



ANEXA 2

CRITERII MINIMALE PENTRU FUNCȚIILE DE CERCETARE DIN CADRUL
INSTITUTUL DE CERCETĂRI INTERDISCIPLINARE – FIZICĂ – CERCETĂTOR ȘTIINȚIFIC III (CS III)

$$I \geq 1, P \geq 1, h \geq 2$$

Nr. Crt.	Titlu articol	Autori	Jurnal/DOI	An	Vol	Pag	Prim autor/corespondent	Nr. autori	Nr. efectiv	Nr. citări	AIS	I	P
1	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	O. D. Ilieț, R. Duta, I.M. Balmus, A. Savuca, A. Petrovici, I. B. Nita, L. M. Antoci, R. Jijieț , C. T. Mihai, A. Ciobica, M. Nicoară, R. Popescu, R. Dobrin, C. Solcan, A. Trifan, C. Stanciu, B. Doroftei	Antioxidants / 10.3390/antiox11102040	2022	1	7	1	17	10.67	0.00	0.921	0.09	0.92
2	Assessing Anti-Social and Aggressive Behavior in a Zebrafish (Danio rerio) Model of Parkinson's Disease Chronically Exposed to Rotenone,	O.D. Ilie, R. Duta, R. Jijieț , I.B. Nita, M. Nicoara, C. Faggio, R. Dobrin, I. Mavroudis, A. Ciobica, B. Doroftei	Brain Sciences / 10.3390/brainsci12070898	2022	12	12	1	10	7.50	1.00	0.801	0.11	0.80
3	Efficient Removal of Methylene Blue and Ciprofloxacin from Aqueous Solution Using Flower-like	V. Tiron, M. A. Ciolan, G. Bulai, G. Mihalache, F. D. Lipsa, R. Jijieț	Nanomaterials / 10.3390/nano12132193	2022	12	20	1	6	5.50	0.00	0.738	0.13	0.74



	Nanostructured ZnO Coating under UV Irradiation												
4	Comprehensive Review Regarding Mercury Poisoning and Its Complex Involvement in Alzheimer's Disease	E. Paduraru, D. Iacob, V. Rarinca, A. Rusu, R. Jijie , O. D. Ilie, A. Ciobica, M. Nicoara, B. Doroftei	International Journal of Molecular Sciences / 10.3390/ijms23041992	2022	23	22	0	9	7.00	1.00	1.064	0.15	0.00
5	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/ 10.3390/ijms222312714	2021	22	16	1	8	6.50	9	1.064	0.16	1.06
6	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/ 10.1016/j.etap.2021.103687	2021	87	9	0	9	7.00	14	0.665	0.10	0.00
7	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/ 10.3390/su13168936	2021	13	40	0	9	7.00	1	0.516	0.07	0.00
8	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/ 10.3390/ph14060578	2021	14	26	1	8	6.50	16	0.896	0.14	0.90



9	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	0	9	7.00	8	1.007	0.14	0.00
10	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	0	10	7.50	4	1.202	0.16	0.00
11	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/ 10.1016/j.chemosphere.2020.127316	2020	258	13	0	7	6.00	43	1.023	0.17	0.00
12	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/ 10.3390/antiox9100944	2020	9	17	0	9	7.00	10	0.910	0.13	0.00
13	Preliminary Study on the Tears Oxidative Stress Status and Sleep	M. Balmus, R. O. Cojocariu, A. Ciobica, S. Strungaru, R.	Oxidative Medicine and Cellular Longevity/	2020		9	0	8	6.50	4	1.203	0.19	0.00



	Disturbances in Irritable Bowel Syndrome Patients	Strungaru-Jijie, A. Cantemir, C. Galatanu, L. Gorgan,	10.1155/2020/4690713										
14	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/10.1016/j.scitotenv.2019.134299	2020	698	12	1	5	5.00	37.00	1.304	0.26	1.30
15	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/10.1016/j.bios.2019.111736	2019	146	9	0	8	6.50	4.00	1.469	0.23	0.00
16	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/10.1016/j.electacta.2019.04.083	2019	311	10	0	9	7.00	18.00	0.877	0.13	0.00
17	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/10.1016/j.electacta.2019.01.187	2019	302	9	0	6	5.50	67.00	0.877	0.16	0.00
18	Entrapment of uropathogenic E.coli cells into ultra-thin sol-gel matrices on gold thin films: a low cost alternative for	H. Jafari, M. Amiri, E. Abdi, S. L. Navid, J. Bouckaert, R. Jijie, R. Boukherroub, S. Szunerits	Biosensors and Bioelectronics/10.1016/j.bios.2018.10.029	2019	124	6	0	8	6.50	18.00	1.469	0.23	0.00



	impedimetric bacteria sensing												
19	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/ 10.1039/c8tb01676c	2019	7	10	0	9	7.00	23.00	0.909	0.13	0.00
20	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 Analytical Chemistry/ 10.1016/j.trac.2018.10.025	2019	110	13	1	5	5.00	215.00	1.772	0.35	1.77
21	Reduced Graphene Oxide Embedded Polymeric Nanofiber Mats: An, On-Demand' Photothermally-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/ 10.1021/acsami.8b14784	2018	10	8	0	14	9.50	49.00	1.650	0.17	0.00
22	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 and Surfaces B: Biointerfaces / 10.1016/j.colsurfb.2018.06.040	2018	170	7	1	6	5.50	63.00	0.688	0.13	0.69
23	Solution Processable Cu(II)macrocycle for the Formation of Cu ₂ O Thin Film on ITO and	M. Amiri, M. Fallahi, A. Bezaatpour, R. Jijie , M. Nozari, M. Rouhi, R. Boukherroub, S.	The Journal of Physical Chemistry C / 10.1021/acs.jpcc.8b	2018	122	8	0	8	6.50	20.00	1.017	0.16	0.00



	its Application for Water Oxidation	Szunerits	02808										
24	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/ 10.1016/j.snb.2018.01.215	2018	262	7	0	9	7.00	74.00	0.824	0.12	0.00
25	Nucleic aptamer modified porous reduced graphene oxide/ MoS ₂ 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/ 10.1016/j.snb.2018.02.065	2018	262	10	0	7	6.00	51.00	0.824	0.14	0.00
26	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/ 10.1016/j.snb.2017.12.169	2018	260	9	1	8	6.50	57.00	0.824	0.13	0.82
27	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/ 10.1016/j.electacta.2018.02.038	2018	266	9	0	12	8.50	5.00	0.810	0.10	0.00



	pharmaceutical formulation	Szunerits											
28	Controlled modification of electrochemical microsystems with polyethylenimine/reduced graphene oxide using electrophoretic deposition: Sensing of dopamine levels in meat samples	K. Kahnlouche1, R. Jijie 1, I Hosu, A. Barras, T. Gharbi, R. Yahiaoui, G. Herlem, M. Ferhat, S. Szunerits, R. Boukherroub	Talanta/ 0.1016/j.talanta.2017.09.065	2018	178	9	1	10	7.50	25.00	0.762	0.10	0.76
29	Aqueous Medium-Induced Micropore Formation in Plasma Polymerized Polystyrene: 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 / 10.1039/c7tb02964k	2018	69	10	1	11	8.00	1.00	0.916	0.11	0.92
30	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/ 10.3390/app7080812	2017	7	16	0	7	6.00	12.00	0.338	0.06	0.00
31	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/ 10.1039/c7tb02529g	2017	5	22	1	4	4.00	46.00	0.961	0.24	0.96
32	Selective isolation and eradication of E. coli associated with urinary tract infections using anti-fimbrial modified	F. Halouane1, R. Jijie 1, D. Meziane, C. Li, SK Singh, J Bouckaert, J Jurazek, S Kurungot, A Barras, M. Li, R.	Journal of Materials Chemistry B/ 10.1039/c7tb01890h	2017	5	9	1	12	8.50	15.00	0.961	0.11	0.96



	magnetic reduced graphene oxide nanoheaters	Boukherroub, S. Szunerits											
33	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/ 10.1039/c7tb00687j	2017	5	8	0	10	7.50	10.00	0.961	0.13	0.00
34	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/ 10.1016/j.asr.2016.08.010	2016	58	8	0	6	5.50	2.00	0.450	0.08	0.00
35	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/ 10.1016/j.jcis.2016.07.002	2016	480	6	0	10	7.50	43.00	0.813	0.11	0.00
36	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/ 10.1039/c5tb02697k	2016	4	8	1	11	8.00	15.00	0.943	0.12	0.94
37	Antimicrobial activity of menthol modified	V. Turcheniuk, V. Raks, R. Issa, R. Cooper, P. J.	Diamond & Related Materials/10.1016/j.	2015	57	7	0	12	8.50	32.00	0.482	0.06	0.00



	nanodiamond particles	Cragg, R. Jijie , N. Dumitrascu, Mikhalovska, A. Barras, V. Zaitsev, R. Boukherroub, S. Szunerits	diamond.2014.12.002										
38	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. Ciropac, L. D. Gorgan, R. Jijie , V. Pohoata and I. Topala	Biointerphases/ 10.1116/1.4919559	2015	10	15	0	12	8.50	66.00	0.664	0.08	0.00
39	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/ 10.1109/TPS.2012.2217509	2012	40	5	1	4	4.00	4.00	0.363	0.09	0.36
40	Thermal behavior of bovine serum albumin after exposure to barrier discharge helium plasma jet	R. Jijie , V. Pohoata and I. Topala	Applied Physics Letters/ 10.1063/1.4757130	2012	101	5	1	3	3.00	10.00	1.355	0.45	1.36
	h = 18 (Web of Science)						16			1089		I = 5.89	P= 15.27

Notă

- n, dacă $n \leq 5$; $(n + 5)/2$, dacă $5 < n \leq 15$; $(n + 15)/3$, dacă $15 < n \leq 75$ și $(n + 45)/4$, dacă $n > 75$.



Nr. Crt.	Proiect de cercetare	Perioada	Detalii
1	Proiect Noaptea Europeana a Cercetatorilor Romania	2013	Membru echipa
2	Synthesis of transient complex molecular systems in laboratory plasmas with relevance for molecular astrophysics of hot cores	2014 - 2016	RDI project ID: 349-2014 - 2016, 96/11.12.2013, asistent de cercetare perioada determinată 01/10/2014 - 31/12/2016
3	Procese integrate si sustenabile de depoluare a mediului, reutilizare a apelor uzate și valorificare a deșeurilor	2018-2021	PN-III-P1-1.2-PCCDI-2017-0245, 26PCCDI/2018 (SUSTENVPRO) – Proiecte componente nr. 1, 3 și 5, cercetător științific perioadă determinată 02/10/2018 – .15/02/2021
4	Development, diagnostics and modelling of cold plasma jets at atmospheric pressure for direct treatment of living tissues (Dezvoltarea, diagnoza și modelarea unor jeturi de plasmă rece la presiune atmosferică pentru tratamentul direct al țesuturilor vii)	2012-2014	Cooperare bilaterală România – Cipru, director de proiect dr. Ionuț TOPALĂ (România) și dr. George GEORGHIU (Cipru) (http://www.plasma.uaic.ro/medplasma/)
5	Effects of atmospheric pressure cold discharge plasmas to bacteria and cell cultures (Efectele plasmelor reci generate la presiune atmosferică asupra bacteriilor și culturilor de celule)	2013-2015	Cooperare bilaterală România – Bratislava, director de proiect dr. Ionuț TOPALĂ (România) și dr. K, Perioada: 2013 – 2015 (www.plasma.uaic.ro/ColdPlasCell/)

Data
15/12/2022

Semnătura
CS dr. Strungaru-Jijie Roxana