomarkers, current state and future perspectives	Prokic, MD; Radovanovic, TB; Gavric, JP; Faggio, C	Trac-Trends In Analytical Chemistry	2019	111	10.1016/j.trac.2018.12.001	5	9.801	**41.204**
17	Reduced Graphene Oxide Embedded Polymeric Nanofiber Mats: An, On-Demand'	Altinbasak, R. Jijie, A. Barras, B. Golba, R. Sanyal, J. Bouckaert, D. Drider, R.	Acs Applied Materials & Interfaces	2018	10	10.1021/acsami.8b14784	4	8.456	**607.820**

	Photothermaly-Triggered Antibiotic Release Platform	Bilyy, T. Dumych, S. Paryzak, V. Vovk, R. Boukherroub, A. Sanyal, S. Szunerits							
17.1	Antibacterial and antioxidant films based on HA/Gr/TA fabricated using electrospinning for wound healing	Bao, X; Zhu, QY; Chen, YY; Tang, HJ; Deng, WM; Guo, HX; Zeng, L	International Journal Of Pharmaceutics	2022	626	10.1016/j.ijpharm.2022.122139	14	6.51	**10.014**
17.2	Strategies and progresses for enhancing targeted antibiotic delivery	Nazli, A; He, DL; Liao, DD; Khan, MZI; Huang, C; He, Y	Advanced Drug Delivery Reviews	2022	189	10.1016/j.addr.2022.114502	14	17.873	**26.247**
17.3	Environmental and health effects of graphene-family nanomaterials: Potential release pathways, transformation, environmental fate and health risks	Ding, XM; Pu, YP; Tang, M; Zhang, T	Nano Today	2022	42	10.1016/j.nantod.2022.101379	14	18.962	**27.803**
17.4	Nanomaterials-based Drug Delivery Approaches for Wound Healing	Girija, AR; Balasubramanian, S; Cowin, AJ	Current Pharmaceutical Design	2022	28	10.2174/1381612828666220328121211	14	3.31	**5.443**
17.5	An Overview for the Design of Antimicrobial Polymers: From Standard Antibiotic-Release Systems to Topographical and Smart Materials	Palza, H; Barraza, B; Olate-Moya, F	Annual Review Of Materials Research	2022	52	10.1146/annurev-matsci-081720-105705	14	13.972	**20.674**
17.6	Infection microenvironment-related antibacterial nanotherapeutic strategies	Wang, Z; Liu, XY; Duan, YW; Huang, Y	Biomaterials	2022	280	10.1016/j.biomaterials.2021.121249	14	15.304	**22.577**
17.7	Conductive Biomaterials as Bioactive Wound Dressing for Wound Healing and Skin Tissue Engineering	Yu, R; Zhang, HL; Guo, BL	Nano-Micro Letters	2022	14	10.1007/s40820-021-00751-y	14	23.655	**34.507**
17.8	Photothermal Activatable Mucoadhesive Fiber Mats for On-Demand Delivery of Insulin via Buccal and Corneal Mucosa	Voronova, A; Prieto, C; Pardo-Figuerez, M; Lagaron, JM; Sanyal, A; Demir, B; Hubert, T; Plaisance, V; Pawlowski, V; Vignoud-Despond, S; Barras, A; Abderrahmani, A; Boukherroub, R; Szunerits, S	Acs Applied Bio Materials	2022	5	10.1021/acsabm.1c01161	14	0	**0.000**
17.9	Innovative transdermal delivery of	Demir, B; Rosselle, L;	Nanoscale Horizons	2022	7	10.1039/d1n	14	11.684	**17.406**

	insulin using gelatin methacrylate-based microneedle patches in mice and mini-pigs	Voronova, A; Pagneux, Q; Quenon, A; Gmyr, V; Jary, D; Hennuyer, N; Staels, B; Hubert, T; Abderrahmani, A; Plaisance, V; Pawlowski, V; Boukherroub, R; Vignoud, S; Szunerits, S				h00596k			
17.1	Hydrophilic Cross-Linked Polymeric Nanofibers Using Electrospinning: Imparting Aqueous Stability to Enable Biomedical Applications	Golba, B; Kalaoglu-Altan, OI; Sanyal, R; Sanyal, A	Acs Applied Polymer Materials	2022	4	10.1021/acsapm.1c01286	14	4.855	**7.650**
17.11	Recent Advances in Functional Polymer Materials for Energy, Water, and Biomedical Applications: A Review	EL-Ghoul, Y; Alminderej, FM; Alsubaie, FM; Alrasheed, R; Almousa, NH	Polymers	2021	13	10.3390/polym13244327	14	2.24	**3.914**
17.12	On-Demand Drug Delivery Systems Using Nanofibers	Singh, B; Kim, K; Park, MH	Nanomaterials	2021	11	10.3390/nano11123411	14	5.719	**8.884**
17.13	ZnL2-BPs Integrated Bone Scaffold under Sequential Photothermal Mediation: A Win-Win Strategy Delivering Antibacterial Therapy and Fostering Osteogenesis Thereafter	Wu, YZ; Liao, Q; Wu, L; Luo, YX; Zhang, W; Guan, M; Pan, HB; Tong, LP; Chu, PK; Wang, HY	Acs Nano	2021	15	10.1021/acsnano.1c06062	14	18.027	**26.467**
17.14	Electrospun gold nanorods/graphene oxide loaded-core-shell nanofibers for local delivery of paclitaxel against lung cancer during photo-chemotherapy method	Azerbaijan, MH; Bahmani, E; Jouybari, MH; Hassaniazardaryani, A; Goleij, P; Akrami, M; Irani, M	European Journal Of Pharmaceutical Sciences	2021	164	10.1016/j.ejps.2021.105914	14	5.112	**8.017**
17.15	Novel fabrication of antibiotic containing multifunctional silk fibroin injectable hydrogel dressing to enhance bactericidal action and wound healing efficiency on burn wound: In vitro and in vivo evaluations	Dong, MP; Mao, Y; Zhao, ZW; Zhang, JB; Zhu, LP; Chen, LL; Cao, LX	International Wound Journal	2022	19	10.1111/iwj.13665	14	3.099	**5.141**
17.16	Research progress on the biomedical uses of graphene and its derivatives	Liu, Y; Ding, J; Wang, QQ; Wen, ML; Tang, TT; Liu, Y; Yuan, R; Li, YF; An, MW	New Carbon Materials	2021	36	10.1016/S1872-5805(21)600	14	3.7	**6.000**

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17.17	Advancements in release-active antimicrobial biomaterials: A journey from release to relief	Bhattacharjee, B; Ghosh, S; Patra, D; Haldar, J	Wiley Interdisciplinary Reviews-Nanomedicine And Nanobiotechnology	2022	14	10.1002/wnan.1745	14	9.423	**14.176**
17.18	The role of nanomaterials and antibiotics in microbial resistance and environmental impact: an overview	Herrera, G; Pena-Bahamonde, J; Paudel, S; Rodrigues, DF	Current Opinion In Chemical Engineering	2021	33	10.1016/j.coche.2021.100707	14	6.117	**9.453**
17.19	Graphene films irradiated with safe low-power NIR-emitting diodes kill multidrug resistant bacteria	Henriques, PC; Pereira, AT; Bogas, D; Fenandes, JR; Pinto, AM; Magalhaes, FD; Goncalves, IC	Carbon	2021	180	10.1016/j.carbon.2021.04.085	14	11.307	**16.867**
17.2	Graphene Oxide-Based Stimuli-Responsive Platforms for Biomedical Applications	Patil, TV; Patel, DK; Dutta, SD; Ganguly, K; Lim, KT	Molecules	2021	26	10.3390/molecules26092797	14	4.927	**7.753**
17.21	Emerging Functional Biomaterials as Medical Patches	Wang, Y; Chen, GP; Zhang, H; Zhao, C; Sun, LY; Zhao, YJ	Acs Nano	2021	15	10.1021/acsnano.0c10724	14	18.027	**26.467**
17.22	Targeted polymer-based antibiotic delivery system: A promising option for treating bacterial infections via macromolecular approaches	Wang, TJ; Rong, F; Tang, YZ; Li, MY; Feng, T; Zhou, Q; Li, P; Huang, W	Progress In Polymer Science	2021	116	10.1016/j.progpolymsci.2021.101389	14	31.281	**45.401**
17.23	Biomedical Applications of Electrospun Graphene Oxide	Grant, JJ; Pillai, SC; Hehir, S; McAfee, M; Breen, A	Acs Biomaterials Science & Engineering	2021	7	10.1021/acsbiomaterials.0c01663	14	5.395	**8.421**
17.24	Graphene oxide with acid-activated bacterial membrane anchoring for improving synergistic antibacterial performances	Huo, SH; Gao, YM; Fang, LL; Jiang, ZT; Xie, QH; Meng, QY; Fei, GH; Ding, SG	Applied Surface Science	2021	551	10.1016/j.apsusc.2021.149444	14	7.392	**11.274**
17.25	Functionalized Reduced Graphene Oxide as a Versatile Tool for Cancer Therapy	Dash, BS; Jose, G; Lu, YJ; Chen, JP	International Journal Of Molecular Sciences	2021	22	10.3390/ijms22062989	14	6.208	**9.583**
17.26	Controlled drug delivery systems in eradicating bacterial biofilm-associated infections	Liu, Y; Li, YF; Shi, LQ	Journal Of Controlled Release	2021	329	10.1016/j.jconrel.2020.10.038	14	11.467	**17.096**
17.27	Photothermally Active Cryogel Devices for Effective Release of Antimicrobial Peptides: On-Demand Treatment of Infections	Chambre, L; Rosselle, L; Barras, A; Aydin, D; Loczechin, A; Gunbay, S; Sanyal, R; Skandrani, N;	Acs Applied Materials & Interfaces	2020	12	10.1021/acsami.0c17633	14	9.229	**13.899**

		Metzler-Nolte, N; Bandow, JE; Boukherroub, R; Szunerits, S; Sanyal, A							
17.28	A review of smart electrospun fibers toward textiles	Liu, L; Xu, WH; Ding, YC; Agarwal, S; Greiner, A; Duan, GG	Composites Communications	2020	22	10.1016/j.coco.2020.100506	14	6.617	**10.167**
17.29	An 'on-demand' photothermal antibiotic release cryogel patch: evaluation of efficacy on an ex vivo model for skin wound infection	Rosselle, L; Cantelmo, AR; Barras, A; Skandrani, N; Pastore, M; Aydin, D; Chambre, L; Sanyal, R; Sanyal, A; Boukherroub, R; Szunerits, S	Biomaterials Science	2020	8	10.1039/d0bm01535k	14	6.843	**10.490**
17.3	Advances in Functional Polymer Nanofibers: From Spinning Fabrication Techniques to Recent Biomedical Applications	dos Santos, DM; Correa, DS; Medeiros, ES; Oliveira, JE; Mattoso, LHC	Acs Applied Materials & Interfaces	2020	12	10.1021/acsami.0c12410	14	9.229	**13.899**
17.31	MXene-Based Hydrogels Endow Polyetheretherketone with Effective Osteogenicity and Combined Treatment of Osteosarcoma and Bacterial Infection	Yin, J; Han, QY; Zhang, JC; Liu, YX; Gan, XQ; Xie, KN; Xie, L; Deng, Y	Acs Applied Materials & Interfaces	2020	12	10.1021/acsami.0c14752	14	9.229	**13.899**
17.32	Micropatterned Reactive Nanofibers: Facile Fabrication of a Versatile Biofunctionalizable Interface	Kalaoglu-Altan, OI; Sanyal, R; Sanyal, A	Acs Applied Polymer Materials	2020	2	10.1021/acsapm.0c00665	14	4.089	**6.556**
17.33	Preparation of Highly Swelling/Antibacterial Cross-Linked N-Maleoyl-Functional Chitosan/Polyethylene Oxide Nanofiber Meshes for Controlled Antibiotic Release	Chen, CK; Liao, MG; Wu, YL; Fang, ZY; Chen, JA	Molecular Pharmaceutics	2020	17	10.1021/acs.molpharmaceut.0c00504	14	4.939	**7.770**
17.34	Two Sides of Electrospun Fiber in Promoting and Inhibiting Biomedical Processes	Wang, Z; Cui, WG	Advanced Therapeutics	2021	4	10.1002/adtp.202000096	14	0	**0.000**
17.35	2D and 3D electrospinning technologies for the fabrication of nanofibrous scaffolds for skin tissue engineering: A review	Keirouz, A; Chung, MH; Kwon, J; Fortunato, G; Radacsi, N	Wiley Interdisciplinary Reviews-Nanomedicine And Nanobiotechnology	2020	12	10.1002/wnan.1626	14	9.182	**13.831**
17.36	Injectable Antimicrobial Conductive Hydrogels for Wound	Liang, YP; Chen, BJ; Li, M; He, JH; Yin, ZH; Guo, BL	Biomacromolecules	2020	21	10.1021/acs.biomac.9b01	14	6.988	**10.697**

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17.37	3D printed nanomaterial-based electronic, biomedical, and bioelectronic devices	Hales, S; Tokita, E; Neupane, R; Ghosh, U; Elder, B; Wirthlin, D; Kong, YL	Nanotechnology	2020	31	10.1088/1361-6528/ab5f29	14	5.913	**9.161**
17.38	Near-Infrared-Light-Assisted in Situ Reduction of Antimicrobial Peptide-Protected Gold Nanoclusters for Stepwise Killing of Bacteria and Cancer Cells	Zhu, SX; Wang, XY; Li, SL; Liu, L; Li, LD	Acs Applied Materials & Interfaces	2020	12	10.1021/acsami.0c00310	14	9.229	**13.899**
17.39	Graphene Oxide Nanosheets for Localized Hyperthermia-Physicochemical Characterization, Biocompatibility, and Induction of Tumor Cell Death	Podolska, MJ; Barras, A; Alexiou, C; Frey, B; Gaipl, U; Boukherroub, R; Szunerits, S; Janko, C; Munoz, LE	Cells	2020	9	10.3390/cells9030776	14	6.6	**10.143**
17.4	Photothermally Activated Electrospun Nanofiber Mats for High-Efficiency Surface-Mediated Gene Transfection	Zheng, YJ; Wu, Y; Zhou, Y; Wu, JX; Wang, XY; Qu, YC; Wang, YR; Zhang, YX; Yu, Q	Acs Applied Materials & Interfaces	2020	12	10.1021/acsami.9b20221	14	9.229	**13.899**
17.41	A Facile Route to Fabricate CS/GO Composite Film for the Application of Therapeutic Contact Lenses	Chen, P; Wang, X; Kong, JY; Hu, XH	Advances In Materials Science And Engineering	2020	2020	10.1155/2020/8476025	14	1.726	**3.180**
17.42	Antibiotic Delivery Strategies to Treat Skin Infections When Innate Antimicrobial Defense Fails	Smith, R; Russo, J; Fiegel, J; Brogden, N	Antibiotics-Basel	2020	9	10.3390/antibiotics9020056	14	4.639	**7.341**
17.43	Recent advances in biomaterials for 3D scaffolds: A review	Nikolova, MP; Chavali, MS	Bioactive Materials	2019	4	10.1016/j.bioactmat.2019.10.005	14	8.724	**13.177**
17.44	Near-infrared light activatable hydrogels for metformin delivery	Li, CN; Pagneux, Q; Voronova, A; Barras, A; Abderrahmani, A; Plaisance, V; Pawlowski, V; Hennuyer, N; Staels, B; Rosselle, L; Skandrani, N; Li, MS; Boukherroub, R; Szunerits, S	Nanoscale	2019	11	10.1039/c9nr02707f	14	6.895	**10.564**
17.45	Nanobiomaterials: from 0D to 3D for tumor therapy and tissue regeneration	Liu, YQ; Yu, QQ; Chang, J; Wu, CT	Nanoscale	2019	11	10.1039/c9nr02955a	14	6.895	**10.564**
17.46	Ultra-fast enrichment and reduction of As(V)/Se(VI) on three	Liang, JJ; Ding, Z; Qin, HM; Li, J; Wang, W; Luo, DX;	Environmental Pollution	2019	251	10.1016/j.envpol.2019.05	14	6.792	**10.417**

	dimensional graphene oxide sheets-oxidized carbon nanotubes hydrogels	Geng, RY; Li, P; Fan, QH				.051			
17.47	Exploring Light-Sensitive Nanocarriers for Simultaneous Triggered Antibiotic Release and Disruption of Biofilms Upon Generation of Laser-Induced Vapor Nanobubbles	Teirlinck, E; Barras, A; Liu, J; Fraire, JC; Lajunen, T; Xiong, RH; Forier, K; Li, CN; Urtti, A; Boukherroub, R; Szunerits, S; De Smedt, SC; Coenye, T; Braeckmans, K	Pharmaceutics	2019	11	10.3390/pharmaceutics11050201	14	4.421	**7.030**
17.48	Biomedical applications of composite resorbable fibers	Said, SS; Eltaher, HM; El-Khordagui, LK	Materials For Biomedical Engineering: Absorbable Polymers	2019		10.1016/B978-0-12-818415-8.00005-X	14	0	**0.000**
17.49	Applications of Carbon-Based Nanomaterials for Antimicrobial Photodynamic Therapy	Paramanantham, P; Anju, VT; Dyavaiah, M; Siddhardha, B	Microbial Nanobionics: Vol 2, Basic Research And Applications	2019		10.1007/978-3-030-16534-5_12	14	0	**0.000**
18	Enhanced antibacterial activity of dots functionalized with ampicillin bined with visible light triggered photodynamic effects	**R. Jijie,** A. Barras, J. Bouckaert, N. Dumitrascu, S. Szunerits and R. Boukherroub	Colloids Ad Surfaces B: Biointerfaces	2018	170	10.1016/j.colsurfb.2018.06.040	6	3.973	**1435.320**
18.1	Quantum Dots for Pathogenic Bacterial Monitoring and Combating	Liu, YT; Zhang, HB; Xu, YH	Advanced Optical Materials	2022		10.1002/adom.202201826	6	10.05	**35.167**
18.2	Broad-Spectrum Antibacterial Activity of Synthesized Carbon Nanodots from D-Glucose	Sawalha, S; Assali, M; Raddad, M; Ghneem, T; Sawalhi, T; Almasri, M; Zarour, A; Misia, G; Prato, M; Silvestri, A	Acs Applied Bio Materials	2022	5	10.1021/acsabm.2c00590	6	0	**0.000**
18.3	The structural characteristics and mechanisms of antimicrobial carbon dots: a mini review	Guo, BY; Liu, G; Hu, CF; Lei, BF; Liu, YL	Materials Advances	2022	3	10.1039/d2ma00625a	6	0	**0.000**
18.4	Carbon dot-based therapeutics for combating drug-resistant bacteria and biofilm infections in food preservation	Cui, FC; Ning, YY; Wang, DF; Li, JR; Li, XP; Li, TT	Critical Reviews In Food Science And Nutrition	2022		10.1080/10408398.2022.2105801	6	11.208	**39.027**
18.5	Photoluminescent Inorganic Nanoprobe-based Pathogen Detection	Huang, LL; Wang, ZJ; Xie, HY	Chemistry-An Asian Journal	2022	17	10.1002/asia.202200475	6	4.839	**17.797**
18.6	Fucoidan-derived carbon dots against Enterococcus faecalis	Tang, S; Zhang, H; Mei, L; Dou, KK; Jiang, YY; Sun,	Journal Of Nanobiotechnology	2022	20	10.1186/s12951-022-	6	9.429	**33.097**

	biofilm and infected dentinal tubules for the treatment of persistent endodontic infections	ZY; Wang, S; Hasanin, MS; Deng, J; Zhou, QH				01501-x			
18.7	A review on properties and antibacterial applications of polymer-functionalized carbon dots	Chu, XH; Wang, MQ; Shi, SZ; Sun, BH; Song, QX; Xu, W; Shen, J; Zhou, NL	Journal Of Materials Science	2022	57	10.1007/s10853-022-07394-3	6	4.682	**17.273**
18.8	Recent advances of carbon dots as new antimicrobial agents	Li, PF; Sun, L; Xue, SS; Qu, D; An, L; Wang, XY; Sun, ZC	Smartmat	2022	3	10.1002/smm2.1131	6	0	**0.000**
18.9	Carbon Dots as Drug Delivery Vehicles for Antimicrobial Applications: A Minireview	Wang, ZX; Wang, ZH; Wu, FG	Chemmedchem	2022	17	10.1002/cmdc.202200003	6	3.54	**13.467**
18.1	Photodynamic Anti-Bacteria by Carbon Dots and Their Nano-Composites	Wu, XY; Abbas, K; Yang, YX; Li, ZJ; Tedesco, AC; Bi, H	Pharmaceuticals	2022	15	10.3390/ph15040487	6	5.215	**19.050**
18.11	Surface modification of carbon dots with tetraalkylammonium moieties for fine tuning their antibacterial activity	Sviridova, E; Barras, A; Addad, A; Plotnikov, E; Di Martino, A; Deresmes, D; Nikiforova, K; Trusova, M; Szunerits, S; Guselnikova, O; Postnikov, P; Boukherroub, R	Biomaterials Advances	2022	134	10.1016/j.msec.2022.112697	6	0	**0.000**
18.12	Carbon Dots: An Excellent Fluorescent Probe for Contaminant Sensing and Remediation	Ajith, MP; Pardhiya, S; Rajamani, P	Small	2022	18	10.1002/smll.202105579	6	15.153	**52.177**
18.13	Antibacterial efficiency of carbon dots against Gram-positive and Gram-negative bacteria: A review	Varghese, M; Balachandran, M	Journal Of Environmental Chemical Engineering	2021	9	10.1016/j.jece.2021.106821	6	7.968	**28.227**
18.14	Levofloxacin-based carbon dots to enhance antibacterial activities and combat antibiotic resistance	Wu, LN; Yang, YJ; Huang, LX; Zhong, Y; Chen, Y; Gao, YR; Lin, LQ; Lei, Y; Liu, AL	Carbon	2022	186	10.1016/j.carbon.2021.10.020	6	11.307	**39.357**
18.15	Microbial inhibition and biosensing with multifunctional carbon dots: Progress and perspectives	Maruthapandi, M; Saravanan, A; Das, P; Luong, JHT; Gedanken, A	Biotechnology Advances	2021	53	10.1016/j.biotechadv.2021.107843	6	17.681	**60.603**
18.16	Accelerated antibacterial red-carbon dots with photodynamic therapy against multidrug-resistant Acinetobacter baumannii	Liu, WJ; Gu, H; Ran, B; Liu, WK; Sun, W; Wang, DP; Du, JJ; Fan, JL; Peng, XJ	Science China-Materials	2022	65	10.1007/s40843-021-1770-0	6	8.64	**30.467**
18.17	Enhanced Antibacterial Activity of CuS-BSA/Lysozyme under Near Infrared Light Irradiation	Swaidan, A; Ghayyem, S; Barras, A; Addad, A; Szunerits, S; Boukherroub, R	Nanomaterials	2021	11	10.3390/nano11092156	6	5.719	**20.730**
18.18	Advances in the Methods for the	Khayal, A; Dawane, V; Amin,	Polymers	2021	13	10.3390/pol	6	4.967	**18.223**

	Synthesis of Carbon Dots and Their Emerging Applications	MA; Tirth, V; Yadav, VK; Algahtani, A; Khan, SH; Islam, S; Yadav, KK; Jeon, BH				ym13183190			
18.19	Fluorescent Carbon Dot-Curcumin Nanocomposites for Remarkable Antibacterial Activity with Synergistic Photodynamic and Photothermal Abilities	Yan, HJ; Zhang, BQ; Zhang, Y; Su, RX; Li, PY; Su, W	Acs Applied Bio Materials	2021	4	10.1021/acsabm.1c00377	6	0	**0.000**
18.2	Green Carbon Dots (GCDs) for Photocatalytic Hydrogen Evolution and Antibacterial Applications	Genc, MT; Yanalak, G; Aksoy, I; Aslan, E; Patir, IH	Chemistryselect	2021	6	10.1002/slct.202102135	6	2.307	**9.357**
18.21	Carbon Dots as an Emergent Class of Antimicrobial Agents	Ghirardello, M; Ramos-Soriano, J; Galan, MC	Nanomaterials	2021	11	10.3390/nano11081877	6	5.719	**20.730**
18.22	Advances in Functionalized Photosensitive Polymeric Nanocarriers	Fernandez, M; Orozco, J	Polymers	2021	13	10.3390/polym13152464	6	4.967	**18.223**
18.23	Influence of the iodine content of nitrogen- and iodine-doped carbon dots as a peroxidase mimetic nanozyme exhibiting antifungal activity against C. albicans	Li, X; Wu, XM; Yuan, T; Zhu, JR; Yang, YL	Biochemical Engineering Journal	2021	175	10.1016/j.bej.2021.108139	6	4.446	**16.487**
18.24	Recent Advances on Stimuli-Responsive Combination Therapy against Multidrug-Resistant Bacteria and Biofilm	Sikder, A; Chaudhuri, A; Mondal, S; Singh, NDP	Acs Applied Bio Materials	2021	4	10.1021/acsabm.1c00150	6	0	**0.000**
18.25	Cytotoxicity and cell imaging of six types of carbon nanodots prepared through carbonization and hydrothermal processing of natural plant materials	Chen, YY; Jiang, WP; Chen, HL; Huang, HC; Huang, GJ; Chiang, HM; Chang, CC; Huang, CL; Juang, TY	Rsc Advances	2021	11	10.1039/d1ra01318a	6	4.036	**15.120**
18.26	Carbon dots as a new class of nanomedicines: Opportunities and challenges	Wang, BY; Song, HQ; Qu, XL; Chang, JB; Yang, B; Lu, SY	Coordination Chemistry Reviews	2021	442	10.1016/j.ccr.2021.214010	6	24.833	**84.443**
18.27	A Review on Multifunctional Carbon-Dots Synthesized From Biomass Waste: Design/Fabrication, Characterization and Applications	Anuar, NKK; Tan, HL; Lim, YP; So'aib, MS; Abu Bakar, NF	Frontiers In Energy Research	2021	9	10.3389/fenrg.2021.626549	6	3.858	**14.527**
18.28	One-step synthesis of blue-green	Zhao, D; Zhang, R; Liu, XM;	Nanotechnology	2021	32	10.1088/136	6	3.953	**14.843**

	luminescent carbon dots by a low-temperature rapid method and their high-performance antibacterial effect and bacterial imaging	Huang, XJ; Xiao, XC; Yuan, L				1-6528/abd8b0			
18.29	Emerging nanomaterials for antibacterial textile fabrication	Andra, S; Balu, SK; Jeevanandam, J; Muthalagu, M	Naunyn-Schmiedebergs Archives Of Pharmacology	2021	394	10.1007/s00210-021-02064-8	6	3.195	**12.317**
18.3	Antibacterial activity of positively charged carbon quantum dots without detectable resistance for wound healing with mixed bacteria infection	Hao, XL; Huang, LL; Zhao, CF; Chen, SN; Lin, WJ; Lin, YN; Zhang, LR; Sun, AA; Miao, CF; Lin, XH; Chen, M; Weng, SH	Materials Science & Engineering C-Materials For Biological Applications	2021	123	10.1016/j.msec.2021.111971	6	8.457	**29.857**
18.31	Combination therapy of biogenic C-dots and lysozyme for enhanced antibacterial and antibiofilm activity	Singh, A; Verma, A; Singh, R; Sahoo, AK; Samanta, SK	Nanotechnology	2021	32	10.1088/1361-6528/abc2ed	6	3.953	**14.843**
18.32	LED irradiation of halogen/nitrogen-doped polymeric graphene quantum dots triggers the photodynamic inactivation of bacteria in infected wounds	Huang, HH; Anand, A; Lin, CJ; Lin, HJ; Lin, YW; Harroun, SG; Huang, CC	Carbon	2021	174	10.1016/j.carbon.2020.11.092	6	11.307	**39.357**
18.33	Applications of carbon dots in environmental pollution control: A review	Long, CC; Jiang, ZX; Shangguan, JF; Qing, TP; Zhang, P; Feng, B	Chemical Engineering Journal	2021	406	10.1016/j.cej.2020.126848	6	16.744	**57.480**
18.34	Carbon dots-releasing hydrogels with antibacterial activity, high biocompatibility, and fluorescence performance as candidate materials for wound healing	Cui, FC; Sun, JD; Ji, J; Yang, XX; Wei, KM; Xu, HW; Gu, QY; Zhang, YZ; Sun, XL	Journal Of Hazardous Materials	2021	406	10.1016/j.jhazmat.2020.124330	6	14.224	**49.080**
18.35	Antimicrobial carbon nanodots: photodynamic inactivation and dark antimicrobial effects on bacteria by brominated carbon nanodots	Knoblauch, R; Harvey, A; Ra, E; Greenberg, KM; Lau, J; Hawkins, E; Geddes, CD	Nanoscale	2021	13	10.1039/d0nr06842j	6	8.307	**29.357**
18.36	A novel multifunctional NCQDs-based injectable self-crosslinking and in situ forming hydrogel as an innovative stimuli responsive smart drug delivery system for cancer therapy	Turk, S; Altinsoy, I; Efe, GC; Ipek, M; Ozacar, M; Bindal, C	Materials Science And Engineering C-Materials For Biological Applications	2021	121	10.1016/j.msec.2020.111829	6	8.457	**29.857**
18.37	Nanotheranostics: A Possible	Mosselhy, DA; Assad, M;	Nanomaterials	2021	11	10.3390/nan	6	5.719	**20.730**

	Solution for Drug-Resistant Staphylococcus aureus and their Biofilms?	Sironen, T; Elbahri, M				o11010082			
18.38	Superior Properties and Biomedical Applications of Microorganism-Derived Fluorescent Quantum Dots	Abdel-Salam, M; Omran, B; Whitehead, K; Baek, KH	Molecules	2020	25	10.3390/molecules25194486	6	4.927	**18.090**
18.39	Functionalized carbon-based nanomaterials and quantum dots with antibacterial activity: a review	Alavi, M; Jabari, E; Jabbari, E	Expert Review Of Anti-Infective Therapy	2021	19	10.1080/14787210.2020.1810569	6	5.854	**21.180**
18.4	Carbon Nanodots in Photodynamic Antimicrobial Therapy: A Review	Knoblauch, R; Geddes, CD	Materials	2020	13	10.3390/ma13184004	6	3.623	**13.743**
18.41	Combating Antibiotic-Resistant Gram-Negative Bacteria Strains with Tetracycline-Conjugated Carbon Nanoparticles	Kim, TH; Raiz, A; Unni, AD; Murhekar, S; Donose, BC; Floetenmeyer, M; Cock, IE; Brown, CL	Advanced Biosystems	2020	4	10.1002/adbi.202000074	6	4.048	**15.160**
18.42	Magnetic MnFe2O4 Core-shell nanoparticles coated with antibiotics for the ablation of pathogens	Akhlaghi, N; Najafpour-Darzi, G; Barras, A; Mohammadi, M; Boukherroub, R; Szunerits, S	Chemical Papers	2021	75	10.1007/s11696-020-01306-y	6	2.146	**8.820**
18.43	Carbon quantum dots-embedded electrospun antimicrobial and fluorescent scaffold for reepithelialization in albino wistar rats	Kanagasubbulakshmi, S; Lakshmi, K; Kadirvelu, K	Journal Of Biomedical Materials Research Part A	2021	109	10.1002/jbm.a.37048	6	4.854	**17.847**
18.44	Fluorescent carbon dots are the new quantum dots: an overview of their potential in emerging technologies and nanosafety	Alas, MO; Alkas, FB; Sukuroglu, AA; Alturk, RG; Battal, D	Journal Of Materials Science	2020	55	10.1007/s10853-020-05054-y	6	4.682	**17.273**
18.45	Genipin cross-linked carbon dots for antimicrobial, bioimaging and bacterial discrimination	Chu, XH; Wu, F; Sun, BH; Zhang, M; Song, SJ; Zhang, P; Wang, YL; Zhang, QC; Zhou, NL; Shen, J	Colloids And Surfaces B-Biointerfaces	2020	190	10.1016/j.colsurfb.2020.110930	6	5.268	**19.227**
18.46	Carbon dots: Current advances in pathogenic bacteria monitoring and prospect applications	Cui, FC; Ye, YL; Ping, JF; Sun, XL	Biosensors & Bioelectronics	2020	156	10.1016/j.bios.2020.112085	6	10.618	**37.060**
18.47	Label-Free Fluorescent Mesoporous Bioglass for Drug Delivery, Optical Triple-Mode Imaging, and Photothermal/Photodynamic Synergistic Cancer Therapy	Singh, RK; Kurian, AG; Patel, KD; Mandakhbayar, N; Lee, NH; Knowles, JC; Lee, JH; Kim, HW	Acs Applied Bio Materials	2020	3	10.1021/acsabm.0c00050	6	0	**0.000**

18.48	One-step synthesis of carbon dots for selective bacterial inactivation and bacterial differentiation	Gao, Z; Yang, DZ; Wan, Y; Yang, YL	Analytical And Bioanalytical Chemistry	2020	412	10.1007/s00216-019-02293-0	6	4.142	**15.473**
18.49	Quantum Dots	Maxwell, T; Campos, MGN; Smith, S; Doomra, M; Thwin, Z; Santra, S	Nanoparticles For Biomedical Applications: Fundamental Concepts, Biological Interactions And Clinical Applications	2020		10.1016/B978-0-12-816662-8.00015-1	6	0	**0.000**
18.5	Carbon Dots as Potent Antimicrobial Agents	Dong, XL; Liang, WX; Meziani, MJ; Sun, YP; Yang, LJ	Theranostics	2020	10	10.7150/thno.39863	6	11.556	**40.187**
18.51	A maltoheptaose-decorated BODIPY photosensitizer for photodynamic inactivation of Gram-positive bacteria	Hao, J; Lu, ZS; Li, CM; Xu, LQ	New Journal Of Chemistry	2019	43	10.1039/c9nj02987g	6	3.288	**12.627**
18.52	Deep eutectic solvents-derived carbon dots for detection of mercury (II), photocatalytic antifungal activity and fluorescent labeling for C. albicans	Gao, Z; Li, X; Shi, LY; Yang, YL	Spectrochimica Acta Part A-Molecular And Biomolecular Spectroscopy	2019	220	10.1016/j.saa.2019.04.072	6	3.232	**12.440**
18.53	Carbon-based quantum particles: an electroanalytical and biomedical perspective	Nekoueian, K; Amiri, M; Sillanpaa, M; Marken, F; Boukherroub, R; Szunerits, S	Chemical Society Reviews	2019	48	10.1039/c8cs00445e	6	42.846	**144.487**
18.54	Sustainable Graphene Production: New Insights into Cannabis sativa Engineered Carbon Dots Based Exfoliating Agent for Facile Production of Graphene	Tiwari, P; Sharma, V; Kaur, N; Ahmad, K; Mobin, SM	Acs Sustainable Chemistry & Engineering	2019	7	10.1021/acsuschemeng.9b01353	6	7.632	**27.107**
18.55	Carbon Dots for Sensing and Killing Microorganisms	Lin, FM; Bao, YW; Wu, FG	C-Journal Of Carbon Research	2019	5	10.3390/c5020033	6	0	**0.000**
18.56	The effect of iodide and temperature on enhancing antibacterial properties of nanoparticles with an encapsulated photosensitizer	Kubat, P; Henke, P; Mosinger, J	Colloids And Surfaces B-Biointerfaces	2019	176	10.1016/j.colsurfb.2019.01.021	6	4.389	**16.297**
18.57	Engineered Bright Blue- and Red-Emitting Carbon Dots Facilitate Synchronous Imaging and Inhibition of Bacterial and Cancer	Walia, S; Shukla, AK; Sharma, C; Acharya, A	Acs Biomaterials Science & Engineering	2019	5	10.1021/acsbiomaterials.9b00149	6	4.152	**15.507**

	Cell Progression via O-1(2)-Mediated DNA Damage under Photoirradiation								
18.58	Graphene Oxide Synergistically Enhances Antibiotic Efficacy in Vancomycin-Resistant Staphylococcus aureus	Singh, V; Kumar, V; Kashyap, S; Singh, AV; Kishore, V; Sitti, M; Saxena, PS; Srivastava, A	Acs Applied Bio Materials	2019	2	10.1021/acsabm.8b00757	6	0	**0.000**
18.59	Emerging vistas in theranostic medicine	Shetty, Y; Prabhu, P; Prabhakar, B	International Journal Of Pharmaceutics	2019	558	10.1016/j.ijpharm.2018.12.068	6	4.845	**17.817**
18.6	Carbon Dots for Bacterial Detection and Antibacterial Applications-A Minireview	Anand, A; Manavalan, G; Mandal, RP; Chang, HT; Chiou, YR; Huang, CC	Current Pharmaceutical Design	2019	25	10.2174/1381612825666191216150948	6	2.208	**9.027**
18.61	Applications of Carbon-Based Nanomaterials for Antimicrobial Photodynamic Therapy	Paramanantham, P; Anju, VT; Dyavaiah, M; Siddhardha, B	Microbial Nanobionics: Vol 2, Basic Research And Applications	2019		10.1007/978-3-030-16534-5_12	6	0	**0.000**
18.62	Graphene oxide and carbon dots as broad-spectrum antimicrobial agents - a minireview	Anand, A; Unnikrishnan, B; Wei, SC; Chou, CP; Zhang, LZ; Huang, CC	Nanoscale Horizons	2019	4	10.1039/c8nh00174j	6	9.927	**34.757**
18.63	Surface modification and chemical functionalization of carbon dots: a review	Yan, FY; Jiang, YX; Sun, XD; Bai, ZJ; Zhang, Y; Zhou, XG	Microchimica Acta	2018	185	10.1007/s00604-018-2953-9	6	5.479	**19.930**
19	Solution Processable Cu(II)macrocyle for the Formation of Cu2O Thin Film on ITO and its Application for Water Oxidation	M. Amiri, M. Fallahi, A. Bezaatpour, **R. Jijie**, M. Nozari, M. Rouhi, R. Boukherroub, S. Szunerits	The Journal Of Physical Chemistry C	2018	122	10.1021/acs.jpcc.8b02808	8	4.309	**412.445**
19.1	Wavelength-Dependent Bifunctional Plasmonic Photocatalysis in Au/Chalcopyrite Hybrid Nanostructures	An, XD; Kays, JC; Lightcap, IV; Ouyang, TH; Dennis, AM; Reinhard, BM	Acs Nano	2022	16	10.1021/acsnano.2c01706	8	18.027	**46.318**
19.2	One-step fabrication of Cu2O-Cu catalytic electrodes with regular porous array by ultra-fast laser scanning	Li, CJ; Liu, SG; Jin, X; Zuo, Z; Yang, H; Jing, H; Cao, X	Journal Of Alloys And Compounds	2022	900	10.1016/j.jallcom.2021.163455	8	6.371	**17.178**
19.3	CuFeN/CNT composite derived from kinetically modulated urchin-shaped MOF for highly efficient OER catalysis	Choi, Y; Kim, D; Lin, LW; Yan, BY; Hong, HC; Qin, XY; Piao, YZ	Electrochimica Acta	2021	389	10.1016/j.electacta.2021.138637	8	7.336	**19.590**
19.4	Self-Supported Electrocatalysts for	Yang, HY; Driess, M;	Advanced Energy	2021	11	10.1002/aen	8	29.698	**75.495**

	Practical Water Electrolysis	Menezes, PW	Materials			m.20210207 4			
19.5	Pentadentate Copper(II)-amidate complex as a precatalyst for electrocatalytic proton reduction	Biswas, S; Chowdhury, SN; Lepcha, P; Biswas, AN	International Journal Of Hydrogen Energy	2021	46	10.1016/j.ijh ydene.2021. 04.003	8	7.139	**19.098**
19.6	Single-Molecule Fluorescence Imaging of Nanocatalysis	Xiao, Y; Xu, WL	Chinese Journal Of Chemistry	2021	39	10.1002/cjoc .202000682	8	5.56	**15.150**
19.7	Recent Progress on Copper-Based Electrode Materials for Overall Water-Splitting	Rajput, A; Kundu, A; Chakraborty, B	Chemelectrochem	2021	8	10.1002/celc .202100307	8	6.959	**18.648**
19.8	In Situ Synthesis of Co3O4/Cofe2O4 Derived from a Metal-Organic Framework on Nickel Foam: High-Performance Electrocatalyst for Water Oxidation	Nozari-Asbemarz, M; Amiri, M; Khodayari, A; Bezaatpour, A; Nouhi, S; Hosseini, P; Wark, M; Boukherroub, R; Szunerits, S	Acs Applied Energy Materials	2021	4	10.1021/acsa em.1c00429	8	6.959	**18.648**
19.9	Copper-based metal-organic framework decorated by CuO hair-like nanostructures: Electrocatalyst for oxygen evolution reaction	Amiri, M; Tofighi, Z; Khodayari, A; Bezaatpour, A; Sohrabnezhad, S; Mishyn, V; Boukherroub, R; Szunerits, S	Applied Organometallic Chemistry	2020	34	10.1002/aoc. 5871	8	4.105	**11.513**
19.1	Halides-assisted electrochemical synthesis of Cu/Cu2O/CuO core-shell electrocatalyst for oxygen evolution reaction	Li, R; Xu, JS; Zeng, RG; Pan, QF; Tang, T; Luo, WH	Journal Of Power Sources	2020	457	10.1016/j.jp owsour.2020 .228058	8	9.127	**24.068**
19.11	Imaging Single Nanobubbles of H-2 and O-2 During the Overall Water Electrolysis with Single-Molecule Fluorescence Microscopy	Hao, R; Fan, YS; Anderson, TJ; Zhang, B	Analytical Chemistry	2020	92	10.1021/acs. analchem.9b 04793	8	6.986	**18.715**
19.12	Copper-based homogeneous and heterogeneous catalysts for electrochemical water oxidation	Lee, H; Wu, XJ; Sun, LC	Nanoscale	2020	12	10.1039/c9n r10437b	8	7.79	**20.725**
19.13	Surface Activation and Reconstruction of Non-Oxide-Based Catalysts Through in Situ Electrochemical Tuning for Oxygen Evolution Reactions in Alkaline Media	Sivanantham, A; Ganesan, P; Vinu, A; Shanmugam, S	Acs Catalysis	2020	10	10.1021/acsc atal.9b04216	8	13.084	**33.960**
19.14	Construction of Fe2O3@CuO Heterojunction Nanotubes for Enhanced Oxygen Evolution Reaction	Gao, Y; Zhang, N; Wang, CR; Zhao, F; Yu, Y	Acs Applied Energy Materials	2020	3	10.1021/acsa em.9b01866	8	6.024	**16.310**

19.15	Binder free, robust and scalable CuO@GCE modified electrodes for efficient electrochemical water oxidation	Rani, BJ; Ravi, G; Yuvakkumar, R; Hasan, ZM; Ravichandran, S; Hong, SI	Materials Chemistry And Physics	2020	239	10.1016/j.matchemphys.2019.122321	8	4.094	**11.485**
19.16	Behavior of a Cu-Peptide complex under water oxidation conditions - Molecular electrocatalyst or precursor to nanostructured CuO films?	Lukacs, D; Nemeth, M; Szyrwiel, L; Illes, L; Pecz, B; Shen, SH; Pap, JS	Solar Energy Materials And Solar Cells	2019	201	10.1016/j.solmat.2019.110079	8	6.984	**18.710**
19.17	Construction of alternating layered quasi-three-dimensional electrode Ag NWs/CoO for water splitting: A discussion of catalytic mechanism	Liu, XW; Wang, RC; He, Y; Ni, ZY; Su, N; Guo, R; Zhao, Y; You, JH; Yi, TF	Electrochimica Acta	2019	317	10.1016/j.electacta.2019.06.029	8	6.215	**16.788**
19.18	Patterning Cu nanostructures tailored for CO2 reduction to electrooxidizable fuels and oxygen reduction in alkaline media	Michalak, M; Roguska, A; Nogala, W; Opallo, M	Nanoscale Advances	2019	1	10.1039/c9na00166b	8	0	**0.000**
19.19	Water Oxidation Catalysts: The Quest for New Oxide-Based Materials	Mavrokefalos, CK; Patzke, GR	Inorganics	2019	7	10.3390/inorganics7030029	8	0	**0.000**
19.2	Copper Containing Molecular Systems in Electrocatalytic Water Oxidation-Trends and Perspectives	Lukacs, D; Szyrwiel, L; Pap, JS	Catalysts	2019	9	10.3390/catal9010083	8	3.52	**10.050**
20	Sensitive electrochemical detection of cardiac troponin I in serum and saliva by nitrogen-doped porous reduced graphene oxide electrode	F. Chekin, A. Vasilescu, **R. Jijie**, S. Singh, S. Kurungot, M. Iancu, G. Badea, R. Boukherroub, S. Szunerits	Sensors And Actuators B: Chemical	2018	262	10.1016/j.snb.2018.01.215	9	6.393	**1143.571**
20.1	A review of cardiac troponin I detection by surface enhanced Raman spectroscopy: Under the spotlight of point-of-care testing	Savinon-Flores, AI; Savinon-Flores, F; Trejo, G; Mendez, E; Talu, S; Gonzalez-Fuentes, MA; Mendez-Albores, A	Frontiers In Chemistry	2022	10	10.3389/fchem.2022.1017305	9	5.545	**13.433**
20.2	Novel electroactive ferrocene-based covalent organic frameworks towards electrochemical label-free aptasensors for the detection of Cardiac Troponin I	Song, ZP; Song, J; Gao, F; Chen, XP; Wang, QH; Zhao, YA; Huang, XG; Yang, CY; Wang, QX	Sensors And Actuators B-Chemical	2022	368	10.1016/j.snb.2022.132205	9	9.221	**21.602**
20.3	Novel electroactive ferrocene-based covalent organic frameworks towards electrochemical label-free aptasensors for the detection of	Song, ZP; Song, J; Gao, F; Chen, XP; Wang, QH; Zhao, YA; Huang, XG; Yang, CY; Wang, QX	Sensors And Actuators B-Chemical	2022	368	10.1016/j.snb.2022.132205	9	9.221	**21.602**

	Cardiac Troponin I								
20.4	Advances in nanosensors for cardiovascular disease detection	Tang, XF; Zhu, YP; Guan, WJ; Zhou, WJ; Wei, PF	Life Sciences	2022	305	10.1016/j.lfs.2022.120733	9	6.78	**16.178**
20.5	Detection of COVID-19-related biomarkers by electrochemical biosensors and potential for diagnosis, prognosis, and prediction of the course of the disease in the context of personalized medicine	Vasquez, V; Orozco, J	Analytical And Bioanalytical Chemistry			10.1007/s00216-022-04237-7	9	4.478	**11.062**
20.6	Electrochemical immunosensor for highly sensitive detection of cTnI via in-situ initiated ROP signal amplification strategy	Cheng, D; Zhou, ZB; Shang, SS; Wang, HS; Guan, HM; Yang, HX; Liu, YJ	Analytica Chimica Acta	2022	1219	10.1016/j.aca.2022.340032	9	6.911	**16.469**
20.7	State-of-the-Art Smart and Intelligent Nanobiosensors for SARS-CoV-2 Diagnosis	Thapa, S; Singh, KRB; Verma, R; Singh, J; Singh, RP	Biosensors-Basel	2022	12	10.3390/bios12080637	9	5.743	**13.873**
20.8	Aptamers Targeting Cardiac Biomarkers as an Analytical Tool for the Diagnostics of Cardiovascular Diseases: A Review	Komarova, N; Panova, O; Titov, A; Kuznetsov, A	Biomedicines	2022	10	10.3390/biomedicines10051085	9	4.757	**11.682**
20.9	Graphene-Based Biosensors for Molecular Chronic Inflammatory Disease Biomarker Detection	Badillo-Ramirez, I; Carreon, YJP; Rodriguez-Almazan, C; Medina-Duran, CM; Islas, SR; Saniger, JM	Biosensors-Basel	2022	12	10.3390/bios12040244	9	5.743	**13.873**
20.1	Highly performing graphene-based field effect transistor for the differentiation between mild-moderate-severe myocardial injury	Rodrigues, T; Mishyn, V; Leroux, YR; Butruille, L; Woitrain, E; Barras, A; Aspermair, P; Happy, H; Kleber, C; Boukherroub, R; Montaigne, D; Knoll, W; Szunerits, S	Nano Today	2022	43	10.1016/j.nantod.2022.101391	9	18.962	**43.249**
20.11	Graphene-Modified Glassy Carbon Electrodes: Correlations between Electrochemical Performance, Film Morphology and Composition	Fernandes, PMV; Pereira, CM; Campina, JM; Silva, AF	International Journal Of Electrochemical Science	2022	17	10.20964/2022.03.47	9	1.541	**4.536**
20.12	Significance of Cardiac Troponins as an Identification Tool in COVID-19 Patients Using Biosensors: An Update	Rasmi, Y; Mosa, OF; Alipour, S; Heidari, N; Javanmard, F; Golchin, A; Aziz, SGG	Frontiers In Molecular Biosciences	2022	9	10.3389/fmolb.2022.821155	9	6.113	**14.696**

20.13	Progress, Opportunities, and Challenges of Troponin Analysis in the Early Diagnosis of Cardiovascular Diseases	Du, XW; Su, XJ; Zhang, WX; Yi, SY; Zhang, G; Jiang, S; Li, H; Li, SG; Xia, F	Analytical Chemistry	2022	94	10.1021/acs.analchem.1c04476	9	8.008	**18.907**
20.14	2-D Nanomaterials Assisted LSPR MPM Optical Fiber Sensor Probe for Cardiac Troponin I Detection	Wang, Y; Singh, R; Chaudhary, S; Zhang, BY; Kumar, S	IEEE Transactions On Instrumentation And Measurement	2022	71	10.1109/TIM.2022.3160536	9	5.332	**12.960**
20.15	kappa-Carrageenan Gel Modified Mesoporous Gold Chronocoulometric Sensor for Ultrasensitive Detection of MicroRNA	Salahuddin, B; Masud, MK; Aziz, S; Liu, CH; Amiralian, N; Ashok, A; Hossain, SMA; Park, H; Wahab, MA; Amin, MA; Chari, MA; Rowan, AE; Yamauchi, Y; Hossain, MSA; Kaneti, YV	Bulletin Of The Chemical Society Of Japan	2022	95	10.1246/bcsj.20210286	9	5.121	**12.491**
20.16	Relevant Biomarkers in Medical Practices: An Analysis of the Needs Addressed by an International Survey	Vuillaume, LA; Leichle, T; Le Borgne, P; Grajoszex, M; Goetz, C; Voss, PL; Ougazzaden, A; Salvestrini, JP; d'Ortho, MP	Journal Of Personalized Medicine	2022	12	10.3390/jpm12010106	9	3.508	**8.907**
20.17	Advances in electrochemical aptasensing for cardiac biomarkers	Rahman, MM; Lopa, NS; Lee, JJ	Bulletin Of The Korean Chemical Society	2022	43	10.1002/bkcs.12434	9	1.241	**3.869**
20.18	Sandwich-type electrochemical aptasensor based on hollow mesoporous carbon spheres loaded with porous dendritic Pd@Pt nanoparticles as signal amplifier for ultrasensitive detection of cardiac troponin I	Wang, ZX; Zhao, HL; Chen, KC; Li, HY; Lan, MB	Analytica Chimica Acta	2021	1188	10.1016/j.aca.2021.339202	9	6.911	**16.469**
20.19	Electrochemical and electronic detection of biomarkers in serum: a systematic comparison using aptamer-functionalized surfaces	Mishyn, V; Rodrigues, T; Leroux, YR; Butruille, L; Woitrain, E; Montaigne, D; Aspermair, P; Happy, H; Knoll, W; Boukherroub, R; Szunerits, S	Analytical And Bioanalytical Chemistry	2022	414	10.1007/s00216-021-03658-0	9	4.478	**11.062**
20.2	Electrochemical Immunosensor for Cardiac Troponin I Detection Based on Covalent Organic Framework and Enzyme-Catalyzed Signal Amplification	Feng, SN; Yan, MX; Xue, Y; Huang, JS; Yang, XR	Analytical Chemistry	2021	93	10.1021/acs.analchem.1c02636	9	8.008	**18.907**
20.21	Antibody coated conductive	Gholami, MD; O'Mullane,	Analytica Chimica Acta	2021	118	10.1016/j.ac	9	6.911	**16.469**

	polymer for the electrochemical immunosensing of Human Cardiac Troponin I in blood plasma	AP; Sonar, P; Ayoko, GA; Izake, EL			5	a.2021.339082			
20.22	Nanomaterial-based aptasensors as an efficient substitute for cardiovascular disease diagnosis: Future of smart biosensors	Azzouz, A; Hejji, L; Sonne, C; Kim, KH; Kumar, V	Biosensors & Bioelectronics	2021	193	10.1016/j.bios.2021.113617	9	12.545	**28.989**
20.23	Recent Advances in the Fabrication of Nano-aptasensors for the Detection of Troponin as a Main Biomarker of Acute Myocardial Infarction	Asl, SK; Rahimzadegan, M	Critical Reviews In Analytical Chemistry			10.1080/10408347.2021.1967721	9	5.686	**13.747**
20.24	Electrochemical strategies for the detection of cTnI	Yuan, ZP; Wang, L; Chen, J; Su, WG; Li, AQ; Su, GS; Liu, PB; Zhou, XX	Analyst	2021	146	10.1039/d1an00808k	9	5.227	**12.727**
20.25	Hybrid Interface Based on Carboxymethyl Cellulose/N-Doped Porous Reduced Graphene Oxide for On-Demand Electrochemical Release of Imatinib	Tehrani, NS; Masoumi, M; Chekin, F; Baei, MS	Russian Journal Of Electrochemistry	2021	57	10.1134/S1023193521080139	9	1.351	**4.113**
20.26	Impedimetric cardiac biomarker determination in serum mediated by epoxy and hydroxyl of reduced graphene oxide on gold array microelectrodes	Taniselass, S; Arshad, MKM; Gopinath, SCB; Fathil, MFM; Ibau, C; Anbu, P	Microchimica Acta	2021	188	10.1007/s00604-021-04922-x	9	6.408	**15.351**
20.27	Carbon nanomaterials for cardiovascular theranostics: Promises and challenges	Alagarsamy, KN; Mathan, S; Yan, WA; Rafieerad, A; Sekaran, S; Manego, H; Dhingra, S	Bioactive Materials	2021	6	10.1016/j.bioactmat.2020.12.030	9	16.874	**38.609**
20.28	Challenges and Perspectives on Biosensors for Highly Sensitive Quantification of Salivary Troponins: A Review	Catarino, SO; Pereira, VH; Sousa, N; Minas, G	IEEE Sensors Journal	2021	21	10.1109/JSEN.2020.3004239	9	4.325	**10.722**
20.29	Interference-free photoelectrochemical immunoassays using carboxymethylated dextran-coated and gold-modified TiO2 nanotube arrays	Guo, WZ; Wang, JP; Guo, WJ; Kang, Q; Zhou, FM	Analytical And Bioanalytical Chemistry	2021	413	10.1007/s00216-021-03442-0	9	4.478	**11.062**
20.3	Electrochemical Sensor Based on	Rahimpour, R; Sabeti, B;	Russian Journal Of	2021	57	10.1134/S10	9	1.351	**4.113**

	Nitrogen Doped Porous Reduced Graphene Oxide to Detection of Ciprofloxacin in Pharmaceutical Samples	Chekin, F	Electrochemistry			2319352012 0186			
20.31	Au/In2O3 Nanocubes Based Label-free Aptasensor for Ultrasensitive and Rapid Recognition of Cardiac Troponin I	Xu, WJ; Liu, T; Wang, YQ; Zhang, W; Yao, XY; Hou, BL; Xie, Y; Chu, ZY; Jin, WQ	Electroanalysis	2021	33	10.1002/elan .202100117	9	3.077	**7.949**
20.32	Binary transition metal oxide modified laser-scribed graphene electrochemical aptasensor for the accurate and sensitive screening of acute myocardial infarction	Rauf, S; Mani, V; Lahcen, AA; Yuvaraja, S; Beduk, T; Salama, KN	Electrochimica Acta	2021	386	10.1016/j.ele ctacta.2021. 138489	9	7.336	**17.413**
20.33	A Novel Graphene-Based Nanomaterial Modified Electrochemical Sensor for the Detection of Cardiac Troponin I	Li, J; Zhang, SW; Zhang, L; Zhang, Y; Zhang, H; Zhang, CX; Xuan, XX; Wang, MJ; Zhang, JY; Yuan, YQ	Frontiers In Chemistry	2021	9	10.3389/fche m.2021.6805 93	9	5.545	**13.433**
20.34	An Electrochemical Biosensor for Cardiac Troponin I Based on Electrocatalytic Activity Suppression of MIL-101 (Fe) by Immunoreaction	Yang, HZ; Chu, YR; Wang, QX; Ding, CF; Gao, F	Chinese Journal Of Analytical Chemistry	2021	49	10.19756/j.is sn.0253-3820.201693	9	1.193	**3.762**
20.35	Effect of Serum on Electrochemical Detection of Bioassays Having Ag Nanoparticle Labels	Pollok, NE; Peng, Y; Rabin, C; Richards, I; Crooks, RM	Acs Sensors	2021	6	10.1021/acss ensors.1c004 46	9	9.618	**22.484**
20.36	Sensitive impedimetric detection of troponin I with metal-organic framework composite electrode	Gupta, A; Sharma, SK; Pachauri, V; Ingebrandt, S; Singh, S; Sharma, AL; Deep, A	Rsc Advances	2021	11	10.1039/d0r a06665f	9	4.036	**10.080**
20.37	A revised manuscript submitted to sensors and actuators B: Chemical illumination modification from an LED to a laser to improve the spatial resolution of IGZO thin film light-addressable potentiometric sensors in pH detections	Yang, CM; Chen, CH; Akuli, N; Yen, TH; Lai, CS	Sensors And Actuators B-Chemical	2021	329	10.1016/j.sn b.2020.1289 53	9	9.221	**21.602**
20.38	Voltammetric biosensors for analytical detection of cardiac troponin biomarkers in acute myocardial infarction	Pourali, A; Rashidi, MR; Barar, J; Pavon-Djavid, G; Omidi, Y	Trac-Trends In Analytical Chemistry	2021	134	10.1016/j.tra c.2020.1161 23	9		**1.111**

20.39	Electrochemical sensors targeting salivary biomarkers: A comprehensive review	Mani, V; Beduk, T; Khushaim, W; Ceylan, AE; Timur, S; Wolfbeis, OS; Salama, KN	TRAC-TRENDS IN ANALYTICAL CHEMISTRY	2021	135	10.1016/j.trac.2020.116164	9	14.908	**34.240**
20.4	Nanodiamonds and hydrogen-substituted graphdiyne heteronanostructure for the sensitive impedimetric aptasensing of myocardial infarction and cardiac troponin I	Wang, CB; Li, JN; Kang, MM; Huang, XY; Liu, Y; Zhou, N; Zhang, ZH	ANALYTICA CHIMICA ACTA	2021	1141	10.1016/j.aca.2020.10.044	9	6.911	**16.469**
20.41	Advances in point-of-care testing for cardiovascular diseases	Regan, B; O'Kennedy, R; Collins, D	ADVANCES IN CLINICAL CHEMISTRY, VOL 104	2021	104	10.1016/bs.acc.2020.09.001	9	6.303	**15.118**
20.42	Electrochemical Aptasensors: Current Status and Future Perspectives	Radi, A; Abd-Ellatief, MR	DIAGNOSTICS	2021	11	10.3390/diagnostics11010104	9	3.992	**9.982**
20.43	Recent advances in graphene-based nanobiosensors for salivary biomarker detection	Goldoni, R; Farronato, M; Connelly, ST; Tartaglia, GM; Yeo, WH	BIOSENSORS & BIOELECTRONICS	2021	171	10.1016/j.bios.2020.112723	9	12.545	**28.989**
20.44	Gold Nanoparticle-Based Platforms for Diagnosis and Treatment of Myocardial Infarction	Khan, S; Hasan, A; Attar, F; Sharifi, M; Siddique, R; Mraiche, F; Falahati, M	ACS BIOMATERIALS SCIENCE & ENGINEERING	2020	6	10.1021/acsbiomaterials.0c00955	9	4.749	**11.664**
20.45	Carbon nanomaterials for salivary-based biosensors: a review	Ehtesabi, H	MATERIALS TODAY CHEMISTRY	2020	17	10.1016/j.mtchem.2020.100342	9	8.301	**19.558**
20.46	Nitrogen Doped Porous Reduced Graphene Oxide Hybrid as a Nanocarrier of Imatinib Anticancer Drug	Tehrani, NS; Masoumi, M; Chekin, F; Baei, MS	RUSSIAN JOURNAL OF APPLIED CHEMISTRY	2020	93	10.1134/S1070427220080157	9	0.85	**3.000**
20.47	Review on electrochemical sensing strategies for C-reactive protein and cardiac troponin I detection	Dhara, K; Mahapatra, DR	MICROCHEMICAL JOURNAL	2020	156	10.1016/j.microc.2020.104857	9	4.821	**11.824**
20.48	Recent Trends in Electrochemical Sensors for Vital Biomedical Markers Using Hybrid Nanostructured Materials	Reddy, KK; Bandal, H; Satyanarayana, M; Goud, KY; Gobi, KV; Jayaramudu, T; Amalraj, J; Kim, H	ADVANCED SCIENCE	2020	7	10.1002/advs.201902980	9	16.806	**38.458**
20.49	Immobilization Techniques for Aptamers on Gold Electrodes for the Electrochemical Detection of Proteins: A Review	Oberhaus, FV; Frense, D; Beckmann, D	BIOSENSORS-BASEL	2020	10	10.3390/bios10050045	9	5.519	**13.376**

20.5	Biosensors Made of Synthetic Functional Nucleic Acids Toward Better Human Health	McConnell, EM; Cozma, I; Morrison, D; Li, YF	ANALYTICAL CHEMISTRY	2020	92	10.1021/acs.analchem.9b04868	9	6.986	**16.636**
20.51	Paper based point of care immunosensor for the impedimetric detection of cardiac troponin I biomarker	Vasantham, S; Alhans, R; Singhal, C; Nagabooshanam, S; Nissar, S; Basu, T; Ray, SC; Wadhwa, S; Narang, J; Mathur, A	BIOMEDICAL MICRODEVICES	2019	22	10.1007/s10544-019-0463-0	9	2.176	**5.947**
20.52	Recent Advances of Porous Graphene: Synthesis, Functionalization, and Electrochemical Applications	Zhang, YY; Wan, QJ; Yang, NJ	SMALL	2019	15	10.1002/smll.201903780	9	11.459	**26.576**
20.53	Electrochemical methods for detection of biomarkers of Chronic Obstructive Pulmonary Disease in serum and saliva	Chen, X; Dong, T; Wei, XY; Yang, ZC; Pires, NMM; Ren, J; Jiang, ZD	BIOSENSORS & BIOELECTRONICS	2019	142	10.1016/j.bios.2019.111453	9	10.257	**23.904**
20.54	DNA nanotetrahedron-assisted electrochemical aptasensor for cardiac troponin I detection based on the co-catalysis of hybrid nanozyme, natural enzyme and artificial DNAzyme	Sun, DP; Lin, XA; Lu, J; Wei, P; Luo, ZB; Lu, XE; Chen, ZG; Zhang, LY	BIOSENSORS & BIOELECTRONICS	2019	142	10.1016/j.bios.2019.111578	9	10.257	**23.904**
20.55	Analyte-resolved magnetoplasmonic nanocomposite to enhance SPR signals and dual recognition strategy for detection of BNP in serum samples	Zhao, JL; Liang, DL; Gao, SW; Hu, XJ; Koh, K; Chen, HX	BIOSENSORS & BIOELECTRONICS	2019	141	10.1016/j.bios.2019.111440	9	10.257	**23.904**
20.56	An electrochemical sandwich immunosensor for cardiac troponin I by using nitrogen/sulfur co-doped graphene oxide modified with Au@Ag nanocubes as amplifiers	Lv, H; Zhang, XB; Li, YY; Ren, Y; Zhang, CY; Wang, P; Xu, Z; Li, XJ; Chen, ZW; Dong, YH	MICROCHIMICA ACTA	2019	186	10.1007/s00604-019-3526-2	9	6.232	**14.960**
20.57	DNA nanotetrahedron linked dual-aptamer based voltammetric aptasensor for cardiac troponin I using a magnetic metal-organic framework as a label	Luo, ZB; Sun, DP; Tong, YL; Zhong, YS; Chen, ZG	MICROCHIMICA ACTA	2019	186	10.1007/s00604-019-3470-1	9	6.232	**14.960**
20.58	Graphene-based fully integrated portable nanosensing system for on-line detection of cytokine	Hao, Z; Pan, YL; Shao, WW; Lin, Q; Zhao, XZ	BIOSENSORS & BIOELECTRONICS	2019	134	10.1016/j.bios.2019.03.053	9	10.257	**23.904**

	biomarkers in saliva								
20.59	Electrochemical dual-aptamer-based biosensor for nonenzymatic detection of cardiac troponin I by nanohybrid electrocatalysts labeling combined with DNA nanotetrahedron structure	Sun, DP; Luo, ZB; Lu, J; Zhang, SS; Che, T; Chen, ZG; Zhang, LY	BIOSENSORS & BIOELECTRONICS	2019	134	10.1016/j.bios.2019.03.049	9	10.257	**23.904**
20.6	Manganese doped CdS sensitized graphene/Cu2MoS4 composite for the photoelectrochemical immunoassay of cardiac troponin I	Chi, HT; Han, QZ; Chi, TH; Xing, B; Ma, N; Wu, D; Wei, Q	BIOSENSORS & BIOELECTRONICS	2019	132	10.1016/j.bios.2019.02.048	9	10.257	**23.904**
20.61	Electrochemical cardiovascular platforms: Current state of the art and beyond	Szunerits, S; Mishyn, V; Grabowska, I; Boukherroub, R	BIOSENSORS & BIOELECTRONICS	2019	131	10.1016/j.bios.2019.02.010	9	10.257	**23.904**
20.62	An aptasensor for troponin I based on the aggregation-induced electrochemiluminescence of nanoparticles prepared from a cyclometallated iridium(III) complex and poly(4-vinylpyridine-co-styrene) deposited on nitrogen-doped graphene	Saremi, M; Amini, A; Heydari, H	MICROCHIMICA ACTA	2019	186	10.1007/s00604-019-3352-6	9	6.232	**14.960**
20.63	Salivary biomarkers detection: Analytical and immunological methods overview	Gug, IT; Tertis, M; Hosu, O; Cristea, C	TRAC-TRENDS IN ANALYTICAL CHEMISTRY	2019	113	10.1016/j.trac.2019.02.020	9	9.801	**22.891**
20.64	Ultrasensitive sandwich-type immunosensor for cardiac troponin I based on enhanced electrocatalytic reduction of H2O2 using beta-cyclodextrins functionalized 3D porous graphene-supported Pd@Au nanocubes	Zhang, XB; Lv, H; Li, YY; Zhang, CY; Wang, P; Liu, Q; Ai, B; Xu, Z; Zhao, ZD	JOURNAL OF MATERIALS CHEMISTRY B	2019	7	10.1039/c8tb03362e	9	5.344	**12.987**
20.65	Pushing the limits of electrochemistry toward challenging applications in clinical diagnosis, prognosis, and therapeutic action	Yanez-Sedeno, P; Campuzano, S; Pingarron, JM	CHEMICAL COMMUNICATIONS	2019	55	10.1039/c8cc08815b	9	5.996	**14.436**
20.66	Graphene-modified electrodes for sensing doxorubicin hydrochloride in human plasma	Chekin, F; Myshin, V; Ye, R; Melinte, S; Singh, SK; Kurungot, S; Boukherroub, R;	ANALYTICAL AND BIOANALYTICAL CHEMISTRY	2019	411	10.1007/s00216-019-01611-w	9	3.637	**9.193**

		Szunerits, S							
20.67	Click Chemistry on Gold Electrodes Modified with Reduced Graphene Oxide by Electrophoretic Deposition	Mishyn, V; Aspermair, P; Leroux, Y; Happy, H; Knoll, W; Boukherroub, R; Szunerits, S	SURFACES	2019	2	10.3390/surfaces2010015	9	0	**0.000**
20.68	Label free electrochemical detection of cardiac biomarker troponin T using ZnSnO3 perovskite nanomaterials	Supraja, P; Sudarshan, V; Tripathy, S; Agrawal, A; Singh, SG	ANALYTICAL METHODS	2019	11	10.1039/c8ay02617c	9	2.596	**6.880**
20.69	Nanomaterials-based Electrochemical Sensing of Cardiac Biomarkers for Acute Myocardial Infarction: Recent Progress	Nsabimana, A; Ma, XG; Yuan, F; Du, FX; Abdussalam, A; Lou, BH; Xu, GB	ELECTROANALYSIS	2019	31	10.1002/elan.201800641	9	2.544	**6.764**
20.7	Simple, low-cost, sensitive and label-free aptasensor for the detection of cardiac troponin I based on a gold nanoparticles modified titanium foil	Lopa, NS; Rahman, MM; Ahmed, F; Ryu, T; Sutradhar, SC; Lei, J; Kim, J; Kim, DH; Lee, YH; Kim, W	BIOSENSORS & BIOELECTRONICS	2019	126	10.1016/j.bios.2018.11.012	9	10.257	**23.904**
20.71	Point-of-Care Compatibility of Ultra-Sensitive Detection Techniques for the Cardiac Biomarker Troponin I-Challenges and Potential Value	Regan, B; O'Kennedy, R; Collins, D	BIOSENSORS-BASEL	2018	8	10.3390/bios8040114	9	3.24	**8.311**
20.72	Graphene-based bioelectrochemistry and bioelectronics: A concept for the future?	Szunerits, S; Boukherroub, R	CURRENT OPINION IN ELECTROCHEMISTRY	2018	12	10.1016/j.coelec.2018.03.028	9	0	**0.000**
20.73	Recent progress on the sensitive detection of cardiovascular disease markers by electrochemical-based biosensors	Bakirhan, NK; Ozcelikay, G; Ozkan, SA	JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS	2018	159	10.1016/j.jpba.2018.07.021	9	2.983	**7.740**
20.74	Electrochemical Aptamer-Based Biosensors for the Detection of Cardiac Biomarkers	Grabowska, I; Sharma, N; Vasilescu, A; Iancu, M; Badea, G; Boukherroub, R; Ogale, S; Szunerits, S	ACS OMEGA	2018	3	10.1021/acsomega.8b01558	9	2.584	**6.853**
21	Porous reduced graphene oxide modified electrodes for the analysis of protein aggregation. Part 2: Application to the analysis of calcitonin containing	A. Vasilescu, R. Ye, S. Boulahneche, S. Lamraoui**, R. Jijie**, M. Medjram, S. Gaspar, S. Singh, S. Kurungot, S. Melinte, R. Boukherroub, S.	Electrochimica Acta	2018	266	10.1016/j.electacta.2018.02.038	12	5.383	**38.022**

	pharmaceutical formulation	Szunerits							
21.1	Advances in electrochemical detection for probing protein aggregation	Andreescu, S; Vasilescu, A	Current Opinion In Electrochemistry	2021	30	10.1016/j.coelec.2021.100820	12	7.664	**13.607**
21.2	Enhanced electrocatalytic activity of palladium nanochains by modifying transition metal core-shell nanoparticles (TMcore-shell = Ni@NiO, Co@CoO) on reduced graphene oxide for methanol electro-oxidation	He, QG; Zhang, Q; Yang, XK; Zhang, CX; Zeng, XY; Shi, J; Li, M; Zhang, YJ; Xu, ML	Electrochimica Acta	2019	321	10.1016/j.electacta.2019.134688	12	6.215	**11.192**
21.3	Development of Carbon Nanostructured Based Electrochemical Sensors for Pharmaceutical Analysis	Ghalkhani, M; Ghorbani-Bidkorbeh, F	Iranian Journal Of Pharmaceutical Research	2019	18	10.22037/ijpr.2019.1100645	12	1.505	**3.342**
21.4	Graphene-modified electrodes for sensing doxorubicin hydrochloride in human plasma	Chekin, F; Myshin, V; Ye, R; Melinte, S; Singh, SK; Kurungot, S; Boukherroub, R; Szunerits, S	Analytical And Bioanalytical Chemistry	2019	411	10.1007/s00216-019-01611-w	12	3.637	**6.895**
21.5	Noncovalently copper-porphyrin functionalized reduced graphene oxide for sensitive electrochemical detection of dopamine	Huang, DL; Wang, J; Yuan, HQ; Guo, HS; Ying, X; Zhang, H; Liu, HY	Journal Of Porphyrins And Phthalocyanines	2018	22	10.1142/S1088424618500761	12	1.292	**2.987**
22	Controlled modification of electrochemical microsystems with polyethylenimine/reduced graphene oxide using electrophoretic deposition: Sensing of dopamine levels in meat samples	K. Kahnlouche1, **R. Jijie1**, I Hosu, A. Barras, T. Gharbi, R. Yahiaoui, G. Herlem, M. Ferhat, S. Szunerits, R. Boukherroub	Talanta	2018	178	0.1016/j.talanta.2017.09.065	10	4.916	**289.144**
22.1	Preparation, synthesis, properties and characterization of graphene-based 2D nano-materials for biosensors and bioelectronics	Deepa, C; Rajeshkumar, L; Ramesh, M	Journal Of Materials Research And Technology-Jmr&T	2022	19	10.1016/j.jmrt.2022.06.023	10	6.267	**13.534**
22.2	Recent trends in carbon-based microelectrodes as electrochemical sensors for neurotransmitter detection: A review	Liu, R; Feng, ZY; Li, DH; Jin, B; Lan, Y; Meng, LY	Trac-Trends In Analytical Chemistry	2022	148	10.1016/j.trac.2022.116541	10	14.908	**30.816**
22.3	Achievements of Graphene and Its Derivatives Materials on Electrochemical Drug Assays and	Imanzadeh, H; Bakirhan, NK; Kuralay, F; Amiri, M; Ozkan, SA	Critical Reviews In Analytical Chemistry	2022		10.1080/10408347.2021.2018568	10	5.686	**12.372**

	Drug-DNA Interactions								
22.4	Graphene and Carbon Nanotube-based Electrochemical Sensing Platforms for Dopamine	Islam, S; Shah, SS; Naher, S; Ehsan, MA; Aziz, MA; Ahammad, AJS	Chemistry-An Asian Journal	2021	16	10.1002/asia.202100898	10	4.839	**10.678**
22.5	Polyoxometalate-based catenane as sensing material for electrochemical detection of dopamine	Han, H; Sha, JQ; Liu, C; Wang, Y; Dong, CY; Li, MJ; Jiao, TY	Journal Of Coordination Chemistry	2021	74	10.1080/00958972.2021.1944120	10	1.869	**4.738**
22.6	Colorimetric sensing of dopamine in beef meat using copper sulfide encapsulated within bovine serum albumin functionalized with copper phosphate (CuS-BSA-Cu-3(PO4)(2)) nanoparticles	Swaidan, A; Barras, A; Addad, A; Tahon, JF; Toufaily, J; Hamieh, T; Szunerits, S; Boukherroub, R	Journal Of Colloid And Interface Science	2021	582	10.1016/j.jcis.2020.08.057	10	9.965	**20.930**
22.7	Hypha-templated synthesis of carbon/ZnO microfiber for dopamine sensing in pork	Li, ZH; Zhang, X; Huang, XW; Zou, XB; Shi, JY; Xu, YW; Hu, XT; Sun, Y; Zhai, XD	Food Chemistry	2021	335	10.1016/j.foodchem.2020.127646	10	9.231	**19.462**
22.8	Electrophoretic deposition of polymers and proteins for biomedical applications	Sikkema, R; Baker, K; Zhitomirsky, I	Advances In Colloid And Interface Science	2020	284	10.1016/j.cis.2020.102272	10	12.984	**26.968**
22.9	Sensor based on redox conjugated poly(para-phenylene) for the simultaneous detection of dopamine, ascorbic acid, and uric acid in human serum sample	Hsine, Z; Blili, S; Milka, R; Dorizon, H; Said, AH; Korri-Youssoufi, H	Analytical And Bioanalytical Chemistry	2020	412	10.1007/s00216-020-02686-6	10	4.142	**9.284**
22.1	Molecularly imprinted electrochemical sensor based on polypyrrole/dopamine@graphene incorporated with surface molecularly imprinted polymers thin film for recognition of olaquindox	Bai, XY; Zhang, B; Liu, M; Hu, XL; Fang, GZ; Wang, S	Bioelectrochemistry	2020	132	10.1016/j.bioelechem.2019.107398	10	5.807	**12.614**
22.11	Label-Free, Highly Sensitive Electrochemical Aptasensors Using Polymer-Modified Reduced Graphene Oxide for Cardiac Biomarker Detection	Sharma, A; Bhardwa, J; Jang, J	Acs Omega	2020	5	10.1021/acsomega.9b03368	10	3.512	**8.024**
22.12	Sensing characteristics of dopamine using Pt/n-Si structure	Roy, A; Maikap, S; Tzeng, PJ; Qiu, JT	Vacuum	2020	172	10.1016/j.vacuum.2019.1	10	3.627	**8.254**

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22.13	Review-Non-Enzymatic Hydrogen Peroxide Electrochemical Sensors Based on Reduced Graphene Oxide	Shamkhalichenar, H; Choi, JW	Journal Of The Electrochemical Society	2020	167	10.1149/1945-7111/ab644a	10	4.386	**9.772**
22.14	A review on recent advancements in electrochemical biosensing using carbonaceous nanomaterials	Sanati, A; Jalali, M; Raeissi, K; Karimzadeh, F; Kharaziha, M; Mahshid, SS; Mahshid, S	Microchimica Acta	2019	186	10.1007/s00604-019-3854-2	10	6.232	**13.464**
22.15	Dopamine-functionalized cyclodextrins: modification of reduced graphene oxide based electrodes and sensing of folic acid in human serum	Chekin, F; Mishyn, V; Barras, A; Lyskawa, J; Ye, R; Melinte, S; Woisel, P; Boukherroub, R; Szunerits, S	Analytical And Bioanalytical Chemistry	2019	411	10.1007/s00216-019-01892-1	10	3.637	**8.274**
22.16	Nafion-Radical Hybrid Films on Carbon Nanotube Transistors for Monitoring Antipsychotic Drug Effects on Stimulated Dopamine Release	Ba, VAP; Cho, DG; Hong, S	Acs Applied Materials & Interfaces	2019	11	10.1021/acsami.8b18752	10	8.758	**18.516**
22.17	Click Chemistry on Gold Electrodes Modified with Reduced Graphene Oxide by Electrophoretic Deposition	Mishyn, V; Aspermair, P; Leroux, Y; Happy, H; Knoll, W; Boukherroub, R; Szunerits, S	Surfaces	2019	2	10.3390/surfaces2010015	10	0	**0.000**
22.18	Application of Graphene and Graphene Oxide for modification of electrochemical sensors and biosensors: A review	Beitollahi, H; Safaei, M; Tajik, S	International Journal Of Nano Dimension	2019	10		10	0	**0.000**
22.19	Electroanalysis of Catecholamine Drugs Using Graphene Modified Electrodes	Mosammam, MK; Ganjali, MR; Habibi-Kool-Gheshlaghi, M; Faridbod, F	Current Analytical Chemistry	2019	15	10.2174/1573411014666180917113206	10	1.365	**3.730**
22.2	Nanomaterial-based electrochemical sensors for the detection of neurochemicals in biological matrices	Azzouz, A; Goud, KY; Raza, N; Ballesteros, E; Lee, SE; Hong, J; Deep, A; Kim, KH	Trac-Trends In Analytical Chemistry	2019	110	10.1016/j.trac.2018.08.002	10	9.801	**20.602**
22.21	Graphene-based bioelectrochemistry and bioelectronics: A concept for the future?	Szunerits, S; Boukherroub, R	Current Opinion In Electrochemistry	2018	12	10.1016/j.coelec.2018.03.028	10	0	**0.000**
22.22	An electrochemical dopamine aptasensor using the modified Au electrode with spindle-shaped gold	Taheri, RA; Eskandari, K; Negandary, M	Microchemical Journal	2018	143	10.1016/j.microc.2018.08.008	10	3.206	**7.412**

	nanostructure								
22.23	Occlusion phenomenon of redox probe by protein as a way of voltammetric detection of non-electroactive C-reactive protein	Kowalczyk, A; Sek, JP; Kasprzak, A; Poplawska, M; Grudzinski, IP; Nowicka, AM	Biosensors & Bioelectronics	2018	117	10.1016/j.bios.2018.06.019	10	9.518	**20.036**
22.24	Electrochemical Aptamer-Based Biosensors for the Detection of Cardiac Biomarkers	Grabowska, I; Sharma, N; Vasilescu, A; Iancu, M; Badea, G; Boukherroub, R; Ogale, S; Szunerits, S	Acs Omega	2018	3	10.1021/acsomega.8b01558	10	2.584	**6.168**
22.25	Electrochemical Determination of Dopamine Using a Graphene-Screen-Printed Carbon Electrode with Magnetic Solid-Phase Microextraction	Avan, AA; Filik, H	Analytical Letters	2018	51	10.1080/00032719.2018.1437624	10	1.248	**3.496**
23	Aqueous Medium-Induced Micropore Formation in Plasa Polymerzed Poystyrene: An effective route to Inhibit Bacteria Adhesion	**R. Jijie,** A Barras, T. Teslaru, I. Topala, V. Pohata, M. Dobromir, T. Dumych, J. Bouckaert, S. Szunerits, N. Dumitrascu, R. Boukherroub	Journal Of Materials Chemistry B	2018	69	10.1039/c7tb02964k	11	5.047	**3.758**
23.1	Plasma-induced graft polymerization on the surface of aramid fabrics with improved omniphobicity and washing durability	Siddig, EAA; Xu, Y; He, T; Gao, M; Yang, BJ; Wang, TS; Zhang, J	Plasma Science & Technology	2020	22	10.1088/2058-6272/ab65dd	11	1.567	**3.758**
24	Time Behaviour of Helium Atmospheric Pressure Plasma Jet Electrical and Optical Parameters	C. Gerber, I. Mihaila, D. Hein, A. Nastuta, **R. Jijie**, V. Pohoata and I. Topala	Applied Sciences	2017	7	10.3390/app7080812	7	1.689	**120.360**
24.1	Cold Atmospheric Pressure Plasma Jet Operated in Ar and He: From Basic Plasma Properties to Vacuum Ultraviolet, Electric Field and Safety Thresholds Measurements in Plasma Medicine	Nastuta, AV; Gerling, T	Applied Sciences-Basel	2022	12	10.3390/app12020644	7	2.838	**9.537**
24.2	Helium Atmospheric Pressure Plasma Jet Source Treatment of White Grapes Juice for Winemaking	Huzum, R; Nastuta, AV	Applied Sciences-Basel	2021	11	10.3390/app11188498	7	2.838	**9.537**
24.3	Evolution of Electrical and Optical Parameters of a Helium Plasma Jet in Interaction With Liquids	Gerber, IC; Mihaila, I; Pohoata, V; Topala, I	IEEE Transactions On Plasma Science	2021	49	10.1109/TPS.2020.3008967	7	1.368	**5.337**

24.4	Plasma Assisted Reduction of Graphene Oxide Films	Kumar, SHBV; Muydinov, R; Szyszka, B	Nanomaterials	2021	11	10.3390/nano11020382	7	5.719	**17.769**
24.5	Data-driven LPV model predictive control of a cold atmospheric plasma jet for biomaterials processing	Gidon, D; Abbas, HS; Bonzanini, AD; Graves, DB; Velni, JM; Mesbah, A	Control Engineering Practice	2021	109	10.1016/j.conengprac.2021.104725	7	4.057	**13.020**
24.6	Handy Soft Jet Plasma as an Effective Technique for Tailored Preparation of ZnS Nanomaterials and Shape Dependent Antibacterial Performance of ZnS	Ananth, A; Han, I; Akter, M; Boo, JH; Choi, EH	Journal Of Industrial And Engineering Chemistry	2020	90	10.1016/j.jiec.2020.07.042	7	6.064	**18.754**
24.7	Electrical and optical characteristics of atmospheric helium jet array plasma	Liu, JJ; Chen, D; Mo, YJ; Rong, Y	Plasma Science & Technology	2019	21	10.1088/2058-6272/ab2b5a	7	1.358	**5.309**
24.8	Machine Learning for Real-Time Diagnostics of Cold Atmospheric Plasma Sources	Gidon, D; Pei, XK; Bonzanini, AD; Graves, DB; Mesbah, A	IEEE Transactions On Radiation And Plasma Medical Sciences	2019	3	10.1109/TRPMS.2019.2910220	7	0	**0.000**
24.9	Predictive control of 2D spatial thermal dose delivery in atmospheric pressure plasma jets	Gidon, D; Graves, DB; Mesbah, A	Plasma Sources Science & Technology	2019	28	10.1088/1361-6595/ab2c66	7	3.193	**10.551**
24.10.	Enhancement of atmospheric plasma jet-target interaction with an external ring electrode	Schweigert, IV; Vagapov, S; Lin, L; Keidar, M	Journal Of Physics D-Applied Physics	2019	52	10.1088/1361-6463/ab1319	7	3.169	**10.483**
24.11	Spatial thermal dose delivery in atmospheric pressure plasma jets	Gidon, D; Graves, DB; Mesbah, A	Plasma Sources Science & Technology	2019	28	10.1088/1361-6595/aafff6	7	3.193	**10.551**
24.12	Development from dielectric barrier discharge to atmospheric pressure plasma jet in helium: experiment and fluid modeling	Zhu, P; Li, B; Duan, ZC; Ouyang, JT	Journal Of Physics D-Applied Physics	2018	51	10.1088/1361-6463/aadb12	7	2.829	**9.511**
25	Nanomaterials for transdermal drug delivery: beyond the state of the art of liposomal structures	**R. Jijie**, A. Barras, R. Boukherroub, S. Szunerits,	Journal Of Materials Chemistry B	2017	5	10.1039/c7tb02529g	4	4.776	**1287.615**
25.1	Exploration of novel drug delivery systems in topical management of osteoarthritis	Patil, P; Nene, S; Shah, S; Singh, SB; Srivastava, S	Drug Delivery And Translational Research	2022		10.1007/s13346-022-01229-z	4	5.671	**30.855**
25.2	Enhancement of the Transdermal Delivery of Nonsteroidal Anti-inflammatory Drugs Using Liposomes Containing Cationic	Kuznetsova, DA; Vasilieva, EA; Kuznetsov, DM; Lenina, OA; Filippov, SK; Petrov, KA; Zakharova, LY;	Acs Omega	2022	7	10.1021/acsomega.2c03039	4	4.132	**23.160**

	Surfactants	Sinyashin, OG							
25.3	Dendrimer as a versatile platform for biomedical application: A review	Patel, V; Patel, P; Patel, JV; Patel, PM	Journal Of The Indian Chemical Society	2022	99	10.1016/j.jics.2022.100516	4	0.243	**3.715**
25.4	Novel Pharmaceutical Strategies for Enhancing Skin Penetration of Biomacromolecules	Zhang, LY; Dong, ZR; Liu, WJ; Wu, XY; He, HS; Lu, Y; Wu, W; Qi, JP	Pharmaceuticals	2022	15	10.3390/ph15070877	4	5.215	**28.575**
25.5	Hyaluronic Acid Micelles for Promoting the Skin Permeation and Deposition of Curcumin	Niu, JX; Yuan, M; Zhang, ZW; Wang, LY; Fan, YL; Liu, XH; Liu, XM; Ya, HY; Zhang, YS; Xu, Y	International Journal Of Nanomedicine	2022	17	10.2147/IJN.S372711	4	7.033	**37.665**
25.6	Recent Advancements and Patents on Buccal Drug Delivery Systems: A Comprehensive Review	Srivastava, N; Aslam, S	Recent Patents On Nanotechnology	2022	16	10.2174/1872210515666210609145144	4	2.321	**14.105**
25.7	In Vivo Topical and Systemic Distribution Kinetics of Liposomes with Various Properties for Application to Drug Delivery Systems	Ibaraki, H; Kanazawa, T	Sensors And Materials	2022	34	10.18494/SAM3673	4	0.879	**6.895**
25.8	Polymeric Nanoparticles for Transdermal Delivery of Polyphenols	Murthy, NTV; Paul, SK; Chauhan, H; Singh, S	Current Drug Delivery	2022	19	10.2174/1567201818666210720144851	4	3.758	**21.290**
25.9	Challenges and Strategies for Topical and Transdermal Delivery of Bioactive Peptides	Jimenez-Rodriguez, A; Guardado-Felix, D; Antunes-Ricardo, M	Critical Reviews In Therapeutic Drug Carrier Systems	2022	39		4	3.097	**17.985**
25.10.	Optical clearing of tissues: Issues of antimicrobial phototherapy and drug delivery	Tuchin, VV; Genina, EA; Tuchina, ES; Svetlakova, AV; Svenskaya, YI	Advanced Drug Delivery Reviews	2022	180	10.1016/j.addr.2021.114037	4	17.873	**91.865**
25.11	Combinatorial Design to Decipher Novel Lead Molecule against Mycobacterium tuberculosis	Ajijur, R; Salman, A; Ahmad, KMK	Biointerface Research In Applied Chemistry	2021	11	10.33263/BRIAC115.1299313004	4	0	**0.000**
25.12	Nanocarriers for Skin Applications: Where Do We Stand?	Tiwari, N; Osorio-Blanco, ER; Sonzogni, A; Esporrin-Ubieto, D; Wang, HY; Calderon, M	Angewandte Chemie-International Edition	2022	61	10.1002/anie.202107960	4	16.823	**86.615**
25.13	Efficacy of transdermal delivery of liposomal micronutrients through body oil massage on neurodevelopmental and	Apte, A; Kapoor, M; Naik, S; Lubree, H; Khamkar, P; Singh, D; Agarwal, D; Roy, S; Kawade, A; Juvekar, S;	Bmc Nutrition	2021	7	10.1186/s40795-021-00458-8	4	0	**0.000**

	micronutrient deficiency status in infants: results of a randomized placebo-controlled clinical trial	Banerjee, R; Bavdekar, A							
25.14	Nano intervention in topical delivery of corticosteroid for psoriasis and atopic dermatitis-a systematic review	Shetty, K; Sherje, AP	Journal Of Materials Science-Materials In Medicine	2021	32	10.1007/s10856-021-06558-y	4	4.727	**26.135**
25.15	Recent advances in transdermal drug delivery systems: a review	Jeong, WY; Kwon, M; Choi, HE; Kim, KS	Biomaterials Research	2021	25	10.1186/s40824-021-00226-6	4	15.863	**81.815**
25.16	Nanomedicines and microneedles: a guide to their analysis and application	Sully, RE; Moore, CJ; Garelick, H; Loizidou, E; Podoleanu, AG; Gubala, V	Analytical Methods	2021	13	10.1039/d1ay00954k	4	3.532	**20.160**
25.17	Reduction and temperature dually-triggered size-shrinkage and drug release of micelles for synergistic photothermal-chemotherapy of cancer	Wu, DF; Xu, ZT; Li, ZH; Yuan, WZ; Wang, HQ; Xie, XY	European Polymer Journal	2021	154	10.1016/j.eurpolymj.2021.110535	4	5.546	**30.230**
25.18	Modern World Applications for Nano-Bio Materials: Tissue Engineering and COVID-19	Melchor-Martinez, EM; Castillo, NTE; Macias-Garbett, R; Lucero-Saucedo, SL; Parra-Saldivar, R; Sosa-Hernandez, JE	Frontiers In Bioengineering And Biotechnology	2021	9	10.3389/fbioe.2021.597958	4	6.064	**32.820**
25.19	Polymers in topical delivery of anti-psoriatic medications and other topical agents in overcoming the barriers of conventional treatment strategies	Yadav, K; Soni, A; Singh, D; Singh, MR	Progress In Biomaterials	2021	10	10.1007/s40204-021-00154-7	4	4.878	**26.890**
25.20.	Characterization ex vivo skin permeation and pharmacological studies of ibuprofen lysinate-chitosan-gold nanoparticles	Jaber, N; Al-Akayleh, F; Abdel-Rahem, RA; Al-Remawi, M	Journal Of Drug Delivery Science And Technology	2021	62	10.1016/j.jddst.2021.102399	4	5.062	**27.810**
25.21	Nanodelivery Systems for Topical Management of Skin Disorders	Cui, MY; Wiraja, C; Chew, SWT; Xu, CJ	Molecular Pharmaceutics	2021	18	10.1021/acs.molpharmaceut.0c00154	4	5.364	**29.320**
25.22	Textile Materials Modified with Stimuli-Responsive Drug Carrier for Skin Topical and Transdermal Delivery	Atanasova, D; Staneva, D; Grabchev, I	Materials	2021	14	10.3390/ma14040930	4	3.748	**21.240**
25.23	Influencing factors and drug	Wang, Y; Zeng, LJ; Song,	Drug Delivery And	2022	12	10.1007/s13	4	5.671	**30.855**

	application of iontophoresis in transdermal drug delivery: an overview of recent progress	WT; Liu, JP	Translational Research			346-021-00898-6			
25.24	Potentiality of Melittin-Loaded Niosomal Vesicles Against Vancomycin-Intermediate Staphylococcus aureus and Staphylococcal Skin Infection	Sangboonruang, S; Semakul, N; Obeid, MA; Ruano, M; Kitidee, K; Anukool, U; Pringproa, K; Chantawannakul, P; Ferro, V; Tragoolpua, Y; Tragoolpua, K	International Journal Of Nanomedicine	2021	16	10.2147/IJN.S325901	4	7.033	**37.665**
25.25	Towards nanoformulations for skin delivery of poorly soluble API: What does indeed matter?	Apolinario, AC; Hauschke, L; Nunes, JR; Lopes, LB	Journal Of Drug Delivery Science And Technology	2020	60	10.1016/j.jddst.2020.102045	4	3.981	**22.405**
25.26	Investigations of amphiphilic butylglyceryl-functionalized dextran nanoparticles for topical delivery	Bostanudin, MF; Noor, NSM; Sahudin, S; Lazim, AM; Tan, SF; Sarker, MZI	Journal Of Applied Polymer Science	2021	138	10.1002/app.50235	4	3.057	**17.785**
25.27	Nanoparticulate Antibiotic Systems as Antibacterial Agents and Antibiotic Delivery Platforms to Fight Infections	Vassallo, A; Silletti, MF; Faraone, I; Milella, L	Journal Of Nanomaterials	2020	2020	10.1155/2020/6905631	4	2.986	**17.430**
25.28	Recent Advances in the Structural Design of Photosensitive Agent Formulations Using Soft Colloidal Nanocarriers	Pucek, A; Tokarek, B; Waglewska, E; Bazylinska, U	Pharmaceutics	2020	12	10.3390/pharmaceutics12060587	4	6.321	**34.105**
25.29	Emerging trends in nanomedicine for topical delivery in skin disorders: Current and translational approaches	Pandey, P; Satija, S; Wadhwa, R; Mehta, M; Purohit, D; Gupta, G; Prasher, P; Chellappan, DK; Awasthi, R; Dureja, H; Dua, K	Dermatologic Therapy	2020	33	10.1111/dth.13292	4	2.851	**16.755**
25.30.	Noninvasive transdermal delivery of liposomes by weak electric current	Hasan, M; Khatun, A; Fukuta, T; Kogure, K	Advanced Drug Delivery Reviews	2020	154	10.1016/j.addr.2020.06.016	4	15.47	**79.850**
25.31	Development, Characterization and Use of Liposomes as Amphipathic Transporters of Bioactive Compounds for Melanoma Treatment and Reduction of Skin Inflammation: A Review	Castaneda-Reyes, ED; Perea-Flores, MD; Davila-Ortiz, G; Lee, Y; de Mejia, EG	International Journal Of Nanomedicine	2020	15	10.2147/IJN.S263516	4	6.4	**34.500**
25.32	Nanoscale dynamic chemical, biological sensor material designs	El-Safty, SA; Shenashen, MA	Materials Today Bio	2020	5	10.1016/j.mtbio.2020.100	4	7.348	**39.240**

	for control monitoring and early detection of advanced diseases					044			
25.33	Micro- and Nanosystems for Advanced Transdermal Delivery	Yan, L; Alba, M; Tabassum, N; Voelcker, NH	Advanced Therapeutics	2019	2	10.1002/adtp.201900141	4	0	**0.000**
25.34	Nanomaterial and advanced technologies in transdermal drug delivery	Rabiei, M; Kashanian, S; Samavati, SS; Jamasb, S; McInnes, SJP	Journal Of Drug Targeting	2020	28	10.1080/1061186X.2019.1693579	4	5.121	**28.105**
25.35	Transdermal delivery of small interfering RNAs with topically applied mesoporous silica nanoparticles for facile skin cancer treatment	Lio, DCS; Liu, CH; Oo, MMS; Wiraja, C; Teo, MHY; Zheng, MJ; Chew, SWT; Wang, XM; Xu, CJ	Nanoscale	2019	11	10.1039/c9nr06303j	4	6.895	**36.975**
25.36	Transformer-ethosomes with palmitoyl pentapeptide for improved transdermal delivery	Kim, JE; Oh, GH; Jang, GH; Kim, YM; Park, YJ	Journal Of Drug Delivery Science And Technology	2019	52	10.1016/j.jddst.2019.04.039	4	2.734	**16.170**
25.37	Mannose-Modified Multi-Walled Carbon Nanotubes as a Delivery Nanovector Optimizing the Antigen Presentation of Dendritic Cells	Dong, ZP; Wang, QY; Huo, M; Zhang, NX; Li, BX; Li, HM; Xu, YS; Chen, M; Hong, H; Wang, Y	Chemistryopen	2019	8	10.1002/open.201900126	4	2.05	**12.750**
25.38	In Vitro Drug Dissolution/Permeation Testing of Nanocarriers for Skin Application: a Comprehensive Review	Sheshala, R; Anuar, NK; Abu Samah, NH; Wong, TW	Aaps Pharmscitech	2019	20	10.1208/s12249-019-1362-7	4	2.401	**14.505**
25.39	Microcapsule-embedded hydrogel patches for ultrasound responsive and enhanced transdermal delivery of diclofenac sodium	Huang, D; Sun, M; Bu, YZ; Luo, F; Lin, CY; Lin, ZY; Weng, ZQ; Yang, F; Wu, DC	Journal Of Materials Chemistry B	2019	7	10.1039/c8tb02928h	4	5.344	**29.220**
25.40.	Drug-in-micelles-in-liposomes (DiMiL) systems as a novel approach to prevent drug leakage from deformable liposomes	Franze, S; Musazzi, UM; Minghetti, P; Cilurzo, F	European Journal Of Pharmaceutical Sciences	2019	130	10.1016/j.ejps.2019.01.013	4	3.616	**20.580**
25.41	alpha-Linolenic acid-modified pluronic 127-CS copolymeric micelles for the skin targeted delivery of amphotericin B	Zhou, FL; Xu, HM; Song, ZM; Zhu, L; Feng, SJ; Feng, RL	New Journal Of Chemistry	2019	43	10.1039/c8nj03847c	4	3.288	**18.940**
25.42	Poly(ester amide)-based hybrid hydrogels for efficient transdermal insulin delivery	Zhang, SH; Xin, PK; Ou, QM; Hollett, G; Gu, ZP; Wu, J	Journal Of Materials Chemistry B	2018	6	10.1039/c8tb01466c	4	5.047	**27.735**
25.43	Polyamidoamine Dendrimer Microgels: Hierarchical	Wang, J; Cooper, RC; He, HL; Li, BX; Yang, H	Macromolecules	2018	51	10.1021/acs.macromol.8	4	5.997	**32.485**

	Arrangement of Dendrimers into Micrometer Domains with Expanded Structural Features for Programmable Drug Delivery and Release					b01006			
25.44	Heat: A Highly efficient Skin enhancer for Transdermal Drug Delivery	Szunerits, S; Boukherroub, R	Frontiers In Bioengineering And Biotechnology	2018	6	10.3389/fbioe.2018.00015	4	5.122	**28.110**
25.45	Delving Deeper into Dermal and Transdermal Drug Delivery: Factors and Mechanisms Associated with Nanocarrier-mediated Strategies	Manikkath, J; Sumathy, TK; Manikkath, A; Mutalik, S	Current Pharmaceutical Design	2018	24	10.2174/1381612824666180924122640	4	2.412	**14.560**
25.46	A theranostic nanocomposite system based on radial mesoporous silica hybridized with Fe3O4 nanoparticles for targeted magnetic field responsive chemotherapy of breast cancer	Gao, Q; Xie, WS; Wang, Y; Wang, D; Guo, ZH; Gao, F; Zhao, LY; Cai, Q	Rsc Advances	2018	8	10.1039/c7ra12446e	4	3.049	**17.745**
26	Selective isolation and eradication of E. coli associated with urinary tract infections using anti-fimbrial modified magnetic reduced graphene oxide nanoheaters	F. Halouane1, **R. Jijie1**, D. Meziane, C. Li, SK Singh, J Bouckaert, J Jurazek, S Kurungot, A Barras, M. Li, R. Boukherroub, S. Szunerits	Journal Of Materials Chemistry B	2017	5	10.1039/c7tb01890h	12	4.776	**134.563**
26.1	Effective PDT/PTT dual-modal phototherapeutic killing of bacteria by using poly(N-phenylglycine) nanoparticles	Ghayyem, S; Barras, A; Faridbod, F; Szunerits, S; Boukherroub, R	Microchimica Acta	2022	189	10.1007/s00604-022-05181-0	12	6.408	**11.513**
26.2	Mass spectrometry based targeted metabolomics precisely characterized new functional metabolites that regulate biofilm formation in Escherichia coli	Guo, R; Luo, XL; Liu, JJ; Lu, HT	Analytica Chimica Acta	2021	1145	10.1016/j.aca.2020.12.021	12	6.911	**12.352**
26.3	Wireless electrochemical and luminescent detection of bacteria based on surface-coated CsWO3-immobilized fluorescent carbon dots with photothermal ablation of bacteria	Robby, AI; Kim, SG; Lee, UH; In, I; Lee, G; Park, SY	Chemical Engineering Journal	2021	403	10.1016/j.cej.2020.126351	12	4.446	**8.243**
26.4	Rapid and sensitive identification of	Andrei, CC; Moraillon, A;	Talanta	2020	219	10.1016/j.tal	12	6.057	**10.928**

	uropathogenic Escherichia coli using a surface-enhanced-Raman-scattering-based biochip	Lau, S; Felidj, N; Yamakawa, N; Bouckaert, J; Larquet, E; Boukherroub, R; Ozanam, F; Szunerits, S; Gouget-Laemmel, AC				anta.2020.121174			
26.5	Targeted Metabolomics Revealed the Regulatory Role of Manganese on Small-Molecule Metabolism of Biofilm Formation in Escherichia coli	Guo, R; Lu, HT	Journal Of Analysis And Testing	2020	4	10.1007/s41664-020-00139-8	12	0	**0.000**
26.6	Immobilization Techniques for Aptamers on Gold Electrodes for the Electrochemical Detection of Proteins: A Review	Oberhaus, FV; Frense, D; Beckmann, D	Biosensors-Basel	2020	10	10.3390/bios10050045	12	5.519	**10.032**
26.7	Well-water-dispersed N-trimethyl chitosan/Fe3O4 hybrid nanoparticles as peroxidase mimetics for quick and effective elimination of bacteria	Wang, XJ; Wan, RX; Gu, HQ; Fu, GQ; Tang, HQ; Hu, GY	Journal Of Biomaterials Science-Polymer Edition	2020	31	10.1080/09205063.2020.1733751	12	3.517	**6.695**
26.8	Interaction of cellulose and nitrodopamine coated superparamagnetic iron oxide nanoparticles with alpha-lactalbumin	Mohammadi, F; Moeeni, M; Li, CN; Boukherroub, R; Szunerits, S	Rsc Advances	2020	10	10.1039/c9ra09045b	12	3.361	**6.435**
26.9	Successive removal of E. coli and a mixture of Pb2+ and malachite green from water via magnetic iron oxide/phosphate nanocomposites	Zhang, F; Wu, ZZ; Huang, YX; Keller, AA	Colloids And Surfaces A-Physicochemical And Engineering Aspects	2019	578	10.1016/j.colsurfa.2019.123598	12	3.99	**7.483**
26.1	Rapid isolation of Escherichia coli from water samples using magnetic microdiscs	Castillo-Torres, KY; Arnold, DP; McLamore, ES	Sensors And Actuators B-Chemical	2019	291	10.1016/j.snb.2019.04.043	12	7.1	**12.667**
26.11	Magnetic Particles for Advanced Molecular Diagnosis	Chircov, C; Grumezescu, AM; Holban, AM	Materials	2019	12	10.3390/ma12132158	12	3.057	**5.928**
26.12	An efficient isolation of foodborne pathogen using surface-modified porous sponge	Choi, Y; Kim, YT; You, JB; Jo, SH; Lee, SJ; Im, SG; Lee, KG	Food Chemistry	2019	270	10.1016/j.foodchem.2018.07.125	12	6.306	**11.343**
26.13	Graphene Materials in Antimicrobial Nanomedicine: Current Status and Future Perspectives	Karahan, HE; Wiraja, C; Xu, CJ; Wei, J; Wang, YL; Wang, L; Liu, F; Chen, Y	Advanced Healthcare Materials	2018	7	10.1002/adhm.201701406	12	6.27	**11.283**

26.14	Graphene-based biosensors	Szunerits, S; Boukherroub, R	Interface Focus	2018	8	10.1098/rsfs.2016.0132	12	3.092	**5.987**
26.15	Highly efficient bacterial removal and disinfection by magnetic barium phosphate nanoflakes with embedded iron oxide nanoparticles	Song, JY; Zhang, F; Huang, YX; Keller, AA; Tang, XX; Zhang, WN; Jia, WB; Santos, J	Environmental Science-Nano	2018	5	10.1039/c8en00403j	12	7.704	**13.673**
27	On demand electrochemical release of drugs from porous reduced graphene oxide modified flexible electrodes	S. Boulahneche, **R. Jijie**, A. Barras, F. Chekin, S. K. Singh, J. Bouckaert, M. Medjram, S. Kurungot, R. Boukherroub and S. Szunerits	Journal Of Materials Chemistry B	2017	5	10.1039/c7tb00687j	10	4.776	**40.770**
27.1	Click chemistry: a fascinating method of connecting organic groups	Amna, B; Ozturk, T	Organic Communications	2021	14	10.25135/acg.oc.100.21.03.2006	10	0	**0.000**
27.2	A Comprehensive Insight Towards Pharmaceutical Aspects of Graphene Nanosheets	Emadi, F; Emadi, A; Gholami, A	Current Pharmaceutical Biotechnology	2020	21	10.2174/1389201021666200318131422	10	2.837	**6.674**
27.3	Remotely stimulated nanomedicine for breast cancer therapy	Khan, A; Sahu, NK	Nanomedicines For Breast Cancer Theranostics	2020		10.1016/B978-0-12-820016-2.00006-9	10	0	**0.000**
27.4	A porous reduced graphene oxide/chitosan-based nanocarrier as a delivery system of doxorubicin	Hazhir, N; Chekin, F; Raoof, JB; Fathi, S	Rsc Advances	2019	9	10.1039/c9ra04977k	10	3.119	**7.238**
27.5	Efficient capture and photothermal ablation of planktonic bacteria and biofilms using reduced graphene oxide-polyethyleneimine flexible nanoheaters	Budimir, M; Jijie, R; Ye, R; Barras, A; Melinte, S; Silhanek, A; Markovic, Z; Szunerits, S; Boukherroub, R	Journal Of Materials Chemistry B	2019	7	10.1039/c8tb01676c	10	5.344	**0.000**
27.6	Reduced Graphene-Oxide-Embedded Polymeric Nanofiber Mats: An On-Demand Photothermally Triggered Antibiotic Release Platform	Altinbasak, I; Jijie, R; Barras, A; Golba, B; Sanyal, R; Bouckaert, J; Drider, D; Bilyy, R; Dumych, T; Paryzhak, S; Vovk, V; Boukherroub, R; Sanyal, A; Szunerits, S	Acs Applied Materials & Interfaces	2018	10	10.1021/acsami.8b14784	10	8.456	**17.912**
27.7	Enhanced antibacterial activity of carbon dots functionalized with ampicillin combined with visible light triggered photodynamic	Jijie, R; Barras, A; Bouckaert, J; Dumitrascu, N; Szunerits, S; Boukherroub, R	Colloids And Surfaces B-Biointerfaces	2018	170	10.1016/j.colsurfb.2018.06.040	10	3.973	**8.946**

	effects								
27.8	Graphene-based nanomaterials in innovative electrochemistry	Szunerits, S; Boukherroub, R	Current Opinion In Electrochemistry	2018	10	10.1016/j.coelec.2018.03.016	10	0	**0.000**
27.9	Functionalization of Reduced Graphene Oxide via Thiol-Maleimide Click Chemistry: Facile Fabrication of Targeted Drug Delivery Vehicles	Oz, Y; Barras, A; Sanyal, R; Boukherroub, R; Szunerits, S; Sanyal, A	Acs Applied Materials & Interfaces	2017	9	10.1021/acsami.7b08433	10	0	**0.000**
28	Formation of positive ions in hydrocarbon containing dielectric barrier discharge plasma	I. Mihaila, V. Pohoata, **R. Jijie**, A.V. Nastuta, I. Rusu and I. Topala	Advances In Space Research	2016	58	10.1016/j.asr.2016.08.010	6	1.401	**27.147**
28.1	Carbon 'fluffy' aggregates produced by helium-hydrocarbon high-pressure plasmas as analogues to interstellar dust	Hodoroaba, B; Gerber, IC; Ciubotaru, D; Mihaila, I; Dobromir, M; Pohoata, V; Topala, I	Monthly Notices Of The Royal Astronomical Society	2018	481	10.1093/mnras/sty2497	6	5.231	**19.103**
28.2	Diagnosis of a short-pulse dielectric barrier discharge at atmospheric pressure in helium with hydrogen-methane admixtures	Nastuta, AV; Pohoata, V; Mihaila, I; Topala, I	Physics Of Plasmas	2018	25	10.1063/1.5017097	6	1.913	**8.043**
29	A 980 nm driven photothermal ablation of virulent and antibiotic resistant Gram-positive and Gram-negative bacteria strains using Prussian blue nanoparticles	M. Houcem, **R. Jijie**, G. Pan, D. Drider, D. Caly, J. Bouckaert, N. Dumitrascu, R. Chtourou, S. Szuneritz and R. Boukherroub	Journal Of Colloid And Interface Science	2016	480	10.1016/j.jcis.2016.07.002	10	4.233	**682.030**
29.1	Advancements of Prussian blue-based nanoplatforms in biomedical fields: Progress and perspectives	Wang, YH; Liang, ZH; Liang, ZY; Lv, WF; Chen, M; Zhao, Y	Journal Of Controlled Release	2022	351	10.1016/j.jconrel.2022.10.007	10	11.467	**23.934**
29.2	Recent progress in multifunctional conjugated polymer nanomaterial-based synergistic combination phototherapy for microbial infection theranostics	Manivasagan, P; Kim, J; Jang, ES	Coordination Chemistry Reviews	2022	470	10.1016/j.ccr.2022.214701	10	24.833	**50.666**
29.3	Sweet light o? mine: Photothermal and photodynamic inactivation of tenacious pathogens using conjugated polymers	Ponzio, RA; Ibarra, LE; Achilli, EE; Odella, E; Chesta, CA; Martinez, SR; Palacios, RE	Journal Of Photochemistry And Photobiology B-Biology	2022	234	10.1016/j.jphotobiol.2022.112510	10	6.814	**14.628**
29.4	Prussian Blue Nanocubes	Ma, ZW; Li, WR; Zhang, JY;	Acs Applied Nano	2022		10.1021/acsa	10	6.14	**13.280**

	Decorated with Ag Nanoparticles for Near-Infrared Triggered Release of Bactericidal Ag+, Fe2+, and Fe3+ Ions	Yang, WX; Tan, SZ; Cai, JY; Deng, SP	Materials			nm.2c01685			
29.5	Novel conjugated small molecule-based nanoparticles for NIR-II photothermal antibacterial therapy	Jia, WY; Huang, FF; Zhang, Q; Zhao, LL; Li, CX; Lu, Y	Chemical Communications	2022	58	10.1039/d2cc00863g	10	6.065	**13.130**
29.6	Effective PDT/PTT dual-modal phototherapeutic killing of bacteria by using poly(N-phenylglycine) nanoparticles	Ghayyem, S; Barras, A; Faridbod, F; Szunerits, S; Boukherroub, R	Microchimica Acta	2022	189	10.1007/s00604-022-05181-0	10	6.408	**13.816**
29.7	Mild Hyperthermia Induced by Hollow Mesoporous Prussian Blue Nanoparticles in Alliance with a Low Concentration of Hydrogen Peroxide Shows Powerful Antibacterial Effect	Li, YT; Zhu, Y; Wang, C; Shen, Y; Liu, L; Zhou, SW; Cui, PF; Hu, HZ; Jiang, PJ; Ni, XY; Qiu, L; Wang, JH	Molecular Pharmaceutics	2022	19	10.1021/acs.molpharmaceut.1c00765	10	5.364	**11.728**
29.8	NIR-responsive waterborne polyurethane-polydopamine coatings for light-driven disinfection of surfaces	Alkan-Tas, B; Berksun, E; Tas, CE; Unal, S; Unal, H	Progress In Organic Coatings	2022	164	10.1016/j.porgcoat.2021.106669	10	6.206	**13.412**
29.9	Skin-permissible NIR-actuated hyperthermia using a photothermally responsive hydrogel membrane for the effective treatment of antibiotic-resistant bacterial infection	Yu, ZP; Sun, J; Deng, HL; Kan, H; Xu, C; Dong, K	Biomaterials Science	2022	10	10.1039/d1bm01819a	10	7.59	**16.180**
29.10.	Triggering Drug Release and Thermal-Disrupting Interface Induced Mitigation of Composite Photothermal Hydrogel Treating Infectious Wounds	Hua, L; Qian, H; Lei, T; Liu, WB; He, X; Hu, YH; Lei, PF	Frontiers In Bioengineering And Biotechnology	2021	9	10.3389/fbioe.2021.796602	10	6.064	**13.128**
29.11	Comparative study of an antimicrobial peptide and a neuropeptide conjugated with gold nanorods for the targeted photothermal killing of bacteria	Sankari, SS; Dahms, HU; Tsai, MF; Lo, YL; Wang, LF	Colloids And Surfaces B-Biointerfaces	2021	208	10.1016/j.colsurfb.2021.112117	10	5.999	**12.998**
29.12	Synthesis of photothermal antimicrobial cotton gauze using AuNPs as photothermal	Cao, FY; Wei, CM; Ma, GQ; Hou, LK; Zhang, RC; Mei, L; Qin, Q	Rsc Advances	2021	11	10.1039/d1ra01597d	10	4.036	**9.072**

	transduction agents								
29.13	Emerging photothermal-derived multimodal synergistic therapy in combating bacterial infections	Huo, JJ; Jia, QY; Huang, H; Zhang, J; Li, P; Dong, XC; Huang, W	Chemical Society Reviews	2021	50	10.1039/d1cs00074h	10	60.615	**122.230**
29.14	Identification of carbapenems resistant genes on biofilm forming K. pneumoniae from urinary tract infection	Rajivgandhi, GN; Alharbi, NS; Kadaikunnan, S; Khaled, JM; Kanisha, CC; Ramachandran, G; Manoharan, N; Alanzi, KF	Saudi Journal Of Biological Sciences	2021	28	10.1016/j.sjbs.2020.12.016	10	4.052	**9.104**
29.15	Iodine-doped carbon dots with inherent peroxidase catalytic activity for photocatalytic antibacterial and wound disinfection	Wang, XL; Lu, YG; Hua, KW; Yang, DZ; Yang, YL	Analytical And Bioanalytical Chemistry	2021	413	10.1007/s00216-020-03100-x	10	4.478	**9.956**
29.16	Nanomaterials-based photothermal therapy and its potentials in antibacterial treatment	Chen, Y; Gao, YJ; Chen, Y; Liu, L; Mo, AC; Peng, Q	Journal Of Controlled Release	2020	328	10.1016/j.jconrel.2020.08.055	10	9.776	**20.552**
29.17	Photoresponsive Materials for Antibacterial Applications	Ren, YW; Liu, HP; Liu, XM; Zheng, YF; Li, ZY; Li, CY; Yeung, KWK; Zhu, SL; Liang, YQ; Cui, ZD; Wu, SL	Cell Reports Physical Science	2020	1	10.1016/j.xcrp.2020.100245	10	0	**0.000**
29.18	Multifunctional Prussian blue-based nanomaterials: Preparation, modification, and theranostic applications	Wang, XW; Cheng, L	Coordination Chemistry Reviews	2020	419	10.1016/j.ccr.2020.213393	10	22.315	**45.630**
29.19	Finely tuned Prussian blue-based nanoparticles and their application in disease treatment	Gao, Y; Yu, GC; Xing, KR; Gorin, D; Kotelevtsev, Y; Tong, WJ; Mao, ZW	Journal Of Materials Chemistry B	2020	8	10.1039/d0tb01248c	10	6.331	**13.662**
29.20.	Prussian blue nanoparticles: synthesis, surface modification, and biomedical applications	Busquets, MA; Estelrich, J	Drug Discovery Today	2020	25	10.1016/j.drudis.2020.05.014	10	7.851	**16.702**
29.21	Robust dual modality antibacterial action using silver-Prussian blue nanoscale coordination polymer	Sharma, S; Chakraborty, N; Jha, D; Gautam, HK; Roy, I	Materials Science & Engineering C-Materials For Biological Applications	2020	113	10.1016/j.msec.2020.110982	10	7.328	**15.656**
29.22	Photothermally active nanoparticles as a promising tool for eliminating bacteria and biofilms	Borzenkov, M; Pallavicini, P; Taglietti, A; D'Alfonso, L; Collini, M; Chirico, G	Beilstein Journal Of Nanotechnology	2020	11	10.3762/bjnano.11.98	10	3.649	**8.298**
29.23	Peroxidase-like behavior and photothermal effect of chitosan-	Chakraborty, N; Jha, D; Gautam, HK; Roy, I	Materials Advances	2020	1	10.1039/d0ma00231c	10	0	**0.000**

	coated Prussian-blue nanoparticles: dual-modality antibacterial action with enhanced bioaffinity								
29.24	Photothermal Effect-based Cytotoxic Ability of Melanin from Mytilus edulis Shells to Heal Wounds Infected with Drug-resistant Bacteria in vivo	Liu, YM; Ma, WS; Wei, YX; Xu, YH	Biomedical And Environmental Sciences	2020	33	10.3967/bes2020.052	10	3.118	**7.236**
29.25	PB@PDA@Ag nanosystem for synergistically eradicating MRSA and accelerating diabetic wound healing assisted with laser irradiation	Tong, CY; Zhong, XH; Yang, YJ; Liu, X; Zhong, GW; Xiao, C; Liu, B; Wang, W; Yang, XP	Biomaterials	2020	243	10.1016/j.biomaterials.2020.119936	10	12.479	**25.958**
29.26	Facile processing for instant production of clinically-approvable nanoagents for combination cancer therapy	Gautam, M; Poudel, BK; Soe, ZC; Poudel, K; Maharjan, S; Ku, SK; Yong, CS; Joo, SW; Kim, JO; Byeon, JH	Chemical Engineering Journal	2020	383	10.1016/j.cej.2019.123177	10	13.273	**27.546**
29.27	Bienzymatic synergism of vanadium oxide nanodots to efficiently eradicate drug-resistant bacteria during wound healing in vivo	Ma, WS; Zhang, TT; Li, RG; Niu, YS; Yang, XC; Liu, J; Xu, YH; Li, CM	Journal Of Colloid And Interface Science	2020	559	10.1016/j.jcis.2019.09.040	10	8.128	**17.256**
29.28	Thiol chitosan-wrapped gold nanoshells for near-infrared laser-induced photothermal destruction of antibiotic-resistant bacteria	Manivasagan, P; Khan, F; Hoang, G; Mondal, S; Kim, H; Doan, VHM; Kim, YM; Oh, J	Carbohydrate Polymers	2019	225	10.1016/j.carbpol.2019.115228	10	7.182	**15.364**
29.29	Photothermally Active Inorganic Nanoparticles: from Colloidal Solutions to Photothermally Active Printed Surfaces and Polymeric Nanocomposite Materials	Borzenkov, M; Pallavicini, P; Chirico, G	European Journal Of Inorganic Chemistry	2019	2019	10.1002/ejic.201900836	10	2.529	**6.058**
29.30.	Acetylcysteine-decorated Prussian blue nanoparticles for strong photothermal sterilization and focal infection treatment	Cai, SY; Qian, J; Yang, S; Kuang, LJ; Hua, DB	Colloids And Surfaces B-Biointerfaces	2019	181	10.1016/j.colsurfb.2019.05.007	10	4.389	**9.778**
29.31	Novel photo-thermally active polyvinyl alcohol-Prussian blue nanoparticles hydrogel films capable of eradicating bacteria and mitigating biofilms	Borzenkov, M; D'Alfonso, L; Polissi, A; Sperandeo, P; Collini, M; Dacarro, G; Taglietti, A; Chirico, G; Pallavicini, P	Nanotechnology	2019	30	10.1088/1361-6528/ab15f9	10	3.551	**8.102**

29.32	Nanomaterials with a photothermal effect for antibacterial activities: an overview	Xu, JW; Yao, K; Xu, ZK	Nanoscale	2019	11	10.1039/c9nr01833f	10	6.895	**14.790**
29.33	Prussian Blue Analogue Islands on BiOCl-Se Nanosheets for MR/CT Imaging-Guided Photothermal/Photodynamic Cancer Therapy	Chen, XJ; Wang, R; Liu, DD; Tian, Y; Ye, L	Acs Applied Bio Materials	2019	2	10.1021/acsabm.8b00786	10	0	**0.000**
29.34	Progress in Applications of Prussian Blue Nanoparticles in Biomedicine	Qin, ZG; Li, Y; Gu, N	Advanced Healthcare Materials	2018	7	10.1002/adhm.201800347	10	6.27	**13.540**
29.35	Enhanced antibacterial activity of carbon dots functionalized with ampicillin combined with visible light triggered photodynamic effects	**Jijie**, R; Barras, A; Bouckaert, J; Dumitrascu, N; Szunerits, S; Boukherroub, R	Colloids And Surfaces B-Biointerfaces	2018	170	10.1016/j.colsurfb.2018.06.040	10	0	**0.000**
29.36	Prussian Blue Nanoparticles as a Versatile Photothermal Tool	Dacarro, G; Taglietti, A; Pallavicini, P	Molecules	2018	23	10.3390/molecules23061414	10	3.06	**7.120**
29.37	Highly efficient photothermal sterilization of water mediated by Prussian blue nanocages	Jiang, TT; He, JJ; Sun, L; Wang, YL; Li, ZL; Wang, Q; Sun, Y; Wang, W; Yu, M	Environmental Science-Nano	2018	5	10.1039/c7en01245d	10	7.704	**16.408**
29.38	Facile preparation of Prussian blue/polypyrrole hybrid nanofibers as robust peroxidase mimics for colorimetric detection of L-cysteine	Song, N; Zhu, Y; Ma, FQ; Wang, C; Lu, XF	Materials Chemistry Frontiers	2018	2	10.1039/c7qm00571g	10	0	**0.000**
29.39	Bioinorganic antimicrobial strategies in the resistance era	Regiel-Futyra, A; Dabrowski, JM; Mazuryk, O; Spiewak, K; Kyziol, A; Pucelik, B; Brindell, M; Stochel, G	Coordination Chemistry Reviews	2017	351	10.1016/j.ccr.2017.05.005	10	14.499	**29.998**
29.40.	Tl-201-labeled Prussian blue and Au@Prussian blue nanoprobes for SPEC-CT imaging: influence of the size, shape and coating on the biodistribution	Maurin-Pasturel, G; Rascol, E; Busson, M; Sevestre, S; Lai-Kee-Him, J; Bron, P; Long, J; Chopineau, J; Devoisselle, JM; Guari, Y; Larionova, J	Inorganic Chemistry Frontiers	2017	4	10.1039/c7qi00321h	10	5.106	**11.212**
29.41	Self-assembled monolayers of Prussian blue nanoparticles with photothermal effect	Dacarro, G; Grisoli, P; Borzenkov, M; Milanese, C; Fratini, E; Ferraro, G; Taglietti, A; Pallavicini, P	Supramolecular Chemistry	2017	29	10.1080/10610278.2017.1372582	10	1.451	**3.902**
30	Particle-based photodynamic	**R. Jijie**, T. Dumych, L.	Journal Of Materials	2016	4	10.1039/c5tb	11	4.543	**142.902**

	therapy based on Indocyanine green modified plasmonic nanostructures for inactivation of Crohn's disease-associated Escherichia coli	Chengnang, J. Bouckaert, K. Turcheniuk, C. Hage, L. Heliot, B. Cudennec, N. Dumitrascu, R. Boukherroub and S. Szunerits	Chemistry B			02697k			
30.1	Emerging Strategies in Enhancing Singlet Oxygen Generation of Nano-Photosensitizers Toward Advanced Phototherapy	Yaraki, MT; Liu, B; Tan, YN	Nano-Micro Letters	2022	14	10.1007/s40820-022-00856-y	11	23.655	**43.918**
30.2	Effective PDT/PTT dual-modal phototherapeutic killing of bacteria by using poly(N-phenylglycine) nanoparticles	Ghayyem, S; Barras, A; Faridbod, F; Szunerits, S; Boukherroub, R	Microchimica Acta	2022	189	10.1007/s00604-022-05181-0	11	6.408	**12.560**
30.3	A Smart Drug Delivery System Based on Thermo-Responsive Polymer Gated Au NRs@SiO2 Nano-Platform	Wang, HZ; Chen, MX; Song, LP; Huang, YJ	Journal Of Nanoelectronics And Optoelectronics	2021	16	10.1166/jno.2021.3071	11	0.697	**2.176**
30.4	Plasmonic nano-antimicrobials: properties, mechanisms and applications in microbe inactivation and sensing	An, XD; Erramilli, S; Reinhard, BM	Nanoscale	2021	13	10.1039/d0nr08353d	11	8.307	**16.013**
30.5	X-ray-Excited Super-Long Green Persistent Luminescence from Tb3+ Monodoped beta-NaYF4	Hu, Y; Yang, YM; Zhang, XF; Wang, X; Li, XX; Li, YQ; Li, TY; Zhang, HW	Journal Of Physical Chemistry C	2020	124	10.1021/acs.jpcc.0c06884	11	4.126	**8.411**
30.6	Broad spectrum antibacterial photodynamic and photothermal therapy achieved with indocyanine green loaded SPIONs under near infrared irradiation	Bilici, K; Atac, N; Muti, A; Baylam, I; Dogan, O; Sennaroglu, A; Can, F; Acar, HY	Biomaterials Science	2020	8	10.1039/d0bm00821d	11	6.843	**13.351**
30.7	Photodynamic Inactivation of Staphylococcus epidermidis: Application of PEGylated Gold Nanoparticles	Kariminezhad, H; Mousapour, M; Khorram, S; Amani, H	Arabian Journal For Science And Engineering	2020	45	10.1007/s13369-019-04248-0	11	2.334	**5.153**
30.8	Comparative Study on the Impact of Growth Conditions on the Physiology and the Virulence of Pseudomonas aeruginosa Biofilm and Planktonic Cells	Khelissa, SO; Abdallah, M; Jama, C; Barras, A; Chihib, NE	Journal Of Food Protection	2019	82	10.4315/0362-028X.JFP-18-565	11	1.581	**3.784**

30.9	Research Progress on Photodynamic Therapy for Gastrointestinal Diseases	Wang, JW; Hong, G; Liu, TJ	Laser & Optoelectronics Progress	2019	56	10.3788/LOP56.040001	11	0	**0.909**
30.10.	Enhanced antibacterial activity of carbon dots functionalized with ampicillin combined with visible light triggered photodynamic effects	**Jijie**, R; Barras, A; Bouckaert, J; Dumitrascu, N; Szunerits, S; Boukherroub, R	Colloids And Surfaces B-Biointerfaces	2018	170	10.1016/j.colsurfb.2018.06.040	11	0	**0.000**
30.11	Photodynamic inactivation assisted by localized surface plasmon resonance of silver nanoparticles: In vitro evaluation on Escherichia coli and Streptococcus mutans	Ribeiro, MS; de Melo, LSA; Farooq, S; Baptista, A; Kato, IT; Nunez, SC; de Araujo, RE	Photodiagnosis And Photodynamic Therapy	2018	22	10.1016/j.pdpdt.2018.04.007	11	2.589	**5.616**
30.12	Synthesis of gold-spikes decorated biomimetic silica microrod for photothermal agents	Lee, H; Han, S; Kim, Y	Journal Of Industrial And Engineering Chemistry	2018	58	10.1016/j.jiec.2017.09.003	11	4.978	**9.960**
30.13	Enhancement of photo-bactericidal effect of tetrasulfonated hydroxyaluminum phthalocyanine on Pseudomonas aeruginosa	Maliszewska, I; Kaas, W; Wysokinska, E; Tylus, W; Pietrzyk, N; Popko, K; Palewska, K	Lasers In Medical Science	2018	33	10.1007/s10103-017-2337-0	11	2.076	**4.684**
30.14	A bacteria-activated photodynamic nanosystem based on polyelectrolyte-coated silica nanoparticles	Zhao, ZW; Yan, R; Wang, JH; Wu, H; Wang, YH; Chen, AH; Shao, SL; Li, YQ	Journal Of Materials Chemistry B	2017	5	10.1039/c7tb00199a	11	4.776	**9.593**
30.15	Towards Effective Photothermal/Photodynamic Treatment Using Plasmonic Gold Nanoparticles	Bucharskaya, A; Maslyakova, G; Terentyuk, G; Yakunin, A; Avetisyan, Y; Bibikova, O; Tuchina, E; Khlebtsov, B; Khlebtsov, N; Tuchin, V	International Journal Of Molecular Sciences	2016	17	10.3390/ijms17081295	11	3.226	**6.775**
31	Antimicrobial activity of menthol modified nanodiamond particles	V. Turcheniuk, V. Raks, R. Issa, R. Cooper, P. J. Cragg, **R. Jijie**, N. Dumitrascu, Mikhalovska, A. Barras, V. Zaitsev, R. Boukherroub, S. Szunerits	Diamond & Related Materials	2015	57	7	12	**32.00**	**236.468**
31.1	Novel nanodiamond coatings for durable xenogenic heart valve prostheses: Mechanical properties and in vivo stability	Chernysheva, MG; Chaschin, IS; Badun, GA; Vasil'ev, VG; Mikheev, IV; Shen, TY; Sinolits, MA; Bakuleva, NP	Colloids And Surfaces A-Physicochemical And Engineering Aspects	2023	656	10.1016/j.colsurfa.2022.130373	12	5.518	**10.030**
31.2	Recent advances in carbon-based	Cui, FC; Li, TT; Wang, DF;	Journal Of Hazardous	2022	431	10.1016/j.jha	12	14.224	**24.540**

	nanomaterials for combating bacterial biofilm-associated infections	Yi, SM; Li, JR; Li, XP	Materials			zmat.2022.128597			
31.3	Enhanced Antibacterial Activity of Dermaseptin through Its Immobilization on Alginate Nanoparticles-Effects of Menthol and Lactic Acid on Its Potentialization	Hazime, N; Belguesmia, Y; Barras, A; Amiche, M; Boukherroub, R; Drider, D	Antibiotics-Basel	2022	11	10.3390/antibiotics11060787	12	5.222	**9.537**
31.4	Antimicrobial potential of natural deep eutectic solvents	Al-Akayleh, F; Khalid, RM; Hawash, D; Al-Kaissi, E; Al-Adham, ISI; Al-Muhtaseb, N; Jaber, N; Al-Remawi, M; Collier, PJ	Letters In Applied Microbiology	2022	75	10.1111/lam.13699	12	2.813	**5.522**
31.5	Enzymatic glycosylation of menthol: optimization of synthesis and extraction processes using response surface methodology and biological evaluation of synthesized product	Nisar, S; Hanif, MA; Zahid, M; Ghaffar, A	Chemical Papers	2022	76	10.1007/s11696-022-02061-y	12	2.146	**4.410**
31.6	Polymer-based Nanotherapeutics for Burn Wounds	Ujjwal, RR; Yadav, A; Tripathi, S; Krishna, STVS	Current Pharmaceutical Biotechnology	2022	23	10.2174/1389201022666210927103755	12	2.829	**5.548**
31.7	A scalable approach to topographically mediated antimicrobial surfaces based on diamond	Paxton, WF; Rozsa, JL; Brooks, MM; Running, MP; Schultz, DJ; Jasinski, JB; Jung, HJ; Akram, MZ	Journal Of Nanobiotechnology	2021	19	10.1186/s12951-021-01218-3	12	9.429	**16.548**
31.8	Nanodiamond-decorated thin film composite membranes with antifouling and antibacterial properties	Karami, P; Aktij, SA; Khorshidi, B; Firouzjaei, MD; Asad, A; Elliott, M; Rahimpour, A; Soares, JBP; Sadrzadeh, M	Desalination	2022	522	10.1016/j.desal.2021.115436	12	11.211	**19.518**
31.9	Menthol modified zinc(II) phthalocyanine regioisomers and their photoinduced antimicrobial activity against Staphylococcus aureus	Szymczak, J; Sobotta, L; Dlugaszewska, J; Kryjewski, M; Mielcarek, J	Dyes And Pigments	2021	193	10.1016/j.dyepig.2021.109410	12	5.122	**9.370**
31.10.	The effects of methylcellulose coating containing carvacrol or	Jahdkaran, E; Hosseini, SE; Nafchi, AM; Nouri, L	Food Science & Nutrition	2021	9	10.1002/fsn3.2240	12	3.553	**6.755**

	menthol on the physicochemical, mechanical, and antimicrobial activity of polyethylene films								
31.11	Tailoring Scaffolds for Orthopedic Application With Anti-Microbial Properties: Current Scenario and Future Prospects	Preethi, A; Bellare, JR	Frontiers In Materials	2021	7	10.3389/fmats.2020.594686	12	3.985	**7.475**
31.12	Development of durable and superhydrophobic nanodiamond coating on aluminum surfaces for improved hygiene of food contact surfaces	Liu, SH; Ulugun, B; DeFlorio, W; Arcot, Y; Yegin, Y; Salazar, KS; Castillo, A; Taylor, TM; Cisneros-Zevallos, L; Akbulut, M	Journal Of Food Engineering	2021	298	10.1016/j.jfoodeng.2021.110487	12	1.832	**3.887**
31.13	Antimicrobial Activity of Nanomaterials	Rajak, BL; Kumar, R; Gogoi, M; Patra, S	Nanoscience In Medicine Vol. 1	2020	39	10.1007/978-3-030-29207-2_5	12	0	**0.000**
31.14	The effects of pristine and silanized nanodiamond on the performance of polysulfone membranes for wastewater treatment by MBR system	Tizchang, A; Jafarzadeh, Y; Yegani, R; Khakpour, S	Journal Of Environmental Chemical Engineering	2019	7	10.1016/j.jece.2019.103447	12	4.3	**8.000**
31.15	Toward Designing Sweet Ionic Liquids Containing a Natural Terpene Moiety as Effective Wood Preservatives	Feder-Kubis, J; Zabielska-Matejuk, J; Stangierska, A; Przybylski, P; Jacquemin, J; Geppert-Rybczynska, M	Acs Sustainable Chemistry & Engineering	2019	7	10.1021/acsuschemeng.9b03645	12	7.632	**13.553**
31.16	Engineering the Interface: Nanodiamond Coating on 3D-Printed Titanium Promotes Mammalian Cell Growth and Inhibits Staphylococcus aureus Colonization	Rifai, A; Tran, N; Reineck, P; Elbourne, A; Mayes, E; Sarker, A; Dekiwadia, C; Ivanova, EP; Crawford, RJ; Ohshima, T; Gibson, BC; Greentree, AD; Pirogova, E; Fox, K	Acs Applied Materials & Interfaces	2019	11	10.1021/acsami.9b07064	12	8.758	**15.430**
31.17	Applications of Nanodiamonds in the Detection and Therapy of Infectious Diseases	Sangiao, ET; Holban, AM; Gestal, MC	Materials	2019	12	10.3390/ma12101639	12	3.057	**5.928**
31.18	Enhanced antibacterial activity of carbon dots functionalized with ampicillin combined with visible light triggered photodynamic effects	Jijie, R; Barras, A; Bouckaert, J; Dumitrascu, N; Szunerits, S; Boukherroub, R	Colloids And Surfaces B-Biointerfaces	2018	170	10.1016/j.colsurfb.2018.06.040	12	3.973	**0.000**
31.19	Gold Nanoparticle and	Anirudhan, TS; Nair, SS	Bioconjugate Chemistry	2018	29	10.1021/acs.	12	4.349	**8.082**

	Hydrophobic Nanodiamond Based Synergistic System: A Way to Overcome Skin Barrier Function					bioconjchem.8b00417			
31.20.	Fluorescent nanodiamond-bacteriophage conjugates maintain host specificity	Trinh, JT; Alkahtani, MH; Rampersaud, I; Rampersaud, A; Scully, M; Young, RF; Hemmer, P; Zeng, LY	Biotechnology And Bioengineering	2018	115	10.1002/bit.26573	12	4.26	**7.933**
31.21	Nanobiostructure of fibrous-like alumina functionalized with an analog of the BP100 peptide: Synthesis, characterization and biological applications	Torres, LMFC; Braga, NA; Gomes, IP; Almeida, MT; Santos, TL; de Mesquita, JP; da Silva, LM; Martins, HR; Kato, KC; dos Santos, WTP; Resende, JM; Pereira, MC; Bemquerer, MP; Rodrigues, MA; Verly, RM	Colloids And Surfaces B-Biointerfaces	2018	163	10.1016/j.colsurfb.2018.01.001	12	3.973	**7.455**
31.22	Menthol-loaded PLGA Micro and Nanospheres: Synthesis, Characterization and Degradation in Artificial Saliva	Holz, JP; Bottene, MK; Jahno, VD; Einloft, S; Ligabue, R	Materials Research-Ibero-American Journal Of Materials	2018	21	10.1590/1980-5373-MR-2017-0488	12	1.104	**2.673**
31.23	Biomedical applications of nanodiamond	Turcheniuk, K; Mochalin, VN	Nanotechnology	2017	28	10.1088/1361-6528/aa6ae4	12	3.404	**6.507**
31.24	Formulation of Menthol-Loaded Nanostructured Lipid Carriers to Enhance Its Antimicrobial Activity for Food Preservation	Piran, P; Kafil, HS; Ghanbarzadeh, S; Safdari, R; Hamishehkar, H	Advanced Pharmaceutical Bulletin	2017	7	10.15171/apb.2017.031	12	0	**0.000**
31.25	Preparation and performance evaluation of cellulose acetate/nanodiamond nanocomposite membrane in the treatment of pharmaceutical wastewater by membrane bioreactor	Etemadi, H; Yegani, R; Seyfollahi, M; Babaeipour, V	Desalination And Water Treatment	2017	76	10.5004/dwt.2017.20653	12	1.383	**3.138**
31.26	Synthesis and in Vitro Antibacterial Evaluation of Novel 4-Substituted 1-Menthyl-1,2,3-triazoles	Khaligh, P; Salehi, P; Bararjanian, M; Aliahmadi, A; Khavasi, HR; Nejad-Ebrahimi, S	Chemical & Pharmaceutical Bulletin	2016	64	10.1248/cpb.c16-00463	12	1.133	**2.722**
31.27	A 980 nm driven photothermal ablation of virulent and antibiotic resistant Gram-positive and Gram-	Maaoui, H; Jijie, R; Pan, GH; Drider, D; Caly, D; Bouckaert, J; Dumitrascu, N; Chtourou,	Journal Of Colloid And Interface Science	2016	480	10.1016/j.jcis.2016.07.002	12	4.233	**0.000**

	negative bacteria strains using Prussian blue nanoparticles	R; Szunerits, S; Boukherroub, R							
31.28	Carbon Nanomaterials as Antibacterial Colloids	Maas, M	Materials	2016	9	10.3390/ma9080617	12	2.654	**5.257**
31.29	Antibacterial Applications of Nanodiamonds	Szunerits, S; Barras, A; Boukherroub, R	International Journal Of Environmental Research And Public Health	2016	13	10.3390/ijerph13040413	12	2.101	**4.335**
31.30.	Comprehensive evaluation of carboxylated nanodiamond as a topical drug delivery system	Lim, DG; Kim, KH; Kang, E; Lim, SH; Ricci, J; Sung, SK; Kwon, MT; Jeong, SH	International Journal Of Nanomedicine	2016	11	10.2147/IJN.S104859	12	4.3	**8.000**
31.31	Nanodiamonds coupled with 5,7-dimethoxycoumarin, a plant bioactive metabolite, interfere with the mitotic process in B16F10 cells altering the actin organization	Gismondi, A; Nanni, V; Reina, G; Orlanducci, S; Terranova, ML; Canini, A	International Journal Of Nanomedicine	2016	11	10.2147/IJN.S96614	12	4.3	**8.000**
31.32	Unprecedented inhibition of glycosidase-catalyzed substrate hydrolysis by nanodiamond-grafted Oglycosides	Siriwardena, A; Khanal, M; Barras, A; Bande, O; Mena-Barragan, T; Mellet, CO; Fernandez, JMG; Boukherroub, R; Szunerits, S	Rsc Advances	2015	5	10.1039/c5ra21390h	12	3.289	**6.315**
32	Effects of air transient spark discharge and helium plasma jet on water, bacteria, cells and biomolecules	K. Hensel, K. Kučerová, B. Tarabová, M. Janda, Z. Machala, K. Sano, C. T. Mihai, M. Ciorpac, L. D. Gorgan, **R. Jijie**, V. Pohoata and I. Topala	Biointerphases	2015	10	10.1116/1.4919559	12	2.105	**339.568**
32.1	Generation of neutral pH high-strength plasma-activated water from a pin to water discharge and its bactericidal activity on multidrug-resistant pathogens	Punith, N; Singh, AK; Ananthanarasimhan, J; Boopathy, B; Chatterjee, R; Hemanth, M; Chakravortty, D; Rao, L	Plasma Processes And Polymers	2022		10.1002/ppap.202200133	12	3.877	**7.295**
32.2	A comparison of power measurement techniques and electrical characterization of an atmospheric pressure plasma jet	Jovanovic, O; Puac, N; Skoro, N	Plasma Science & Technology	2022	24	10.1088/2058-6272/ac742b	12	1.842	**3.903**
32.3	The optimization of plasma activated water (PAW) generation and the inactivation mechanism of PAW on Escherichia coli	Han, QY; He, ZY; Zhong, CS; Wen, X; Ni, YY	Journal Of Food Processing And Preservation	2022		10.1111/jfpp.17120	12	2.609	**5.182**
32.4	Perspectives and Advances of	Trimukhe, AM; Pandiyaraj,	IEEE Transactions On	2022	50	10.1109/TPS	12	1.368	**3.113**

	Nonthermal Plasma Technology in Cancers	KN; Patekar, M; Miller, V; Deshmukh, RR	Plasma Science			.2022.3182717			
32.5	Non-thermal argon plasma jets of various lengths for selective reactive oxygen and nitrogen species production	Lamichhane, P; Acharya, TR; Kaushik, N; Nguyen, LN; Lim, JS; Hessel, V; Kaushik, NK; Ha Choi, E	Journal Of Environmental Chemical Engineering	2022	10	10.1016/j.jece.2022.107782	12	7.968	**14.113**
32.6	Effect of plasma activated water on the nutritional composition, storage quality and microbial safety of beef	Astorga, JB; Hadinoto, K; Cullen, P; Prescott, S; Trujillo, FJ	Lwt-Food Science And Technology	2022	154	10.1016/j.lwt.2021.112794	12	6.056	**10.927**
32.7	Inactivation of Escherichia coli using atmospheric pressure cold plasma jet with thin quartz tubes	Fan, ZQ; Zhong, JY; Li, ZW; Zheng, YC; Wang, ZZ; Bai, SP	Journal Of Physics D-Applied Physics	2021	54	10.1088/1361-6463/ac1d6f	12	3.409	**6.515**
32.8	High hydrogen peroxide concentration-low exposure time of plasma-activated water (PAW): A novel approach for shelf-life extension of Asian sea bass (Lates calcarifer) steak	Chaijan, M; Chaijan, S; Panya, A; Nisoa, M; Cheong, LZ; Panpipat, W	Innovative Food Science & Emerging Technologies	2021	74	10.1016/j.ifset.2021.102861	12	7.104	**12.673**
32.9	Cold Atmospheric Plasma Cancer Treatment, a Critical Review	Yan, DY; Malyavko, A; Wang, QH; Lin, L; Sherman, JH; Keidar, M	Applied Sciences-Basel	2021	11	10.3390/app11167757	12	2.838	**5.563**
32.10.	Electromechanical coupling mechanisms at a plasma-liquid interface	Dickenson, A; Walsh, JL; Hasan, MI	Journal Of Applied Physics	2021	129	10.1063/5.0045088	12	1.491	**3.318**
32.11	Evolution of Electrical and Optical Parameters of a Helium Plasma Jet in Interaction With Liquids	Gerber, IC; Mihaila, I; Pohoata, V; Topala, I	IEEE Transactions On Plasma Science	2021	49	10.1109/TPS.2020.3008967	12	1.368	**3.113**
32.12	Impact of Short Time Atmospheric Plasma Treatment on Onion Seeds	Terebun, P; Kwiatkowski, M; Starek, A; Reuter, S; Mok, YS; Pawlat, J	Plasma Chemistry And Plasma Processing	2021	41	10.1007/s11090-020-10146-3	12	3.337	**6.395**
32.13	Measurement of electron density in transient spark discharge by simple interferometry	Lim, JS; Hong, YJ; Ghimire, B; Choi, J; Mumtaz, S; Choi, EH	Results In Physics	2021	20	10.1016/j.rinp.2020.103693	12	4.565	**8.442**
32.14	Possibility of Humid Municipal Wastes Hygienisation Using Gliding Arc Plasma Reactor	Pawlat, J; Terebun, P; Kwiatkowski, M; Wolny-Koladka, K	Water	2021	13	10.3390/w13020194	12	3.53	**6.717**
32.15	Physical Crop Postharvest Storage and Protection Methods	Kopacki, M; Pawlat, J; Skwarylo-Bednarz, B; Jamiolkowska, A; Stepniak, PM; Kiczorowski, P; Golan, K	Agronomy-Basel	2021	11	10.3390/agronomy11010093	12	3.949	**7.415**

32.16	Observation of the development of pulsed discharge inside a bubble under water using ICCD cameras	Takahashi, K; Takayama, H; Kobayashi, S; Takeda, M; Nagata, Y; Karashima, K; Takaki, K; Namihira, T	Vacuum	2020	182	10.1016/j.vacuum.2020.109690	12	3.627	**6.878**
32.17	The effect of water activated by nonthermal air plasma on the growth of farm plants: Case of maize and barley	Yemeli, GBN; Svubova, R; Kostolani, D; Kyzek, S; Machala, Z	Plasma Processes And Polymers	2021	18	10.1002/ppap.202000205	12	3.877	**7.295**
32.18	Influence of Plasma-Activated Water on Physical and Physical-Chemical Soil Properties	Simeckova, J; Krcma, F; Klofac, D; Dostal, L; Kozakova, Z	Water	2020	12	10.3390/w12092357	12	3.103	**6.005**
32.19	Transient Spark Discharge Generated in Various N-2/O-2 Gas Mixtures: Reactive Species in the Gas and Water and Their Antibacterial Effects	Kucerova, K; Machala, Z; Hensel, K	Plasma Chemistry And Plasma Processing	2020	40	10.1007/s11090-020-10082-2	12	3.148	**6.080**
32.20.	GSH Modification as a Marker for Plasma Source and Biological Response Comparison to Plasma Treatment	Ranieri, P; Mohamed, H; Myers, B; Dobossy, L; Beyries, K; Trosan, D; Krebs, FC; Miller, V; Stapelmann, K	Applied Sciences-Basel	2020	10	10.3390/app10062025	12	2.679	**5.298**
32.21	Prevention of damage caused by corona discharge-generated reactive oxygen species under electrostatic aerosol-to-hydrosol sampling	Piri, A; Kim, HR; Hwang, J	Journal Of Hazardous Materials	2020	384	10.1016/j.jhazmat.2019.121477	12	10.588	**18.480**
32.22	Plant Disease Control by Non-Thermal Atmospheric-Pressure Plasma	Adhikari, B; Pangomm, K; Veerana, M; Mitra, S; Park, G	Frontiers In Plant Science	2020	11	10.3389/fpls.2020.00077	12	5.753	**10.422**
32.23	Plasma-Activated Water Treatment of Fresh Beef: Bacterial Inactivation and Effects on Quality Attributes	Zhao, Y; Chen, RC; Tian, EQ; Liu, DP; Niu, JH; Wang, WC; Qi, ZH; Xia, Y; Song, Y; Zhao, ZG	IEEE Transactions On Radiation And Plasma Medical Sciences	2020	4	10.1109/TRPMS.2018.2883789	12	0	**0.000**
32.24	DC-driven atmospheric pressure pulsed discharge with volume-distributed filaments in a coaxial electrode system	Balek, R; Klenivskyi, M	Journal Of Applied Physics	2019	126	10.1063/1.5113950	12	1.376	**3.127**
32.25	Important parameters in plasma jets for the production of RONS in liquids for plasma medicine: A brief review	Khlyustova, A; Labay, C; Machala, Z; Ginebra, MP; Canal, C	Frontiers Of Chemical Science And Engineering	2019	13	10.1007/s11705-019-1801-8	12	3.552	**6.753**
32.26	Surface modification of stratum	Kristof, J; Aoshima, T; Blajan,	Plasma Science &	2019	21	10.1088/205	12	1.358	**3.097**

	corneum for drug delivery and skin care by microplasma discharge treatment	M; Shimizu, K	Technology			8-6272/aafde6			
32.27	Fluorescence measurements of peroxynitrite/peroxynitrous acid in cold air plasma treated aqueous solutions	Tarabova, B; Lukes, P; Hammer, MU; Jablonowski, H; von Woedtke, T; Reuter, S; Machala, Z	Physical Chemistry Chemical Physics	2019	21	10.1039/c9cp00871c	12	3.43	**6.550**
32.28	Acidification is an Essential Process of Cold Atmospheric Plasma and Promotes the Anti-Cancer Effect on Malignant Melanoma Cells	Schneider, C; Gebhardt, L; Arndt, S; Karrer, S; Zimmermann, JL; Fischer, MJM; Bosserhoff, AK	Cancers	2019	11	10.3390/cancers11050671	12	6.126	**11.043**
32.29	Decomposition and oxidation of methionine and tryptophan following irradiation with a nonequilibrium plasma jet and applications for killing cancer cells	Uchida, G; Mino, Y; Suzuki, T; Ikeda, J; Suzuki, T; Takenaka, K; Setsuhara, Y	Scientific Reports	2019	9	10.1038/s41598-019-42959-4	12	3.998	**7.497**
32.30.	Effects of plasma activated water on wheat: Germination, growth parameters, photosynthetic pigments, soluble protein content, and antioxidant enzymes activity	Kucerova, K; Henselova, M; Slovakova, L; Hensel, K	Plasma Processes And Polymers	2019	16	10.1002/ppap.201800131	12	3.065	**5.942**
32.31	Chemical and antibacterial effects of plasma activated water: correlation with gaseous and aqueous reactive oxygen and nitrogen species, plasma sources and air flow conditions	Machala, Z; Tarabova, B; Sersenova, D; Janda, M; Hensel, K	Journal Of Physics D-Applied Physics	2019	52	10.1088/1361-6463/aae807	12	3.169	**6.115**
32.32	Efficacy of underwater AC diaphragm discharge in generation of reactive species in aqueous solutions	Khlyustova, A; Sirotkin, N; Evdokimova, O; Prysiazhnyi, V; Titov, V	Journal Of Electrostatics	2018	96	10.1016/j.elstat.2018.10.002	12	1.688	**3.647**
32.33	Microwave micro torch generated in argon based mixtures for biomedical applications	Krcma, F; Tsonev, I; Smejkalova, K; Truchla, D; Kozakova, Z; Zhekova, M; Marinova, P; Bogdanov, T; Benova, E	Journal Of Physics D-Applied Physics	2018	51	10.1088/1361-6463/aad82b	12	2.829	**5.548**
32.34	Effect of a plasma-activated medium produced by direct irradiation on cancer cell killing	Uchida, G; Ito, T; Ikeda, J; Suzuki, T; Takenaka, K; Setsuhara, Y	Japanese Journal Of Applied Physics	2018	57	10.7567/JJAP.57.096201	12	1.471	**3.285**

32.35	Kinetic plasma chemistry model of pulsed transient spark discharge in air coupled with nanosecond time-resolved imaging and spectroscopy	Janda, M; Hensel, K; Machala, Z	Journal Of Physics D-Applied Physics	2018	51	10.1088/1361-6463/aad2b3	12	2.829	**5.548**
32.36	The kINPen-a review on physics and chemistry of the atmospheric pressure plasma jet and its applications	Reuter, S; von Woedtke, T; Weltmann, KD	Journal Of Physics D-Applied Physics	2018	51	10.1088/1361-6463/aab3ad	12	2.829	**5.548**
32.37	Specificity of detection methods of nitrites and ozone in aqueous solutions activated by air plasma	Tarabova, B; Lukes, P; Janda, M; Hensel, K; Sikurova, L; Machala, Z	Plasma Processes And Polymers	2018	15	10.1002/ppap.201800030	12	3.173	**6.122**
32.38	Characterization of novel pin-hole based plasma source for generation of discharge in liquids supplied by DC non-pulsing voltage	Krcma, F; Kozakova, Z; Mazankova, V; Horak, J; Dostal, L; Obradovic, B; Nikiforov, A; Belmonte, T	Plasma Sources Science & Technology	2018	27	10.1088/1361-6595/aac521	12	4.128	**7.713**
32.39	Effects of atmospheric pressure plasma jet operating with DBD on Lavatera thuringiaca L. seeds' germination	Pawlat, J; Starek, A; Sujak, A; Terebun, P; Kwiatkowski, M; Budzen, M; Andrejko, D	Plos One	2018	13	10.1371/journal.pone.0194349	12	2.776	**5.460**
32.40.	Low-temperature Plasma Promotes Fibroblast Proliferation in Wound Healing by ROS-activated NF-kappa B Signaling Pathway	Shi, XM; Xu, GM; Zhang, GJ; Liu, JR; Wu, YM; Gao, LG; Yang, Y; Chang, ZS; Yao, CW	Current Medical Science	2018	38	10.1007/s11596-018-1853-x	12	0	**0.000**
32.41	Effects of atmospheric pressure plasma generated in GlidArc reactor on Lavatera thuringiaca L. seeds' germination	Pawlat, J; Starek, A; Sujak, A; Kwiatkowski, M; Terebun, P; Budzen, M	Plasma Processes And Polymers	2018	15	10.1002/ppap.201700064	12	3.173	**6.122**
32.42	Selective production of reactive oxygen and nitrogen species in the plasma-treated water by using a nonthermal high-frequency plasma jet	Uchida, G; Takenaka, K; Takeda, K; Ishikawa, K; Hori, M; Setsuhara, Y	Japanese Journal Of Applied Physics	2018	57	10.7567/JJAP.57.0102B4	12	1.471	**3.285**
32.43	Wettability of Polymeric Materials after Dielectric Barrier Discharge Atmospheric-pressure Plasma Jet Treatment	Kwiatkowski, M; Terebun, P; Mazurek, P; Pawlat, J	Sensors And Materials	2018	30	10.18494/SAM.2018.1890	12	0.468	**1.613**
32.44	Synthesis of Al-doped ZnO nanoparticles by laser ablation of ZnO:Al2O3 target in water	Krstulovic, N; Umek, P; Salamon, K; Capan, I	Materials Research Express	2017	4	10.1088/2053-1591/aa896d	12	1.151	**2.752**
32.45	Time Behaviour of Helium	Gerber, IC; Mihaila, I; Hein,	Applied Sciences-Basel	2017	7	10.3390/app	12	1.689	**0.000**

	Atmospheric Pressure Plasma Jet Electrical and Optical Parameters	D; Nastuta, AV; Jijie, R; Pohoata, V; Topala, I				7080812			
32.46	Development of a non-equilibrium 60 MHz plasma jet with a long discharge plume	Uchida, G; Kawabata, K; Ito, T; Takenaka, K; Setsuhara, Y	Journal Of Applied Physics	2017	122	10.1063/1.4993715	12	2.176	**4.460**
32.47	Oxidative modification and electrochemical inactivation of Escherichia coli upon cold atmospheric pressure plasma exposure	Dezest, M; Bulteau, AL; Quinton, D; Chavatte, L; Le Bechec, M; Cambus, JP; Arbault, S; Negre-Salvayre, A; Clement, F; Cousty, S	Plos One	2017	12	10.1371/journal.pone.0173618	12	2.766	**5.443**
32.48	DC-driven plasma gun: self-oscillatory operation mode of atmospheric-pressure helium plasma jet comprised of repetitive streamer breakdowns	Wang, XX; Shashurin, A	Plasma Sources Science & Technology	2017	26	10.1088/1361-6595/aa52fc	12	3.939	**7.398**
32.49	Mechanistic insights into the impact of Cold Atmospheric Pressure Plasma on human epithelial cell lines	Dezest, M; Chavatte, L; Bourdens, M; Quinton, D; Camus, M; Garrigues, L; Descargues, P; Arbault, S; Burlet-Schiltz, O; Casteilla, L; Clement, F; Planat, V; Bulteau, AL	Scientific Reports	2017	7	10.1038/srep41163	12	4.122	**7.703**
32.5	Biological effects of bacterial pigment undecylprodigiosin on human blood cells treated with atmospheric gas plasma in vitro	Lazovic, S; Leskovac, A; Petrovic, S; Senerovic, L; Krivokapic, N; Mitrovic, T; Bozovic, N; Vasic, V; Nikodinovic-Runic, J	Experimental And Toxicologic Pathology	2017	69	10.1016/j.etp.2016.11.003	12	2.023	**4.205**
32.51	Efficacy of Ozone Fumigation to Control Eupteryx Decemnotata in Rosemary Growing Under Cover	Kopacki, M; Starek, A; Kiczorowski, P; Pawlat, J; Diatczyk, J	Conference	2017			12	0	**0.000**
32.52	Candida Albicans Inactivation with DBD He/O-2 Plasma Jet	Pawlat, J; Kwiatkowski, M; Terebun, P; Chudzik, B; Gagos, M	Conference	2017			12	0	**0.000**
32.53	Effects of Helium-Air Rf Plasma Jet on Onion Seedling Growth	Pawlat, J; Terebun, P; Kwiatkowski, M; Kiczorowski, P; Starek, A; Andrejko, D; Kopacki, M	Conference	2017			12	0	**0.000**
32.54	Potential DBD-jet applications for preservation of nutritive compounds on the example of	Bozkurt, D; Kwiatkowski, M; Terebun, P; Diatczyk, J; Pawlat, J	Environmental Engineering V	2017			12	0	**0.000**

	vitamin C in water solutions								
32.55	Control of reactive oxygen and nitrogen species production in liquid by nonthermal plasma jet with controlled surrounding gas	Ito, T; Uchida, G; Nakajima, A; Takenaka, K; Setsuhara, Y	Japanese Journal Of Applied Physics	2017	56	10.7567/JJAP.56.01AC06	12	1.452	**3.253**
32.56	Effects of nonthermal plasma jet irradiation on the selective production of H2O2 and NO2- in liquid water	Uchida, G; Nakajima, A; Ito, T; Takenaka, K; Kawasaki, T; Koga, K; Shiratani, M; Setsuhara, Y	Journal Of Applied Physics	2016	120	10.1063/1.4968568	12	2.068	**4.280**
32.57	Microplasma Induced Cell Morphological Changes and Apoptosis of Ex Vivo Cultured Human Anterior Lens Epithelial Cells - Relevance to Capsular Opacification	Recek, N; Andjelic, S; Hojnik, N; Filipic, G; Lazovic, S; Vesel, A; Primc, G; Mozetic, M; Hawlina, M; Petrovski, G; Cvelbar, U	Plos One	2016	11	10.1371/journal.pone.0165883	12	2.806	**5.510**
32.58	RF atmospheric plasma jet surface treatment of paper	Pawlat, J; Terebun, P; Kwiatkowski, M; Diatczyk, J	Journal Of Physics D-Applied Physics	2016	49	10.1088/0022-3727/49/37/374001	12	2.588	**5.147**
32.59	INVESTIGATION ON CRYPTOSPORIDIUM INFECTIONS IN WILD ANIMALS IN A ZOO IN ANHUI PROVINCE	Gu, YF; Wang, XL; Zhou, CF; Li, PY; Xu, QM; Zhao, CC; Liu, W; Xu, WL	Journal Of Zoo And Wildlife Medicine	2016	47		12	0.59	**1.817**
32.60.	Generation of Antimicrobial NOx by Atmospheric Air Transient Spark Discharge	Janda, M; Martisovits, V; Hensel, K; Machala, Z	Plasma Chemistry And Plasma Processing	2016	36	10.1007/s11090-016-9694-5	12	2.355	**4.758**
32.61	Effect of Cold Plasma on Cell Viability and Collagen Synthesis in Cultured Murine Fibroblasts	Shi, XM; Cai, JF; Xu, GM; Ren, HB; Chen, SL; Chang, ZS; Liu, JR; Huang, CY; Zhang, GJ; Wu, XL	Plasma Science & Technology	2016	18	10.1088/1009-0630/18/4/04	12	0.83	**2.217**
32.62	CHANGE OF SURFACE CONTACT ANGLE OF POLYMERIC MATERIALS EXPOSED ON PLASMA GENERATED IN DBD PLASMA JET REACTOR	Kwiatkowski, M; Terebun, P; Diatczyk, J; Pawlat, J	Conference	2016			12	0	**0.000**
32.63	IDENTIFICATION OF THE REACTIVE SPECIES PRODUCED BY TRANSIENT	Kucerova, K; Janda, M; Hensel, K	Conference	2016			12	0	**0.000**

	SPARK DISCHARGE IN GAS AND LIQUID PHASE AND ITS EFFECT ON ESCHERICHIA COLI								
32.64	PLASMA PROCESSING OF DRY AND WET CELLULOSE-BASED MATERIALS	Pawlat, J; Terebun, P; Kwiatkowski, M; Cvelbar, U; Modic, M; Puliyalil, H	Conference	2016			12	0	**0.000**
32.65	Formation of reactive nitrogen species including peroxynitrite in physiological buffer exposed to cold atmospheric plasma	Girard, F; Badets, V; Blanc, S; Gazeli, K; Marlin, L; Authier, L; Svarnas, P; Sojic, N; Clement, F; Arbault, S	Rsc Advances	2016	6	10.1039/c6ra12791f	12	3.108	**6.013**
32.66	Atmospheric pressure argon surface discharges propagated in long tubes: physical characterization and application to bio-decontamination	Kovalova, Z; Leroy, M; Jacobs, C; Kirkpatrick, MJ; Machala, Z; Lopes, F; Laux, CO; DuBow, MS; Odic, E	Journal Of Physics D-Applied Physics	2015	48	10.1088/0022-3727/48/46/464003	12	2.772	**5.453**
33	Effects of Atmospheric Pressure Plasma Jet on Pepsin Structure and Function	**R. Jijie**, C. Luca, V. Pohoata and I. Topala	IEEE Transactions On Plasma Science	2012	40	10.1109/TPS.2012.2217509	4	0.868	**48.525**
33.1	Effects of Low Temperature Plasmas on Proteins	Laroussi, M	IEEE Transactions On Radiation And Plasma Medical Sciences	2018	2	10.1109/TRPMS.2018.2796308	4	0	0.000
33.2	In-situ monitoring of etching of bovine serum albumin using low-temperature atmospheric plasma jet	Kousal, J; Shelemin, A; Kylian, O; Slavinska, D; Biederman, H	Applied Surface Science	2017	392	10.1016/j.apsusc.2016.09.135	4	4.439	24.695
33.3	Practical and theoretical considerations on the use of ICCD imaging for the characterization of non-equilibrium plasmas	Gherardi, M; Puac, N; Maric, D; Stancampiano, A; Malovic, G; Colombo, V; Petrovic, ZL	Plasma Sources Science & Technology	2015	24	10.1088/0963-0252/24/6/064004	4	2.808	16.540
33.4	Characterization of a Cold Atmospheric Pressure Plasma Jet Device Driven by Nanosecond Voltage Pulses	Boselli, M; Colombo, V; Gherardi, M; Laurita, R; Liguori, A; Sanibondi, P; Simoncelli, E; Stancampiano, A	IEEE Transactions On Plasma Science	2015	43	10.1109/TPS.2014.2381854	4	0.958	7.290
34	Thermal behavior of bovine serum albumin after exposure to barrier discharge helium plasma jet	**R. Jijie**, V. Pohoata and I. Topala	Applied Physics Letters	2012	101	10.1063/1.4757130,	3	3.794	**177.940**
34.1	Investigation of mode interconversion for interfacial pattern formation through plasma-surface interaction	Liu, ZJ; Xu, H; Zhou, CX; Wang, W; Liu, DX; Kong, MG	Plasma Processes And Polymers	2019	16	10.1002/ppap.201900108	3	3.065	**23.767**

34.2	Electrical and optical properties of a gradient microplasma for microfluidic chips	Bryant, PM; Wettstein, P; Al-Bataineh, SA; Short, RD; Bradley, JW; Low, SP; Parkinson, LA; Szili, EJ	Plasma Processes And Polymers	2017	14	10.1002/ppap.201600194	3	2.7	**21.333**
34.3	Investigation on the energy spectrums of electrons in atmospheric pressure argon plasma jets and their dependences on the applied voltage	Chen, XX; Tan, ZY; Liu, YD; Li, XT; Pan, J; Wang, XL	Physics Of Plasmas	2017	24	10.1063/1.4986145	3	1.941	**16.273**
34.4	Two modes of interfacial pattern formation by atmospheric pressure helium plasma jet-ITO interactions under positive and negative polarity	Liu, ZJ; Liu, DX; Xu, DH; Cai, HF; Xia, WJ; Wang, BC; Li, QS; Kong, MG	Journal Of Physics D-Applied Physics	2017	50	10.1088/1361-6463/aa6915	3	2.373	**19.153**
34.5	Non-equilibrium steady-state kinetics of He-air atmospheric pressure plasmas	Petrova, TB; Petrov, GM; Boris, DR; Walton, SG	Physics Of Plasmas	2017	24	10.1063/1.4973434	3	1.941	**16.273**
34.6	Numerical study of the interaction of a helium atmospheric pressure plasma jet with a dielectric material	Wang, LJ; Zheng, YS; Jia, SL	Physics Of Plasmas	2016	23	10.1063/1.4964482	3	2.115	**17.433**
34.7	A dielectric barrier discharge terminally inactivates RNase A by oxidizing sulfur-containing amino acids and breaking structural disulfide bonds	Lackmann, JW; Baldus, S; Steinborn, E; Edengeiser, E; Kogelheide, F; Langklotz, S; Schneider, S; Leichert, LIO; Benedikt, J; Awakowicz, P; Bandow, JE	Journal Of Physics D-Applied Physics	2015	48	10.1088/0022-3727/48/49/494003	3	2.772	**21.813**
34.8	Effects of air transient spark discharge and helium plasma jet on water, bacteria, cells, and biomolecules	Hensel, K; Kucerova, K; Tarabova, B; Janda, M; Machala, Z; Sano, K; Mihai, CT; Ciorpac, M; Gorgan, LD; Jijie, R; Pohoata, V; Topala, I	Biointerphases	2015	10	10.1116/1.4919559	3	0	**0.000**
34.9	Capillary plasma jet: A low volume plasma source for life science applications	Topala, I; Nagatsu, M	Applied Physics Letters	2015	106	10.1063/1.4907349	3	3.142	**24.280**
34.10.	Two-dimensional modeling of the cathode sheath formation during the streamer-cathode interaction	Yan, W; Liu, FC; Sang, CF; Wang, DZ	Physics Of Plasmas	2014	21	10.1063/1.4861613	3	2.142	**17.613**
35	Advancements on the molecular design of nanoantibiotics: current level of development and future challenges	**R. Jijie**, A. Barras, F. Teodorescu, R. Boukherroub and S. Szunerits	Molecular Systems Design & Engineering	2017	2	10.1039/c7me00048k	5	-709.220	**685.844**

35.1	Promising advances in nanobiotic-based formulations for drug specific targeting against multidrug-resistant microbes and biofilm-associated infections	Elfadil, D; Elkhatib, WF; El-Sayyad, GS	Microbial Pathogenesis	2022	170	10.1016/j.micpath.2022.105721	5	3.848	**17.392**
35.2	Nanoantibiotics Based in Mesoporous Silica Nanoparticles: New Formulations for Bacterial Infection Treatment	Alvarez, E; Gonzalez, B; Lozano, D; Doadrio, AL; Colilla, M; Izquierdo-Barba, I	Pharmaceutics	2021	13	10.3390/pharmaceutics13122033	5	6.525	**28.100**
35.3	Nanotechnology as a Novel Approach in Combating Microbes Providing an Alternative to Antibiotics	Mubeen, B; Ansar, AN; Rasool, R; Ullah, I; Imam, SS; Alshehri, S; Ghoneim, MM; Alzarea, SI; Nadeem, MS; Kazmi, I	Antibiotics-Basel	2021	10	10.3390/antibiotics10121473	5	5.222	**22.888**
35.4	Antimicrobial Resistance and Inorganic Nanoparticles	Balderrama-Gonzalez, AS; Pinon-Castillo, HA; Ramirez-Valdespino, CA; Landeros-Martinez, LL; Orrantia-Borunda, E; Esparza-Ponce, HE	International Journal Of Molecular Sciences	2021	22	10.3390/ijms222312890	5	6.208	**26.832**
35.5	Optical clearing of tissues: Issues of antimicrobial phototherapy and drug delivery	Tuchin, VV; Genina, EA; Tuchina, ES; Svetlakova, AV; Svenskaya, YI	Advanced Drug Delivery Reviews	2022	180	10.1016/j.addr.2021.114037	5	17.873	**73.492**
35.6	Bioinspired drug delivery strategies for repurposing conventional antibiotics against intracellular infections	Subramaniam, S; Joyce, P; Thomas, N; Prestidge, CA	Advanced Drug Delivery Reviews	2021	177	10.1016/j.addr.2021.113948	5	17.873	**73.492**
35.7	Advancements in release-active antimicrobial biomaterials: A journey from release to relief	Bhattacharjee, B; Ghosh, S; Patra, D; Haldar, J	Wiley Interdisciplinary Reviews-Nanomedicine And Nanobiotechnology	2022	14	10.1002/wnan.1745	5	9.423	**39.692**
35.8	Nanomaterial-based biosensors for agro-product safety	Zhang, C; Jiang, CM; Lan, LY; Ping, JF; Ye, ZZ; Ying, YB	Trac-Trends In Analytical Chemistry	2021	143	10.1016/j.trac.2021.116369	5	14.908	**61.632**
35.9	The screening of the safety profile of polymeric based amoxicillin nanoparticles in various test systems	Guncum, E; Bakirel, T; Anlas, C; Isiklan, N; Alkan, FU; Charehsaz, M; Aydin, A	Toxicology Letters	2021	348	10.1016/j.toxlet.2021.05.001	5	4.271	**19.084**
35.10.	Nanoantibiotics: Functions and Properties at the Nanoscale to Combat Antibiotic Resistance	Mamun, MM; Sorinolu, AJ; Munir, M; Vejerano, EP	Frontiers In Chemistry	2021	9	10.3389/fchem.2021.687660	5	5.545	**24.180**

35.11	Outer Membrane Protein-Coated Nanoparticles as Antibacterial Vaccine Candidates	Anwar, M; Muhammad, F; Akhtar, B; Anwar, MI; Raza, A; Aleem, A	International Journal Of Peptide Research And Therapeutics	2021	27	10.1007/s10989-021-10201-3	5	2.191	**10.764**
35.12	Low-dimensional nanomaterials for antibacterial applications	Hu, XL; Shang, Y; Yan, KC; Sedgwick, AC; Gan, HQ; Chen, GR; He, XP; James, TD; Chen, DJ	Journal Of Materials Chemistry B	2021	9	10.1039/d1tb00033k	5	7.571	**32.284**
35.13	A New Nano-Platform of Erythromycin Combined with Ag Nano-Particle ZnO Nano-Structure against Methicillin-Resistant Staphylococcus aureus	Naskar, A; Lee, S; Lee, Y; Kim, S; Kim, KS	Pharmaceutics	2020	12	10.3390/pharmaceutics12090841	5	6.321	**27.284**
35.14	Magnetic MnFe2O4 Core-shell nanoparticles coated with antibiotics for the ablation of pathogens	Akhlaghi, N; Najafpour-Darzi, G; Barras, A; Mohammadi, M; Boukherroub, R; Szunerits, S	Chemical Papers	2021	75	10.1007/s11696-020-01306-y	5	2.146	**10.584**
35.15	Triclosan-based supramolecular hydrogels as nanoantibiotics for enhanced antibacterial activity	Yang, LJ; Zhang, CR; Huang, F; Liu, JJ; Zhang, YM; Yang, CH; Ren, CH; Chu, LP; Liu, B; Liu, JF	Journal Of Controlled Release	2020	324	10.1016/j.jconrel.2020.05.034	5	9.776	**41.104**
35.16	Pharmacokinetics of Free Oxytetracycline and Oxytetracycline Loaded Cockle Shell Calcium Carbonate-Based Nanoparticle inBALB/cMice	Idris, SB; Kadir, AA; Abdullah, JFF; Ramanoon, SZ; Basit, MA; Abubakar, MZZA	Frontiers In Veterinary Science	2020	7	10.3389/fvets.2020.00270	5	3.412	**15.648**
35.17	Alternative strategies for the application of aminoglycoside antibiotics against the biofilm-forming human pathogenic bacteria	Khan, F; Pham, DTN; Kim, YM	Applied Microbiology And Biotechnology	2020	104	10.1007/s00253-020-10360-1	5	4.813	**21.252**
35.18	Nanoparticles for treatment of bovine Staphylococcus aureus mastitis	Algharib, SA; Dawood, A; Xie, SY	Drug Delivery	2020	27	10.1080/10717544.2020.1724209	5	6.419	**27.676**
35.19	pH-Responsive Lipid-Dendrimer Hybrid Nanoparticles: An Approach To Target and Eliminate Intracellular Pathogens	Maji, R; Omolo, CA; Agrawal, N; Maduray, K; Hassan, D; Mokhtar, C; Mackhraj, I; Govender, T	Molecular Pharmaceutics	2019	16	10.1021/acs.molpharmaceut.9b00713	5	4.321	**19.284**
35.2	Gold nanoparticles in chemo-, immuno-, and combined therapy: review [Invited]	Dykman, LA; Khlebtsov, NG	Biomedical Optics Express	2019	10	10.1364/BOE.10.003152	5	3.921	**17.684**
35.21	Efficient capture and photothermal	Budimir, M; Jijie, R; Ye, R;	Journal Of Materials	2019	7	10.1039/c8tb	5	5.344	**0.000**

	ablation of planktonic bacteria and biofilms using reduced graphene oxide-polyethyleneimine flexible nanoheaters	Barras, A; Melinte, S; Silhanek, A; Markovic, Z; Szunerits, S; Boukherroub, R	Chemistry B			01676c			
35.22	Ni-Ti Layered Double Hydroxide@Graphitic Carbon Nitride Nanosheet: A Novel Nanocomposite with High and Ultrafast Sonophotocatalytic Performance for Degradation of Antibiotics	Abazari, R; Mahjoub, AR; Sanati, S; Rezvani, Z; Hou, ZQ; Dai, HX	Inorganic Chemistry	2019	58	10.1021/acs.inorgchem.8b02575	5	4.825	**21.300**
35.23	Enhanced antibacterial activity of carbon dots functionalized with ampicillin combined with visible light triggered photodynamic effects	Jijie, R; Barras, A; Bouckaert, J; Dumitrascu, N; Szunerits, S; Boukherroub, R	Colloids And Surfaces B-Biointerfaces	2018	170	10.1016/j.colsurfb.2018.06.040	5	0	**0.000**
35.24	Stimulus-responsive zinc oxide-functionalized macromolecular humic acid nanocarrier for enhancement of antibacterial activity of ciprofloxacin hydrochloride	Murugesan, G; Latha, N; Suganya, K; Murugan, M; Munusamy, MA; Rajan, M	International Journal Of Biological Macromolecules	2018	114	10.1016/j.ijbiomac.2018.03.120	5	4.784	**21.136**
35.25	In Vitro Evaluation of Antimicrobial Activity and Cytotoxicity of Different Nanobiotics Targeting Multidrug Resistant and Biofilm Forming Staphylococci	Mohamed, MA; Nasr, M; Elkhatib, WF; Eltayeb, WN	Biomed Research International	2018	2018	10.1155/2018/7658238	5	2.197	**10.788**
35.26	Microneedles-Based Transdermal Drug Delivery Systems: A Review	Hao, Y; Li, W; Zhou, XL; Yang, F; Qian, ZY	Journal Of Biomedical Nanotechnology	2017	13	10.1166/jbn.2017.2474	5	5.068	**22.272**
36	Nucleic aptamer modified porous reduced graphene oxide/ MoS2 based electrodes for viral detection: Application to human papillomavirus	F. Chekin, K. Bagga, P. Subramanian, **R. Jijie**, S. Kurungot, R. Boukherroub, S. Szunerits	Sensors And Actuators B: Chemical	2018	262	10.1016/j.snb.2018.02.065	7	6.393	**1161.469**
36.1	Aptamer-based biosensors for virus protein detection	Lou, BB; Liu, YF; Shi, ML; Chen, J; Li, K; Tan, YF; Chen, LW; Wu, YW; Wang, T; Liu, XQ; Jiang, T; Peng,	Trac-Trends In Analytical Chemistry	2022	157	10.1016/j.trac.2022.116738	7	14.908	**44.023**

		DM; Liu, ZB							
36.2	Dual-enzyme cascade amplification electrochemical biosensor for human papillomavirus based on DNA nanoflower structure	He, HZ; Cheng, LJ; He, YH; Chen, JM; Song, L; Yang, YY; Zhang, Y; Lin, ZY; Hong, GL	Sensors And Actuators B-Chemical	2022	371	10.1016/j.snb.2022.132532	7	9.221	**27.774**
36.3	Two-dimensional transition metal carbides and nitrides (MXenes) based biosensing and molecular imaging	Liu, HY; Xing, XT; Tan, Y; Dong, HF	Nanophotonics	2022		10.1515/nanoph-2022-0550	7	7.923	**24.066**
36.4	2D Van der Waals Heterostructures for Chemical Sensing	Hou, HL; Anichini, C; Samori, P; Criado, A; Prato, M	Advanced Functional Materials	2022		10.1002/adfm.202207065	7	19.924	**58.354**
36.5	Optical Biosensor Based on Graphene and Its Derivatives for Detecting Biomolecules	Ji, GM; Tian, JK; Xing, F; Feng, Y	International Journal Of Molecular Sciences	2022	23	10.3390/ijms231810838	7	6.208	**19.166**
36.6	APTES-Modified Remote Self-Assembled DNA-Based Electrochemical Biosensor for Human Papillomavirus DNA Detection	Yang, YX; Qing, Y; Hao, XD; Fang, CX; Ouyang, P; Li, HY; Wang, ZC; Liao, YZ; Fang, HB; Du, J	Biosensors-Basel	2022	12	10.3390/bios12070449	7	5.743	**17.837**
36.7	Nanomaterials for virus sensing and tracking	Pirzada, M; Altintas, Z	Chemical Society Reviews	2022	51	10.1039/d1cs01150b	7	60.615	**174.614**
36.8	Electrochemical Aptasensor Based on Porous Reduced Graphene Oxide and Au@Fe3O4 Shell-Core Structure for Detection of Thiamethoxam in Green Leafy Vegetables	Kong, QQ; Zhang, M; Yue, FL; Huang, JC; Yang, FZ; Gao, XL; Xiang, YD; Li, JS; Sun, X; Guo, YM; Zhu, YL	Journal Of The Electrochemical Society	2022	169	10.1149/1945-7111/ac7007	7	4.386	**13.960**
36.9	ZnO-ZnFe2O4/Fe3O4/Carbon Nanocomposites for Ultrasensitive and Selective Dopamine Detection	Appiah-Ntiamoah, R; Baye, AF; Kim, H	Acs Applied Nano Materials	2022	5	10.1021/acsanm.1c04222	7	6.14	**18.971**
36.10.	Graphene-Based Nanomaterials for Dental Applications: Principles, Current Advances, and Future Outlook	Li, XJ; Liang, X; Wang, YH; Wang, DS; Teng, MH; Xu, H; Zhao, BD; Han, L	Frontiers In Bioengineering And Biotechnology	2022	10	10.3389/fbioe.2022.804201	7	6.064	**18.754**
36.11	Novel Biorecognition Elements against Pathogens in the Design of State-of-the-Art Diagnostics	Sande, MG; Rodrigues, JL; Ferreira, D; Silva, CJ; Rodrigues, LR	Biosensors-Basel	2021	11	10.3390/bios11110418	7	5.743	**17.837**
36.12	Investigation into MoTe2 Based Dielectric Modulated AMFET	De, A; Kanrar, SS; Sarkar, SK	Silicon	2022	14	10.1007/s12633-021-	7	2.941	**9.831**

	Biosensor for Label-Free Detection of DNA Including Electric Variational Effects					01423-7			
36.13	Electrochemical bioassay coupled to LAMP reaction for determination of high-risk HPV infection in crude lysates	Izadi, N; Sebuyoya, R; Moranova, L; Hrstka, R; Anton, M; Bartosik, M	Analytica Chimica Acta	2021	1187	10.1016/j.aca.2021.339145	7	6.911	**21.174**
36.14	Detection of Microorganisms Using Graphene-Based Nanobiosensors	Pourmadadi, M; Yazdian, F; Hojjati, S; Khosravi-Darani, K	Food Technology And Biotechnology	2021	59	10.17113/ftb.59.04.21.7223	7	2.33	**8.086**
36.15	Electronic and electrochemical viral detection for point-of-care use: A systematic review	Monteill, S; Casson, AJ; Jones, ST	Plos One	2021	16	10.1371/journal.pone.0258002	7	3.752	**12.149**
36.16	COVID-19 challenges: From SARS-CoV-2 infection to effective point-of-care diagnosis by electrochemical biosensing platforms	Campos-Ferreira, D; Visani, V; Cordula, C; Nascimento, GA; Montenegro, LML; Schindler, HC; Cavalcanti, IMF	Biochemical Engineering Journal	2021	176	10.1016/j.bej.2021.108200	7	4.446	**14.131**
36.17	Flower-like Nitrogen-co-doped MoS2@RGO Composites with Excellent Stability for Supercapacitors	Li, M; Addad, A; Zhang, Y; Barras, A; Roussel, P; Amin, MA; Szunerits, S; Boukherroub, R	Chemelectrochem	2021	8	10.1002/celc.202100401	7	4.782	**15.091**
36.18	D-shaped surface plasmon resonance biosensor based on MoS2 in terahertz band	Liu, S; Ma, R; Li, YW; Zhao, LW; Xia, YQ; Dong, XL; Pang, YJ	Optical Fiber Technology	2021	66	10.1016/j.yofte.2021.102631	7	2.8	**9.429**
36.19	Aptamers against viruses: Selection strategies and bioanalytical applications	Sanchez-Bascones, E; Parra, F; Lobo-Castanon, MJ	Trac-Trends In Analytical Chemistry	2021	143	10.1016/j.trac.2021.116349	7	14.908	**44.023**
36.20.	Recent Progress in Electrochemical Detection of Human Papillomavirus (HPV) via Graphene-Based Nanosensors	Mousavi, SM; Behbudi, G; Hashemi, SA; Babapoor, A; Chiang, WH; Ramakrishna, S; Rahman, MM; Lai, CW; Gholami, A; Omidifar, N; Yousefi, K	Journal Of Sensors	2021	2021	10.1155/2021/6673483	7	2.336	**8.103**
36.21	Reduced graphene oxide nanocomposite based electrochemical biosensors for monitoring foodborne pathogenic bacteria: A review	Yu, HT; Guo, W; Lu, X; Xu, H; Yang, Q; Tan, JX; Zhang, W	Food Control	2021	127	10.1016/j.foodcont.2021.108117	7	6.652	**20.434**
36.22	Electrochemical diagnostics of	Goud, KY; Reddy, KK;	Biosensors &	2021	180	10.1016/j.bi	7	12.545	**37.271**

	infectious viral diseases: Trends and challenges	Khorshed, A; Kumar, VS; Mishra, RK; Oraby, M; Ibrahim, AH; Kim, H; Gobi, KV	Bioelectronics			os.2021.113112			
36.23	Split-type electrochemiluminescent gene assay platform based on gold nanocluster probe for human papillomavirus diagnosis	Hong, GL; Zou, ZY; Huang, ZN; Deng, HH; Chen, W; Peng, HP	Biosensors & Bioelectronics	2021	178	10.1016/j.bios.2021.113044	7	12.545	**37.271**
36.24	Flexible sensor based on conducting polymer and gold nanoparticles for electrochemical screening of HPV families in cervical specimens	Avelino, KYPS; Oliveira, LS; Lucena-Silva, N; Andrade, CAS; Oliveira, MDL	Talanta	2021	226	10.1016/j.talanta.2021.122118	7	6.556	**20.160**
36.25	Highly Reproducible and Sensitive Electrochemiluminescence Biosensors for HPV Detection Based on Bovine Serum Albumin Carrier Platforms and Hyperbranched Rolling Circle Amplification	He, YH; Liu, YH; Cheng, LJ; Yang, YY; Qiu, B; Guo, LH; Wang, Y; Lin, ZY; Hong, GL	Acs Applied Materials & Interfaces	2021	13	10.1021/acsami.0c20742	7	10.383	**31.094**
36.26	Recent advances in graphene-based nanobiosensors for salivary biomarker detection	Goldoni, R; Farronato, M; Connelly, ST; Tartaglia, GM; Yeo, WH	Biosensors & Bioelectronics	2021	171	10.1016/j.bios.2020.112723	7	12.545	**37.271**
36.27	Nanomaterials against pathogenic viruses: greener and sustainable approaches	Soufi, GJ; Iravani, S	Inorganic And Nano-Metal Chemistry	2020	51	10.1080/24701556.2020.1852252	7	1.716	**6.331**
36.28	Graphene biosensors for bacterial and viral pathogens	Jiang, ZX; Feng, B; Xu, J; Qing, TP; Zhang, P; Qing, ZH	Biosensors & Bioelectronics	2020	166	10.1016/j.bios.2020.112471	7	10.618	**31.766**
36.29	Human virus detection with graphene-based materials	Vermisoglou, E; Panacek, D; Jayaramulu, K; Pykal, M; Frebort, I; Kolar, M; Hajduch, M; Zboril, R; Otyepka, M	Biosensors & Bioelectronics	2020	166	10.1016/j.bios.2020.112436	7	10.618	**31.766**
36.30.	Label-free homogeneous electrochemical biosensor for HPV DNA based on entropy-driven target recycling and hyperbranched rolling circle amplification	He, YH; Cheng, LJ; Yang, YY; Chen, P; Qiu, B; Guo, LH; Wang, Y; Lin, ZY; Hong, GL	Sensors And Actuators B-Chemical	2020	320	10.1016/j.snb.2020.128407	7	7.46	**22.743**
36.31	Combating Actions of Green 2D-Materials on Gram Positive and	Singh, M; Zannella, C; Folliero, V; Di Girolamo, R;	Frontiers In Bioengineering And	2020	8	10.3389/fbioe.2020.5699	7	5.89	**18.257**

	Negative Bacteria and Enveloped Viruses	Bajardi, F; Chianese, A; Altucci, L; Damasco, A; Del Sorbo, MR; Imperatore, C; Rossi, M; Valadan, M; Varra, M; Vergara, A; Franci, G; Galdiero, M; Altucci, C	Biotechnology			67			
36.32	Reduced graphene oxide-based field effect transistors for the detection of E7 protein of human papillomavirus in saliva	Aspermair, P; Mishyn, V; Bintinger, J; Happy, H; Bagga, K; Subramanian, P; Knoll, W; Boukherroub, R; Szunerits, S	Analytical And Bioanalytical Chemistry	2021	413	10.1007/s00216-020-02879-z	7	4.478	**14.223**
36.33	Laser induced self-N-doped porous graphene as an electrochemical biosensor for femtomolar miRNA detection	Wan, ZF; Umer, M; Lobino, M; Thiel, D; Nguyen, NT; Trinchi, A; Shiddiky, MJA; Gao, YS; Li, Q	Carbon	2020	163	10.1016/j.carbon.2020.03.043	7	9.594	**28.840**
36.34	Magneto-Optical Nanostructures for Viral Sensing	Szunerits, S; Saada, TN; Meziane, D; Boukherroub, R	Nanomaterials	2020	10	10.3390/nano10071271	7	5.076	**15.931**
36.35	Flower-like hollow MoS2 microspheres/acrylic resin composites for enhanced oil contaminants removal from water	Bu, XH; Chen, SW; Li, DX; Liu, JH; Hang, ZS; Zhang, ZW; Zhang, L	Separation Science And Technology	2020	55	10.1080/01496395.2019.1588319	7	2.475	**8.500**
36.36	An impedimetric immunosensor for determination of porcine epidemic diarrhea virus based on the nanocomposite consisting of molybdenum disulfide/reduced graphene oxide decorated with gold nanoparticles	Li, XT; Wang, YC; Zhang, XL; Gao, Y; Sun, CM; Ding, YH; Feng, F; Jin, WJ; Yang, GJ	Microchimica Acta	2020	187	10.1007/s00604-020-4166-2	7	5.833	**18.094**
36.37	Electrochemical biosensors based on antibody, nucleic acid and enzyme functionalized graphene for the detection of disease-related biomolecules	Wang, CF; Sun, XY; Su, M; Wang, YP; Lv, YK	Analyst	2020	145	10.1039/c9an02047k	7	4.616	**14.617**
36.38	A porous reduced graphene oxide/chitosan-based nanocarrier as a delivery system of doxorubicin	Hazhir, N; Chekin, F; Raoof, JB; Fathi, S	Rsc Advances	2019	9	10.1039/c9ra04977k	7	3.119	**10.340**
36.39	DNA Biosensor Based on Double-Layer Discharge for the Detection of HPV Type 16	Espinosa, JR; Galvan, M; Quinones, AS; Ayala, JL; Duron, SM	Sensors	2019	19	10.3390/s19183956	7	3.275	**10.786**
36.40.	Fabrication of	Kudr, J; Adam, V; Zitka, O	Molecules	2019	24	10.3390/mol	7	3.267	**10.763**

	Graphene/Molybdenum Disulfide Composites and Their Usage as Actuators for Electrochemical Sensors and Biosensors					ecules24183374			
36.41	Two-Dimensional Materials in Biosensing and Healthcare: From In Vitro Diagnostics to Optogenetics and Beyond	Bolotsky, A; Butler, D; Dong, CY; Gerace, K; Glayin, NR; Muratore, C; Robinson, JA; Ebrahimi, A	Acs Nano	2019	13	10.1021/acsnano.9b03632	7	14.588	**43.109**
36.42	Boronic acid-functionalized molybdenum disulfide quantum dots for the ultrasensitive analysis of dopamine based on synergistic quenching effects from IFE and aggregation	Guo, XR; Huang, JZ; Zeng, Q; Wei, YB; Liu, XY; Wang, LS	Journal Of Materials Chemistry B	2019	7	10.1039/c9tb00019d	7	5.344	**16.697**
36.43	Electrochemical analysis of nucleic acids as potential cancer biomarkers	Bartosik, M; Jirakova, L	Current Opinion In Electrochemistry	2019	14	10.1016/j.coelec.2019.01.002	7	5.579	**17.369**
36.44	Early detection of cervical cancer based on high-risk HPV DNA-based genosensors: A systematic review	Mahmoodi, P; Fani, M; Rezayi, M; Avan, A; Pasdar, Z; Karimi, E; Amiri, IS; Ghayour-Mobarhan, M	Biofactors	2019	45	10.1002/biof.1465	7	4.734	**14.954**
36.45	Recent advances in molybdenum disulfide-based electrode materials for electroanalytical applications	Vilian, ATE; Dinesh, B; Kang, SM; Krishnan, UM; Huh, YS; Han, YK	Microchimica Acta	2019	186	10.1007/s00604-019-3287-y	7	6.232	**19.234**
36.46	Bimetallic cerium/copper organic framework-derived cerium and copper oxides embedded by mesoporous carbon: Label-free aptasensor for ultrasensitive tobramycin detection	Wang, SJ; Li, ZZ; Duan, FH; Hu, B; He, LH; Wang, MH; Zhou, N; Jia, QJ; Zhang, ZH	Analytica Chimica Acta	2019	1047	10.1016/j.aca.2018.09.064	7	5.977	**18.506**
36.47	Electrochemically pretreated carbon electrodes and their electroanalytical applications - A review	Rana, A; Baig, N; Saleh, TA	Journal Of Electroanalytical Chemistry	2019	833	10.1016/j.jelechem.2018.12.019	7	3.807	**12.306**
36.48	Carbon-Based Nanomaterials for the Development of Sensitive Nanosensor Platforms	Nehra, M; Dilbaghi, N; Hassan, AA; Kumar, S	Advances In Nanosensors For Biological And Environmental Analysis	2019		10.1016/B978-0-12-817456-2.00001-2	7	0	**0.000**
36.49	A review on graphene-based nanocomposites for electrochemical	Krishnan, SK; Singh, E; Singh, P; Meyyappan, M;	Rsc Advances	2019	9	10.1039/c8ra09577a	7	3.119	**10.340**

	and fluorescent biosensors	Nalwa, HS							
36.50.	Noncovalently copper-porphyrin functionalized reduced graphene oxide for sensitive electrochemical detection of dopamine	Huang, DL; Wang, J; Yuan, HQ; Guo, HS; Ying, X; Zhang, H; Liu, HY	Journal Of Porphyrins And Phthalocyanines	2018	22	10.1142/S1088424618500761	7	1.292	**5.120**
36.51	Modelling and Development of Electrical Aptasensors: A Short Review	Cataldo, R; Leuzzi, M; Alfinito, E	Chemosensors	2018	6	10.3390/chemosensors6020020	7	0	**0.000**
37	Reduced graphene oxide/polyethylenimine based immunosensor for the selective and sensitive electrochemical detection of uropathogenic Escherichia coli	**R. Jijie**, K. Kahlouche, A. Barras, N. Yamakawa, J. Bouckaert, T. Gharbi, S. Szunerits, R. Boukherroub	Sensors And Actuators B: Chemical	2018	260	10.1016/j.snb.2017.12.169	8	6.393	**1043.678**
37.1	Microfluidic Devices and Microfluidics-Integrated Electrochemical and Optical (Bio)Sensors for Pollution Analysis: A Review	Alhalaili, B; Popescu, IN; Rusanescu, CO; Vidu, R	Sustainability	2022	14	10.3390/su141912844	8	3.889	**10.973**
37.2	Langmuir-Blodgett based ordered deposition of functionalized iron oxide nanoparticles for ultrasensitive detection of Escherichia coli O157: H7	Pandey, CM; Pandey, MK; Sumana, G	Microchemical Journal	2022	181	10.1016/j.microc.2022.107708	8	5.304	**14.510**
37.3	Electrochemical and computational studies of bio-mimicked Ti3C2Tx MXene-based sensor with multivalent interface	Ranjbar, S; Astani, NA; Atabay, M; Naseri, N; Esfandiar, A; Ejtehadi, MR	Journal Of Colloid And Interface Science	2022	623	10.1016/j.jcis.2022.05.033	8	9.965	**26.163**
37.4	Recent Advancements in Electrochemical Biosensors for Monitoring the Water Quality	Hui, Y; Huang, ZL; Alahi, MEE; Nag, A; Feng, SL; Mukhopadhyay, SC	Biosensors-Basel	2022	12	10.3390/bios12070551	8	5.743	**15.608**
37.5	Nanotechnology-assisted microfluidic systems for chemical sensing, biosensing, and bioanalysis	Fattahi, Z; Hasanzadeh, M	Trac-Trends In Analytical Chemistry	2022	152	10.1016/j.trac.2022.116637	8	14.908	**38.520**
37.6	PEDOT-AuNPs-base d impe dimetric immunosensor for the detection of SARS-CoV-2 antibodies	Lorenzen, AL; dos Santos, AM; dos Santos, LP; Pinto, LD; Conceicao, FR; Wolfart, F	Electrochimica Acta	2022	404	10.1016/j.electacta.2021.139757	8	7.336	**19.590**
37.7	Electrochemical Biosensors for	Mei, YQ; He, C; Zeng, WJ;	Food And Bioprocess	2022	15	10.1007/s11	8	5.581	**15.203**

	Foodborne Pathogens Detection Based on Carbon Nanomaterials: Recent Advances and Challenges	Luo, Y; Liu, CH; Yang, M; Kuang, Y; Lin, XF; Huang, QT	Technology			947-022-02759-7			
37.8	N, O-codoped hierarchical porous graphitic carbon for electrochemical immunosensing of Lactobacillus rhamnosus GG	Gao, YJ; Wang, JM; Du, YT; Wu, CS; Li, HX; Yang, ZQ; Chen, ZY; Yang, ZJ	Microchimica Acta	2022	189	10.1007/s00604-021-05049-9	8	6.408	**17.270**
37.9	Biosensors and Point-of-Care Devices for Bacterial Detection: Rapid Diagnostics Informing Antibiotic Therapy	Gopal, A; Yan, L; Kashif, S; Munshi, T; Roy, VAL; Voelcker, NH; Chen, XF	Advanced Healthcare Materials	2022	11	10.1002/adhm.202101546	8	11.092	**28.980**
37.10.	Voltammetry in Two-Electrode Mode for Rapid Electrochemical Screening Using a Fully Printed and Flexible Multiplexer Sensor	Nagar, B; Silva, WO; Girault, HH	Chemelectrochem	2021	8	10.1002/celc.202100477	8	4.782	**13.205**
37.11	A Clickable Electrodeposited Polymer Films Based on 3-ethynylthiophene for the Covalent Immobilization of Proteins. Application to a Label-free Electrochemical Immunosensor for Escherichia Coli and Staphylococcus Aureus Determination	Svalova, TS; Medvedeva, MV; Kozitsina, AN	Electroanalysis	2021	33	10.1002/elan.202100320	8	3.077	**8.943**
37.12	Recent advances of atomically thin 2D heterostructures in sensing applications	Li, Z; Yao, ZJ; Haidry, AA; Luan, YG; Chen, YL; Zhang, BY; Xu, K; Deng, RX; Hoa, ND; Zhou, JT; Ou, JZ	Nano Today	2021	40	10.1016/j.nantod.2021.101287	8	18.962	**48.655**
37.13	An integrated platform for label-free fluorescence detection and inactivation of bacteria based on boric acid functionalized Zr-MOF	Zuo, WY; Liang, L; Ye, FG; Zhao, SL	Sensors And Actuators B-Chemical	2021	345	10.1016/j.snb.2021.130345	8	9.221	**24.303**
37.14	Advances in electrochemical aptasensors and immunosensors for detection of bacterial pathogens in food	Subjakova, V; Oravczova, V; Tatarko, M; Hianik, T	Electrochimica Acta	2021	389	10.1016/j.electacta.2021.138724	8	7.336	**19.590**
37.15	In Silico and Electrochemical Studies for a ZnO-CuO-Based Immunosensor for Sensitive and Selective Detection of E. coli	Khan, S; Akrema; Qazi, S; Ahmad, R; Raza, K; Rahisuddin	Acs Omega	2021	6	10.1021/acsomega.1c01959	8	4.132	**11.580**

37.16	Electrochemical aptasensor for Escherichia coli O157:H7 bacteria detection using a nanocomposite of reduced graphene oxide, gold nanoparticles and polyvinyl alcohol	Qaanei, M; Taheri, RA; Eskandari, K	Analytical Methods	2021	13	10.1039/d1ay00563d	8	3.532	**10.080**
37.17	Conductive Nanofilms with Oppositely Charged Reduced Graphene Oxides as a Base for Electroactive Coatings and Sensors	Kruk, T; Warszynski, P	Colloids And Interfaces	2021	5	10.3390/colloids5020020	8	0	**0.000**
37.18	A Methylene Blue Assisted Electrochemical Sensor for Determination of Drug Resistance of Escherichia coli	Duan, RS; Fang, XA; Wang, DL	Frontiers In Chemistry	2021	9	10.3389/fchem.2021.689735	8	5.545	**15.113**
37.19	A highly selective and stable cationic polyelectrolyte encapsulated black phosphorene based impedimetric immunosensor for Interleukin-6 biomarker detection	Barman, SC; Sharifuzzaman, M; Abu Zahed, M; Park, C; Yoon, SH; Zhang, S; Kim, H; Yoon, H; Park, JY	Biosensors & Bioelectronics	2021	186	10.1016/j.bios.2021.113287	8	12.545	**32.613**
37.20.	Nanomaterial application in bio/sensors for the detection of infectious diseases	Sheikhzadeh, E; Beni, V; Zourob, M	Talanta	2021	230	10.1016/j.talanta.2020.122026	8	6.556	**17.640**
37.21	A redox-coupled carbon dots-MnO2 nanosheets based sensory platform for label-free and sensitive detection of E. coli	Hiremath, SD; Bhosle, AA; Nayse, A; Biswas, S; Biswas, M; Bhasikuttan, AC; Banerjee, M; Chatterjee, A	Sensors And Actuators B-Chemical	2021	339	10.1016/j.snb.2021.129918	8	9.221	**24.303**
37.22	Reduced graphene oxide nanocomposite based electrochemical biosensors for monitoring foodborne pathogenic bacteria: A review	Yu, HT; Guo, W; Lu, X; Xu, H; Yang, Q; Tan, JX; Zhang, W	Food Control	2021	127	10.1016/j.foodcont.2021.108117	8	6.652	**17.880**
37.23	Emerging graphene-based sensors for the detection of food adulterants and toxicants-A review	Raghavan, VS; O'Driscoll, B; Bloor, JM; Li, B; Katare, P; Sethi, J; Gorthi, SS; Jenkins, D	Food Chemistry	2021	355	10.1016/j.foodchem.2021.129547	8	9.231	**24.328**
37.24	Label-Free Electrochemical Biosensor Based on Au@MoS2-PANI for Escherichia coli Detection	Raj, P; Oh, MH; Han, K; Lee, TY	Chemosensors	2021	9	10.3390/chemosensors9030049	8	4.229	**11.823**
37.25	Sensitive impedimetric detection of	Gupta, A; Sharma, AL; Deep,	Journal Of	2021	9	10.1016/j.jec	8	7.968	**21.170**

	E. coli with metal-organic framework (MIL-53) / polymer (PEDOT) composite modified screen-printed electrodes	A	Environmental Chemical Engineering			e.2020.104925			
37.26	Pathogen detection with electrochemical biosensors: Advantages, challenges and future perspectives	Kaya, HO; Cetin, AE; Azimzadeh, M; Topkaya, SN	Journal Of Electroanalytical Chemistry	2021	882	10.1016/j.jelechem.2021.114989	8	4.598	**12.745**
37.27	Wireless electrochemical and luminescent detection of bacteria based on surface-coated CsWO3-immobilized fluorescent carbon dots with photothermal ablation of bacteria	Robby, AI; Kim, SG; Lee, UH; In, I; Lee, G; Park, SY	Chemical Engineering Journal	2021	403	10.1016/j.cej.2020.126351	8	4.446	**12.365**
37.28	Recent Advances in the Fabrication and Application of Graphene Microfluidic Sensors	Wu, SG; Wang, X; Li, ZW; Zhang, SJ; Xing, F	Micromachines	2020	11	10.3390/mi11121059	8	2.891	**8.478**
37.29	Rapid and sensitive identification of uropathogenic Escherichia coli using a surface-enhanced-Raman-scattering-based biochip	Andrei, CC; Moraillon, A; Lau, S; Felidj, N; Yamakawa, N; Bouckaert, J; Larquet, E; Boukherroub, R; Ozanam, F; Szunerits, S; Gouget-Laemmel, AC	Talanta	2020	219	10.1016/j.talanta.2020.121174	8	6.057	**16.393**
37.3	Graphene biosensors for bacterial and viral pathogens	Jiang, ZX; Feng, B; Xu, J; Qing, TP; Zhang, P; Qing, ZH	Biosensors & Bioelectronics	2020	166	10.1016/j.bios.2020.112471	8	10.618	**27.795**
37.31	Electrochemical Immuno- and Aptamer-Based Assays for Bacteria: Pros and Cons over Traditional Detection Schemes	Jamal, RB; Shipovskov, S; Ferapontova, EE	Sensors	2020	20	10.3390/s20195561	8	3.576	**10.190**
37.32	A Facile Method for the Non-Covalent Amine Functionalization of Carbon-Based Surfaces for Use in Biosensor Development	Walters, F; Ali, MM; Burwell, G; Rozhko, S; Tehrani, Z; Ahmadi, ED; Evans, JE; Abbasi, HY; Bigham, R; Mitchell, JJ; Kazakova, O; Devadoss, A; Guy, OJ	Nanomaterials	2020	10	10.3390/nano10091808	8	5.076	**13.940**
37.33	Label-free Lectin Impedimetric Biosensor Based on a Polyaniline/Graphene Nanocomposite for the Detection of	Yang, HY; Qin, JF; Zhang, M; Shen, HY; Feng, J; Hao, HY	International Journal Of Electrochemical Science	2020	15	10.20964/2020.09.34	8	1.765	**5.663**

	Escherichia coli								
37.34	Sugar-metabolism-triggered pathogenic bacteria identification based on pH-sensitive fluorescent carbon dots	Zhao, MY; Gao, X; Tao, ZH; Wang, XK; Lin, XD; Wang, S; Liu, YQ	Sensors And Actuators B-Chemical	2020	316	10.1016/j.snb.2020.128063	8	7.46	**19.900**
37.35	Recent Advances and Applications of Microfluidic Capillary Electrophoresis: A Comprehensive Review (2017-Mid 2019)	Ragab, MAA; El-Kimary, EI	Critical Reviews In Analytical Chemistry	2021	51	10.1080/10408347.2020.1765729	8	5.686	**15.465**
37.36	Immobilization Techniques for Aptamers on Gold Electrodes for the Electrochemical Detection of Proteins: A Review	Oberhaus, FV; Frense, D; Beckmann, D	Biosensors-Basel	2020	10	10.3390/bios10050045	8	5.519	**15.048**
37.37	Label-Free, Highly Sensitive Electrochemical Aptasensors Using Polymer-Modified Reduced Graphene Oxide for Cardiac Biomarker Detection	Sharma, A; Bhardwa, J; Jang, J	Acs Omega	2020	5	10.1021/acsomega.9b03368	8	3.512	**10.030**
37.38	Electrochemical assays for microbial analysis: how far they are from solving microbiota and microbiome challenges	Ferapontova, EE	Current Opinion In Electrochemistry	2020	19	10.1016/j.coelec.2019.12.005	8	7.271	**19.428**
37.39	CdS quantum dots/Au nanoparticles/ZnO nanowire array for self-powered photoelectrochemical detection of Escherichia coli O157:H7	Dong, XX; Shi, ZL; Xu, CX; Yang, C; Chen, F; Lei, ML; Wang, JJ; Cui, QN	Biosensors & Bioelectronics	2020	149	10.1016/j.bios.2019.111843	8	10.618	**27.795**
37.40.	Assessing microbial water quality: Electroanalytical approaches to the detection of coliforms	Bigham, T; Dooley, JSG; Ternan, NG; Snelling, WJ; Castelan, MCH; Davis, J	Trac-Trends In Analytical Chemistry	2019	121	10.1016/j.trac.2019.115670	8	9.801	**25.753**
37.41	A graphene electrode functionalized with aminoterephthalic acid for impedimetric immunosensing of Escherichia coli	Gupta, A; Bhardwaj, SK; Sharma, AL; Deep, A	Microchimica Acta	2019	186	10.1007/s00604-019-3952-1	8	6.232	**16.830**
37.42	Electrochemical sensors for rapid diagnosis of pathogens in real time	Simoska, O; Stevenson, KJ	Analyst	2019	144	10.1039/c9an01747j	8	3.978	**11.195**
37.43	Two-Dimensional Materials in Biosensing and Healthcare: From In Vitro Diagnostics to Optogenetics	Bolotsky, A; Butler, D; Dong, CY; Gerace, K; Glayin, NR; Muratore, C; Robinson, JA;	Acs Nano	2019	13	10.1021/acsnano.9b03632	8	14.588	**37.720**

	and Beyond	Ebrahimi, A							
37.44	Dopamine-functionalized cyclodextrins: modification of reduced graphene oxide based electrodes and sensing of folic acid in human serum	Chekin, F; Mishyn, V; Barras, A; Lyskawa, J; Ye, R; Melinte, S; Woisel, P; Boukherroub, R; Szunerits, S	Analytical And Bioanalytical Chemistry	2019	411	10.1007/s00216-019-01892-1	8	3.637	**10.343**
37.45	Sensitive assay of Escherichia coli in food samples by microchip capillary electrophoresis based on specific aptamer binding strategy	Zhang, Y; Zhu, LQ; He, PG; Zi, FT; Hu, XZ; Wang, QJ	Talanta	2019	197	10.1016/j.talanta.2019.01.040	8	5.339	**14.598**
37.46	Sensitive determination of nitrite by using an electrode modified with hierarchical three-dimensional tungsten disulfide and reduced graphene oxide aerogel	Ma, X; Gao, F; Liu, GB; Xie, Y; Tu, XL; Li, YZ; Dai, RY; Qu, FL; Wang, WM; Lu, LM	Microchimica Acta	2019	186	10.1007/s00604-019-3379-8	8	6.232	**16.830**
37.47	Click Chemistry on Gold Electrodes Modified with Reduced Graphene Oxide by Electrophoretic Deposition	Mishyn, V; Aspermair, P; Leroux, Y; Happy, H; Knoll, W; Boukherroub, R; Szunerits, S	Surfaces	2019	2	10.3390/surfaces2010015	8	4.568	**12.670**
37.48	Electrical Property of Graphene and Its Application to Electrochemical Biosensing	Lee, JH; Park, SJ; Choi, JW	Nanomaterials	2019	9	10.3390/nano9020297	8	4.324	**12.060**
37.49	Polyethylenimine@Fe3O4@carbon nanotubes nanocomposite as a modifier in glassy carbon electrode for sensitive determination of ciprofloxacin in biological samples	Jalal, NR; Madrakian, T; Afkhami, A; Ghamsari, M	Journal Of Electroanalytical Chemistry	2019	833	10.1016/j.jelechem.2018.12.004	8	3.807	**10.768**
.37.50.	Impedance-Based Detection of Bacteria	Furst, AL; Francis, MB	Chemical Reviews	2019	119	10.1021/acs.chemrev.8b00381	8	52.76	**133.150**
37.51	Functionalized Advanced Hybrid Materials for Biosensing Applications	Hosu, O; Florea, A; Cristea, C; Sandulescu, R	Advanced Biosensors For Health Care Applications	2019		10.1016/B978-0-12-815743-5.00006-8	8	0	**0.000**
37.52	Nano-realm for point-of-care (POC) bacterial diagnostics	Chatterjee, B; Kalyani, N; Das, S; Anand, A; Sharma, TK	Nanotechnology	2019	46	10.1016/bs.mim.2019.04.001	8	0.25	**1.875**
37.53	A review on graphene-based nanocomposites for electrochemical and fluorescent biosensors	Krishnan, SK; Singh, E; Singh, P; Meyyappan, M; Nalwa, HS	Rsc Advances	2019	9	10.1039/c8ra09577a	8	3.119	**9.048**

37.54	Development of an Impedimetric Immunosensor for Specific Detection of Snake Venom	de Faria, RAD; Lins, VDC; Nappi, GU; Matencio, T; Heneine, LGD	Bionanoscience	2018	8	10.1007/s12668-018-0559-7	8	0	**0.000**
37.55	Electrochemical Aptamer-Based Biosensors for the Detection of Cardiac Biomarkers	Grabowska, I; Sharma, N; Vasilescu, A; Iancu, M; Badea, G; Boukherroub, R; Ogale, S; Szunerits, S	Acs Omega	2018	3	10.1021/acsomega.8b01558	8	2.584	**7.710**
37.56	Electrochemical Methodologies for the Detection of Pathogens	Amiri, M; Bezaatpour, A; Jafari, H; Boukherroub, R; Szunerits, S	Acs Sensors	2018	3	10.1021/acssensors.8b00239	8	6.944	**18.610**
37.57	Conductivity Measurement of Defect Induced Multilayer Graphene for Escherichia coli Detection	Morsin, M; Isaak, S; Yusof, Y	2018 Ieee-Embs Conference On Biomedical Engineering And Sciences (Iecbes)	2018			8	0	**1.250**

12. Citări şi recenzii ale lucrărilor ştiinţifice

monografii academice din străinătate: 50 puncte / număr autori, pentru fiecare citare

Nr. Crt.	Titlu articol	Autori	Jurnal	An	pp.	n (numar autori)	numar citari	Punctaj
1	Efficient capture and photothermal ablation of planktonic bacteria and biofilms using reduced graphene oxide-polyethyleneimine flexible nanoheaters	M. Budimir, **R. Jijie**, R. Ye, A. Barras, S. Melinte, A. Silhanek, Z. Markovic, S. Szunerits and R. Boukherroub	Journal of Materials Chemistry B	2019	2771-2781	**9**	**3**	**16.667**
2	Micro-(nano) plastics in freshwater ecosystems: Abundance, toxicological impact and quantification methodology	S. Strungaru1, **R. Jijie1**, M. Nicoara, G. Plavan and C. Faggio	TrAC Trends in Anaytical Chemistry	2019	116-128	**5**	**5**	**50.000**
3	Enhanced antibacterial activity of carbon dots functionalized with ampicillin combined with visible light triggered photodynamic effects	**R. Jijie**, A. Barras, J. Bouckaert, N. Dumitrascu, S. Szunerits and R. Boukherroub	Colloids ad Surfaces B: Biointerfaces	2018	347 - 354	**6**	**5**	**41.667**
4	Sensitive electrochemical detection of cardiac troponin I in serum and saliva by nitrogen-doped porous reduced graphene	F. Chekin, A. Vasilescu, **R. Jijie**, S. Singh, S. Kurungot, M. Iancu, G. Badea, R. Boukherroub, S. Szunerits	Sensors and Actuators B: Chemical	2018	180-187	**9**	**2**	**11.111**

	oxide electrode							
5	Controlled modification of electrochemical microsystems with polyethylenimine/reduced graphene oxide using electrophoretic deposition: Sensing of dopamine levels in meat samples	K. Kahnlouche1, **R. Jijie1**, I Hosu, A. Barras, T. Gharbi, R. Yahiaoui, G. Herlem, M. Ferhat, S. Szunerits, R. Boukherroub	Talanta	2018	432–440	**10**	**1**	**5.000**
6	Nanomaterials for transdermal drug delivery: beyond the state of the art of liposomal structures	**R. Jijie**, A. Barras, R. Boukherroub, S. Szunerits,	Journal of Materials Chemistry B	2017	8653-8675	**4**	**3**	**50.000**
7	On demand electrochemical release of drugs from porous reduced graphene oxide modified flexible electrodes	S. Boulahneche, **R. Jijie**, A. Barras, F. Chekin, S. K. Singh, J. Bouckaert, M. Medjram, S. Kurungot, R. Boukherroub and S. Szunerits	Journal of Materials Chemistry B	2017	6557-6565	**10**	**2**	**10.000**
8	Particle-based photodynamic therapy based on Indocyanine green modified plasmonic nanostructures for inactivation of Crohn's disease-associated Escherichia coli	**R. Jijie**, T. Dumych, L. Chengnang, J. Bouckaert, K. Turcheniuk, C. Hage, L. Heliot, B. Cudennec, N. Dumitrascu, R. Boukherroub and S. Szunerits	Journal of Materials Chemistry B	2016	2598-2605	**11**	**1**	**4.545**
9	Antimicrobial activity of menthol modified nanodiamond particles	V. Turcheniuk, V. Raks, R. Issa, R. Cooper, P. J. Cragg, **R. Jijie,** N. Dumitrascu, Mikhalovska, A. Barras, V. Zaitsev, R. Boukherroub, S. Szunerits	Diamond & Related Materials	2015	7	**12**	**1**	**4.167**
10	Effects of air transient spark discharge and helium plasma jet on water, bacteria, cells and biomolecules	K. Hensel, K. Kučerová, B. Tarabová, M. Janda, Z. Machala, K. Sano, C. T. Mihai, M. Ciorpac, L. D. Gorgan, **R. Jijie**, V. Pohoata and I. Topala	Biointerphases	2015	10	**12**	**1**	**4.167**
11	Advancements on the molecular design of nanoantibiotics: current level of development and future challenges	**R. Jijie**, A. Barras, F. Teodorescu, R. Boukherroub and S. Szunerits	Molecular Systems Design & Engineering	2017	349 - 369	**5**	**2**	**20.000**
12	Nucleic aptamer modified porous reduced graphene oxide/ MoS2 based electrodes for viral detection: Application to human papillomavirus	F. Chekin, K. Bagga, P. Subramanian, **R. Jijie**, S. Kurungot, R. Boukherroub, S. Szunerits	Sensors and Actuators B: Chemical	2018	991-1000	**7**	**3**	**21.429**
13	Reduced graphene oxide/polyethylenimine based	**R. Jijie**, K. Kahlouche, A. Barras, N. Yamakawa, J. Bouckaert, T. Gharbi, S.	Sensors and Actuators B:	2018	255-263	**8**	**5**	**43.750**

	immunosensor for the selective and sensitive electrochemical detection of uropathogenic Escherichia coli	Szunerits, R. Boukherroub	Chemical					
Total								**197.323**

Nr. Crt.	Titlu articol	Autori	Jurnal/Monografie	An	pp.	n (numar autori)	Punctaj
1	Efficient capture and photothermal ablation of planktonic bacteria and biofilms using reduced graphene oxide-polyethyleneimine flexible nanoheaters	M. Budimir**, R. Jijie**, R. Ye, A. Barras, S. Melinte, A. Silhanek, Z. Markovic, S. Szunerits and R. Boukherroub	Journal of Materials Chemistry B	2019	2771-2781	9	**16.667**
1.1	Antibacterial activity of carbon-based nanomaterials	Jovanović, S.	The Encyclopedia of Bacteriology Research Developments	2021	499-530	9	**5.556**
1.2	Antimicrobial activities of nanomaterials in wastewater treatment: A case study of graphene-based nanomaterials	Jovanović, S.	Handbook of Nanomaterials for Wastewater Treatment: Fundamentals and Scale up Issues	2021	1009-1038	9	**5.556**
1.3	Nanoscale materials for the treatment of water contaminated by bacteria and viruses	Budimir, M., Szunerits, S., Markovic, Z., Boukherroub, R.	Nanomaterials for Sustainable Energy and Environmental Remediation	2020	261-305	9	**5.556**
2	Micro-(nano) plastics in freshwater ecosystems: Abundance, toxicological impact and quantification methodology	S. Strungaru1, **R. Jijie1**, M. Nicoara, G. Plavan and C. Faggio	TrAC Trends in Anaytical Chemistry	2019	116-128	5	**50.000**
2.1	Source, Extraction and Identification of Microplastics and their Effects on Earthworms	Babita, Singh, J., Singh, J.	Earthworms and their Ecological Significance	2022	253-284	5	**10.000**
2.2	Understanding the Source, Behaviour, and Fate of Nanoplastics in Aquatic Environments	Sullivan, T., O'Callaghan, I.	Influence of Microplastics on Environmental and Human Health: Key Considerations and Future Perspectives	2022	41-60	5	**10.000**
2.3	Plastic pollution in marine and freshwater environments: Abundance, sources, and mitigation	Mihai, F.-C., Gündoğdu, S., Khan, F.R., Olivelli, A., Markley, L.A., Van Emmerik, T.	Emerging Contaminants in the Environment: Challenges and Sustainable Practices	2022	241-274	5	**10.000**
2.4	Nanoscience and nanotechnology:	Tanori, J., Maldonado, A.	Ethics in Nanotechnology:	2021	191-204	5	**10.000**

	Ethical implications for Latin American scientists		Emerging Technologies Aspects				
2.5	Unsustainable management of plastic wastes in india: A threat to global warming and climate change	Vishwakarma, A.	Contemporary Environmental Issues and Challenges in Era of Climate Change	2019	235-244	5	**10.000**
3	Enhanced antibacterial activity of carbon dots functionalized with ampicillin combined with visible light triggered photodynamic effects	**R. Jijie**, A. Barras, J. Bouckaert, N. Dumitrascu, S. Szunerits and R. Boukherroub	Colloids ad Surfaces B: Biointerfaces	2018	347 - 354	6	**41.667**
3.1	C-Dot Nanoparticulated Devices for Biomedical Applications	Kumar, R., Dhamija, G., Ansari, J.R., Javed, M.N., Alam, M.S.	Nanotechnology: Device Design and Applications	2022	271-300	6	**8.333**
3.2	Applications of nanoscale particles in antimicrobial photodynamic therapy	Anju, V.T., Dyavaiah, M., Siddhardha, B.	Handbook on Nanobiomaterials for Therapeutics and Diagnostic Applications	2021	211-227	6	**8.333**
3.3	Antimicrobial properties of carbon quantum dots	Chatzimitakos, T., Stalikas, C.	Nanotoxicity: Prevention and Antibacterial Applications of Nanomaterials	2020	301-315	6	**8.333**
3.4	Applications of Carbon-Based Nanomaterials for Antimicrobial Photodynamic Therapy	Paramanantham, P., Anju, V.T., Dyavaiah, M., Siddhardha, B.	Nanotechnology in the Life Sciences	2019	237-259	6	**8.333**
3.5	Quantum dots	Maxwell, T., Nogueira Campos, M.G., Smith, S., Doomra, M., Thwin, Z., Santra, S.	Nanoparticles for Biomedical Applications: Fundamental Concepts, Biological Interactions and Clinical Applications	2019	243-265	6	**8.333**
4	Sensitive electrochemical detection of cardiac troponin I in serum and saliva by nitrogen-doped porous reduced graphene oxide electrode	F. Chekin, A. Vasilescu, **R. Jijie**, S. Singh, S. Kurungot, M. Iancu, G. Badea, R. Boukherroub, S. Szunerits	Sensors and Actuators B: Chemical	2018	180-187	9	**11.111**
4.1	Salivary biomarkers in cancer	Eftekhari, A., Maleki Dizaj, S., Sharifi, S., Salatin, S., Khalilov, R., Samiei, M., Zununi Vahed, S., Ahmadian, E.	Advances in Clinical Chemistry	2022	171-192	9	**5.556**
4.2	Advances in point-of-care testing for cardiovascular diseases	Regan, B., O'Kennedy, R., Collins, D.	Advances in Clinical Chemistry	2021	01-70	9	**5.556**
5	Controlled modification of electrochemical microsystems with polyethylenimine/reduced graphene oxide using electrophoretic deposition: Sensing of dopamine	K. Kahnlouche1, R. Jijie1, I Hosu, A. Barras, T. Gharbi, R. Yahiaoui, G. Herlem, M. Ferhat, S. Szunerits, R. Boukherroub	Talanta	2018	432–440	10	**5.000**

	levels in meat samples						
5.1	Graphene-based electrochemical sensors for biomedical applications	Ahammad, A.J.S., Islam, T., Hasan, M.M.	Biomedical Applications of Graphene and 2D Nanomaterials	2019	249-282	10	**5.000**
6	Nanomaterials for transdermal drug delivery: beyond the state of the art of liposomal structures	**R. Jijie,** A. Barras, R. Boukherroub, S. Szunerits,	Journal of Materials Chemistry B	2017	8653-8675	4	**50.000**
6.1	Carbohydrate-derived functionalized nanomaterials for drug delivery and environment remediation	Das, M., Shukla, F., Thakore, S.	Handbook of Functionalized Nanomaterials: Environmental Health and Safety: A Volume in Micro and Nano Technologies	2021	339-364	4	**12.500**
6.2	Applications in cosmetics	Bogdan, C., Moldovan, M.L.	Biopolymeric Nanomaterials: Fundamentals and Applications	2021	387-407	4	**12.500**
6.3	Advances in transdermal delivery of nanomedicine	Kamble, O.S., Sanket, A.S., Samal, S.K., Dubey, S.K., Kesharwani, P., Dandela, R.	Theory and Applications of Nonparenteral Nanomedicines	2020	383-408	4	**12.500**
6.4	Medicated topicals	Amin, P.D., Raimi-Abraham, B.T., Shah, D.S., Gurram, S.	Remington: The Science and Practice of Pharmacy	2020	381-393	4	**12.500**
7	On demand electrochemical release of drugs from porous reduced graphene oxide modified flexible electrodes	S. Boulahneche, **R. Jijie**, A. Barras, F. Chekin, S. K. Singh, J. Bouckaert, M. Medjram, S. Kurungot, R. Boukherroub and S. Szunerits	Journal of Materials Chemistry B	2017	6557-6565	10	**10.000**
7.1	Nanomedicines for Breast Cancer Theranostics	Khan, A., Sahu, N.K.	Remotely stimulated nanomedicine for breast cancer therapy	2020	107-130	10	**5.000**
7.2	Stimuli-responsive graphene-based matrices for smart therapeutics	Szunerits, S., Vasilescu, A., Dinca, V., Peteu, S., Boukherroub, R.	Handbook of Graphene	2019	507-533	10	**5.000**
8	Particle-based photodynamic therapy based on Indocyanine green modified plasmonic nanostructures for inactivation of Crohn's disease-associated Escherichia coli	**R. Jijie**, T. Dumych, L. Chengnang, J. Bouckaert, K. Turcheniuk, C. Hage, L. Heliot, B. Cudennec, N. Dumitrascu, R. Boukherroub and S. Szunerits	Journal of Materials Chemistry B	2016	2598-2605	11	**4.545**
8.1	Metal and metal oxide nanoparticles in photoinactivation of pathogens	Maliszewska, I., Popko, K.	Metal Nanoparticles in Pharma	2017	257-278	11	**4.545**
9	Antimicrobial activity of menthol modified nanodiamond particles	V. Turcheniuk, V. Raks, R. Issa, R. Cooper, P. J. Cragg, **R. Jijie**, N. Dumitrascu, Mikhalovska, A. Barras, V. Zaitsev, R.	Diamond & Related Materials	2015	7	12	**4.167**

		Boukherroub, S. Szunerits					
9.1	Sustainable development information management of carbon nanomaterial-based sensors	Somashekharappa, K.K., Rajendrachari, S.	Carbon Nanomaterials-Based Sensors: Emerging Research Trends in Devices and Applications	2022	44632	12	**4.167**
10	Effects of air transient spark discharge and helium plasma jet on water, bacteria, cells and biomolecules	K. Hensel, K. Kučerová, B. Tarabová, M. Janda, Z. Machala, K. Sano, C. T. Mihai, M. Ciorpac, L. D. Gorgan, **R. Jijie**, V. Pohoata and I. Topala	Biointerphases	2015	10	12	**4.167**
10.1	Potential DBD-jet applications for preservation of nutritive compounds on the example of vitamin C in water solutions	Bozkurt, D., Kwiatkowski, M., Terebun, P., Diatczyk, J., Pawłat, J.	Environmental Engineering V	2018	65-69	12	**4.167**
11	Advancements on the molecular design of nanoantibiotics: current level of development and future challenges	**R. Jijie**, A. Barras, F. Teodorescu, R. Boukherroub and S. Szunerits	Molecular Systems Design & Engineering	2017	349 - 369	5	**20.000**
11.1	Addressing antimicrobial resistance through nanoantibiotics: Challenges and novel strategies	Nagarajan, K., Perumal, S.K., Marimuthu, S.K., Palanisamy, S., Subbiah, L.	Handbook of Research on Nano-Strategies for Combatting Antimicrobial Resistance and Cancer	2021	56-86	5	**10.000**
11.2	Oxidative stress as a determinant of antimicrobial action, resistance, and treatment	Banerjee, S., Nandy, S.K., Chakraborti, S.	Oxidative Stress in Microbial Diseases	2019	111-124	5	**10.000**
12	Nucleic aptamer modified porous reduced graphene oxide/ MoS2 based electrodes for viral detection: Application to human papillomavirus	F. Chekin, K. Bagga, P. Subramanian, **R. Jijie**, S. Kurungot, R. Boukherroub, S. Szunerits	Sensors and Actuators B: Chemical	2018	991-1000	7	**21.429**
12.1	Carbon Nanomaterials for the Development of Biosensors for Microbe Detection and Diagnosis	Tram, N.D.T., Zhu, X., Ee, P.L.R., Pastorin, G.	RSC Nanoscience and Nanotechnology	2021	293-330	7	**7.143**
12.2	Electrochemical virus detections with nanobiosensors	Kaya, S.I., Karadurmus, L., Ozcelikay, G., Bakirhan, N.K., Ozkan, S.A.	Nanosensors for Smart Cities	2020	303-326	7	**7.143**
12.3	Carbon-Based Nanomaterials for the Development of Sensitive Nanosensor Platforms	Nehra, M., Dilbaghi, N., Kumar, S., Hassan, A.A.	Advances in Nanosensors for Biological and Environmental Analysis	2019	44586	7	**7.143**

13	Reduced graphene oxide/polyethylenimine based immunosensor for the selective and sensitive electrochemical detection of uropathogenic Escherichia coli	**R. Jijie**, K. Kahlouche, A. Barras, N. Yamakawa, J. Bouckaert, T. Gharbi, S. Szunerits, R. Boukherroub	Sensors and Actuators B: Chemical	2018	255-263	8	**43.750**
13.1	Role of 2D Materials in Environmental Monitoring	Dhahiya, R., Saha, M., Kumar, A., Sharma, P., Singh, R.S., Rai, V., Behera, K.	Emerging Two Dimensional Materials and Applications	2022	195-216	8	**6.250**
13.2	Thin-film devices for chemical, biological, and diagnostic applications	Zehra, N., Adil, L.R., Tanwar, A.S., Mondal, S., Krishnan Iyer, P.	Chemical Solution Synthesis for Materials Design and Thin Film Device Applications	2021	369-405	8	**6.250**
13.3	Recent Advances in Electrochemical Sensor and Biosensors for Environmental Contaminants	Mei, L.-P., Song, P., Zhu, Y.-C., Ruan, Y.-F., Shi, X.-M., Zhao, W.-W., Xu, J.-J., Chen, H.-Y.	Nanotechnology in the Life Science	2020	31	8	**6.250**
13.4	Applications of graphene-based sensors for biomedical industries	Singh, R., Kumar, S.	Comprehensive Analytical Chemistry	2020	201-233	8	**6.250**
13.5	Graphene structures: From preparations to applications	Alvarado, Y.E.A., de la Cruz, M.T.R., Hernández-Cocoletzi, H., Cocoletzi, G.H.	Handbook of Graphene	2019	323-357	8	**6.250**
13.6	Nano-realm for point-of-care (POC) bacterial diagnostics	Chatterjee, B., Kalyani, N., Das, S., Anand, A., Sharma, T.K.	Methods in Microbiology	2019	19-42	8	**6.250**
13.7	Status and recent developments in analytical methods for the detection of foodborne microorganisms	Ankireddy, S.R., Kim, J.	Recent Developments in Applied Microbiology and Biochemistry	2018	323-334	8	**6.250**

12. Citări şi recenzii ale lucrărilor ştiinţifice
reviste de specialitate din străinătate: (10 + 20 x factor de impact) / număr autori, pentru fiecare citare

Nr. Crt.	Revista	An	N (numar autori)	IF	Punctaj
1	Nanomaterials	2022	5	5.719	**24.876**
2	Pharmaceutics	2022	5	6.525	**28.100**
3	Nanomaterials	2022	8	5.719	**15.548**
4	Pharmaceutics	2022	4	6.525	**35.125**
5	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	2022	10	6.208	**13.416**
6	Pharmaceutics	2022	9	6.525	**15.611**
7	TOXICS	2022	11	4.472	**9.040**
8	Nutrients	2022	2	6.706	**72.060**
9	Nanomaterials	2022	6	5.719	**20.730**
10	BIOLOGY-BASEL	2022	2	5.168	**56.680**
11	MICROORGANISMS	2022	2	4.926	**54.260**
12	International Journal of Environmental Research and Public Health	2022	6	4.614	**17.047**
13	TOXICS	2022	5	4.472	**19.888**
14	Molecules	2022	7	4.927	**15.506**
15	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	2021	7	6.208	**19.166**
16	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	2021	4	6.208	**33.540**
17	Pathogens	2021	6	4.531	**16.770**
18	Polymers	2021	2	4.967	**54.670**
19	Pharmaceutics	2021	6	6.525	**23.417**
20	Applied Sciences	2021	5	2.838	**13.352**
21	Antibiotics-Basel	2020	2	4.639	**51.390**
22	Pharmaceutics	2020	12	5.863	**10.605**
23	Molecules	2020	8	4.412	**12.280**
24	SENSORS	2019	9	3.275	**8.389**
Total:					**641.464**

16. Premii internaţionale obţinute printr-un proces de selecţie
100 puncte / categorie / număr persoane

Nr. Crt.	Premiul	Titlul lucrării	Conferinta	An	Punctaj
1	ICPAM-9 Prize	Application of spectroscopic techniques for studying the effects of non-thermal plasma on biomacromolecules	International Conference on Physics of Advanced Materials (ICPAM-9)	2012	**100**

18. Alte premii naţionale ale instituţiilor culturale 20 puncte / categorie / număr persoane		
		Punctaj
1	Premiul al II – lea pentru lucrarea: „Optical properties study of human skin in the UV-Vis spectral range” prezentată în cadrul sesiunii de postere a celei de a XLI-a Conferinţe Naţionale Fizica şi Tehnologiile Educaţionale Moderne (FTEM), 19 Mai 2012, Iaşi, România.	**10**
2	Premiul III la concursul "Tineri Cercetatori in Stiinta si Inginerie", organizat de Prof. Rada Mihalcea impreuna cu Primaria Cluj-Napoca, editia 2022.	**20**

Data
15/12/2022

Semnătura
CS dr. Strungaru-Jijie Roxana