

Lista de lucrări

1. Articole științifice ISI publicate in extenso în reviste Web of Science (41, 17 articole autor principal/corespondent, 5 review papers, 31 articole în cuartila Q1 și 5 articole în cuartila Q2)

- 1** 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](https://doi.org/10.3390/antiox11102040), WOS: 000872070800001 (IF: 7.675, AIS: 0.921, **Q1**, n= 17)

- 2** 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](https://doi.org/10.3390/nano12132193), WOS: 000824074700001. (IF: 5.719, AIS: 0.738, **Q1**, n= 6)

- 3** 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](https://doi.org/10.3390/brainsci12070898), WOS:000831393600001. (IF: 3.333, AIS:, 0 citări, **Q3**, n= 10)

- 4** 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 Alzheimer's Disease*, **International Journal of Molecular Sciences** (2022) 23(4) 1992, WOS:000762712900001, [10.3390/ijms23041992](https://doi.org/10.3390/ijms23041992). (IF: 6.208, AIS: 1.064, 0 citări, **Q1**, **Review**, n= 9)

- 5** 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](https://doi.org/10.3390/ijms222312714). (IF: 6.208, AIS: 1.064, 9 citări, **Q1**, n= 8)

- 6** 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, [10.1016/j.etap.2021.103687](https://doi.org/10.1016/j.etap.2021.103687). (IF: 5.785, AIS: 0.665, 14 citări, **Q1**, n= 9)

- 7 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](https://doi.org/10.3390/su13168936).
(IF: 3.889, AIS:, 1 citări, **Q2**, n= 9)
- 8 **R. Jijie**✉, G. Mihalache, M. Balmus, S. Strungaru, E. Baltag, A. Ciobica, M. Nicoara and C. Faggio, *Zebrafish as a Screening Model to Study the Single and Joint Effects of Antibiotics*, **Pharmaceuticals** 14(6) (2021) 578, WOS:000665935700001, [10.3390/ph14060578](https://doi.org/10.3390/ph14060578).
(IF: 5.215, AIS: 0.896, 16 citări, **Q1**, **Review**, n= 8)
- 9 I. A. Simionov, D. S. Cristea, S. M. Petrea, A. Mogodan, M. Nicoara, G. Pavan, E. S. Baltag, **R. Jijie**, S. A. Strungaru, *Preliminary investigation of lower Danube pollution caused by potentially toxic metals*, **Chemosphere** 264 (2021) 128496, WOS:000599817400073, [10.1016/j.chemosphere.2020.128496](https://doi.org/10.1016/j.chemosphere.2020.128496).
(IF: 8.943, AIS: 1.007, 8 citări, **Q1**, n= 9)
- 10 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](https://doi.org/10.1155/2021/9629102).
(IF: 7.310, AIS:, 5 citări, **Q2**, n=10)
- 11 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, WOS:000566446500054, [10.1016/j.chemosphere.2020.127316](https://doi.org/10.1016/j.chemosphere.2020.127316).
(IF: 7.086, AIS: 1.023, 42 citări, **Q1**, n=7)
- 12 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; WOS:000584087300001, [10.3390/antiox9100944](https://doi.org/10.3390/antiox9100944).
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- 13 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, (2020) 4690713, WOS:000540531300002, [10.1155/2020/4690713](https://doi.org/10.1155/2020/4690713).

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- 14 **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, WOS:000500580700106, [10.1016/j.scitotenv.2019.134299](https://doi.org/10.1016/j.scitotenv.2019.134299).
(IF: 7.963, AIS: 1.304, 42 citări, Q1, n= 5)
- 15 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, WOS:000497250600011, [10.1016/j.bios.2019.111736](https://doi.org/10.1016/j.bios.2019.111736).
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- 16 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, WOS:000467983100016, [10.1016/j.electacta.2019.04.083](https://doi.org/10.1016/j.electacta.2019.04.083).
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- 17 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, WOS:000459998000001, [10.1016/j.electacta.2019.01.187](https://doi.org/10.1016/j.electacta.2019.01.187).
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- 18 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 alternative for impedimetric bacteria sensing*, **Biosensors and Bioelectronics** 124-125(2019) 161-166, WOS:000451935500020, [10.1016/j.bios.2018.10.029](https://doi.org/10.1016/j.bios.2018.10.029).
(IF: 10.257, AIS: 1.469, 17 citări, Q1, n= 8)
- 19 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, WOS:000471328500014, [10.1039/c8tb01676c](https://doi.org/10.1039/c8tb01676c).
(IF: 5.344, AIS: 0.909, 26 citări, Cover Page, Q1, n= 9)
- 20 S. Strungaru¹, **R. Jijie**¹, M. Nicoara, G. Plavan and C. Faggio, *Micro-(nano) plastics in freshwater ecosystems: Abundance, toxicological impact and quantification methodology*,

TrAC Trends in Analytical Chemistry, 110 (2019) 116-128, WOS:000454880400010, [10.1016/j.trac.2018.10.025](https://doi.org/10.1016/j.trac.2018.10.025).

(IF: 9.801, AIS: 1.772, 231 citări, **Review**, Most downloaded Trends in Analytical Chemistry Articles in January 2019, Highly Cited Paper, **Q1**, n= 5)

- 21 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' Photothermally-Triggered Antibiotic Release Platform*, **ACS Applied Materials & Interfaces** 10(48) 2018:41098-41106, WOS:000452694100017, [10.1021/acsami.8b14784](https://doi.org/10.1021/acsami.8b14784).
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- 22 **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, WOS:000445989400041, [10.1016/j.colsurfb.2018.06.040](https://doi.org/10.1016/j.colsurfb.2018.06.040).
(IF: 3.973, AIS: 0.688, 64 citări, **Q1**, n= 6)
- 23 M. Amiri, M. Fallahi, A. Bezaatpour, **R. Jijie**, M. Nozari, M. Rouhi, R. Boukherroub, S. Szunerits, *Solution Processable Cu(II)macrocycle 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, WOS:000440520500007, [10.1021/acs.jpcc.8b02808](https://doi.org/10.1021/acs.jpcc.8b02808).
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- 24 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) 180-187, WOS:000427460600023, [10.1016/j.snb.2018.01.215](https://doi.org/10.1016/j.snb.2018.01.215).
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- 25 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, WOS:000427460600118, [10.1016/j.snb.2018.02.065](https://doi.org/10.1016/j.snb.2018.02.065).
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- 26 **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, WOS:000424884300030, [10.1016/j.snb.2017.12.169](https://doi.org/10.1016/j.snb.2017.12.169).

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- 27 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, WOS:000427380600041, [10.1016/j.electacta.2018.02.038](https://doi.org/10.1016/j.electacta.2018.02.038).
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- 28 K. Kahloulche¹, **R. Jijie**¹, 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, WOS:000416615500057, [10.1016/j.talanta.2017.09.065](https://doi.org/10.1016/j.talanta.2017.09.065).
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- 29 **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 Plasma Polymerized Polystyrene: An effective route to Inhibit Bacteria Adhesion*, **Journal of Materials Chemistry B** 6(2018) 3674-3683, WOS:000434780000006, [10.1039/c7tb02964k](https://doi.org/10.1039/c7tb02964k).
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- 30 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, WOS:000408905900062, <https://doi.org/10.3390/app7080812>.
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- 31 **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, WOS:000412769000002, [10.1039/c7me00048k](https://doi.org/10.1039/c7me00048k).
(IF: 2.708, AIS: 0.844, 32 citări, **Q2**, **Review**, n= 5)
- 32 **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, WOS:000415354000002, <https://doi.org/10.1039/c7tb02529g>.
(IF: 4.776, AIS: 0.961, 5 citări, **Q1**, **Review**, n= 4)

- 33 F. Halouane¹, **R. Jijie**¹, 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, WOS:000413200500010, [10.1039/c7tb01890h](https://doi.org/10.1039/c7tb01890h).
(IF: 4.776, AIS: 0.961, 15 citări, **Q1**, n=12)
- 34 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, WOS:000407684800011, [10.1039/c7tb00687j](https://doi.org/10.1039/c7tb00687j).
(IF: 4.776, AIS: 0.961, 11 citări, **Q1**, n=10)
- 35 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 WOS:000388059300017, [10.1016/j.asr.2016.08.010](https://doi.org/10.1016/j.asr.2016.08.010).
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- 36 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 Colloid and Interface Science** 480 (2016) 63-68, WOS:000381244900008, [10.1016/j.jcis.2016.07.002](https://doi.org/10.1016/j.jcis.2016.07.002).
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- 37 **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, WOS:000374098800009, [10.1039/c5tb02697k](https://doi.org/10.1039/c5tb02697k).
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- 38 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, WOS:000361257800002, [10.1016/j.diamond.2014.12.002](https://doi.org/10.1016/j.diamond.2014.12.002).
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- 39 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, *Effects of air transient spark discharge and helium plasma jet on water, bacteria, cells and biomolecules*, **Biointerphases** 10 (2) (2015) 029515, WOS:000357195600033, [10.1116/1.4919559](https://doi.org/10.1116/1.4919559).

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- 40 **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, WOS:000311355100004, [10.1109/TPS.2012.2217509](https://doi.org/10.1109/TPS.2012.2217509).

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- 41 **R. Jijie**, V. Pohoata and I. Topala, *Thermal behavior of bovine serum albumin after exposure to barrier discharge helium plasma jet*, *Applied Physics Letters*, 101 (2012) 144103, WOS:000309603300107, [10.1063/1.4757130](https://doi.org/10.1063/1.4757130).

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2. Articole științifice în volumul unor manifestări științifice naționale și internaționale

- 1 D. Ciubotaru, **R. Jijie**, V. Pohoata, I. Mihaila, A. Nastuta, M. Dobromir, I. Topala, *Spectroscopic studies of gas phase and deposited films in He/H₂/CnH_{2n+2} atmospheric pressure plasmas*, 23rd Europhysics Conference on Atomic and Molecular Physics of Ionized Gases (2016).
- 2 **R. Jijie**, T. Teslaru, M. Dobromir, V. Pohoata, I. Topala, R. Boukherroub, N. Dumitrascu, *Copolymerization and Water Stability of Atmospheric Pressure Plasma Polymerized Films from Allylamine and Styrene*, ISPC 22 – 22nd International Symposium on Plasma Chemistry (2015).
- 3 I. Topala, **R. Jijie**, A. Nastuta, I. Rusu, I. Mihaila and V. Pohoata, *Considerations on the use of atmospheric pressure plasma to generate complex molecular environments with relevance for molecular astrophysics*, ISPC 22 – 22nd International Symposium on Plasma Chemistry (2015).
- 4 **R. Jijie**, T. Teslaru, M. Dobromir, V. Pohoata, I. Topala, A. Barras, R. Boukherroub, N. Dumitrascu, *Influence of carrier gas on the behavior of plasma polymerized polystyrene films in aqueous media*, *Proceedings of the XXXII International Conference on Phenomena in Ionized Gases - ICPIG* (2015).
- 5 T. Teslaru, **R. Jijie**, M. Dobromir, V. Pohoata, I. Topala, V. Antoci, C.-I. Ciobanu, N. Dumitrascu, *On the polymerization reactions of thiophene monomers under atmospheric plasma conditions*, *Proceedings of the XXXII International Conference on Phenomena in Ionized Gases - ICPIG* (2015).
- 6 I. Topala, K. Hensel, K. Kucerovala, K. Sano, B. Tarabova, M. Janda, Z. Machala, C.T. Mihai, D. Gorgan, **R. Jijie**, M. Ciorpac, V. Pohoata, *Cell exposure to atmospheric pressure plasmas: modification of cell cycle and molecular structure*, *Proceedings of the XXXII*

International Conference on Phenomena in Ionized Gases - ICPIG (2015).

- 7 **R. Jijie**, L. Curecheriu, G. Rusu, V. Pohoata, I. Topala, R. Boukherroub, N. Dumitrascu, *Copolymerization of ethylene glycol with styrene: synthesis, characterization and stability in biological media*, JNRDM, 26-28 May 2014, Lille, France.
- 8 L. Oprica, **R. Strungaru-Jijie**, M. Grigore, M. Balasoiu, D. Creanga, G. Vochita, *Effect of AgNPs Biologically and Chemically Synthesized on Phanerochaete Chrysosporium Antioxidant Enzymes Activities*, 2021 International Conference on e-Health and Bioengineering (EHB), 18-19 Nov. 2021, Iasi, Romania (10.1109/EHB52898.2021.9657699, <https://ieeexplore.ieee.org/document/9657699>)

3.1. Lucrări prezentate la conferințe internaționale

- 1 **R. Jijie**, I. Topala, G. Rusu, M. Dobromir, V. Pohoata, N. Dumitrascu, *Atmospheric pressure plasma treatments of protein films and powders*, 10th International Conference on Global Research and Education (inter-Academia), 26-29 September 2011, Sucevita, Romania (poster).
- 2 **R. Jijie**, G. Bogdan Rusu, I. Topala, V. Pohoata and N. Dumitrascu, *Study of protein aggregation and enzymatic activity after exposure to dielectric barrier plasma jet in helium*, 4th International Conference on Plasma Medicine, Orléans, France, from June 17 to June 21, 2012 (poster).
- 3 I. Topala, A. Nastuta, **R. Jijie**, V. Pohoata, N. Dumitrascu, *Temporal kinetics of light emission from plasma at the interface with animal tissues*, 4th International Conference on Plasma Medicine, Orléans, France, from June 17 to June 21, 2012 (poster).
- 4 **R. Jijie**, V. Pohoata and I. Topala, *Rayleigh scattering study of bovine serum albumin thermal aggregation after exposure to barrier discharge helium plasma jet*, 11th International Conference on Global Research and Education (inter-Academia), 27-30 August 2012, Budapest, Hungary (prezentare orală).
- 5 **R. Jijie**, V. Pohoata and I. Topala, *Application of spectroscopic techniques for studying the effects of non-thermal plasma on biomacromolecules*, 9th International Conference On Physics Of Advanced Materials (ICPAM-9), 20-23 September 2012, Iasi, Romania (poster).
- 6 **R. Jijie**, V. Pohoata and I. Topala, *Modification of protein properties in aqueous solutions by direct helium plasma treatment*, 16th International Conference on Plasma Physics and Applications (CPPA), 20-25 June 2013, Magurele, Bucharest, Romania (poster).
- 7 A. Demeter, C. Lazarou, **R. Jijie**, A. V. Nastuta, V. Pohoata, I. Mihaila, G. Georghiou, I. Topala, *Experimental investigation and modeling of atmospheric pressure helium plasma jet for direct treatment of living tissues*, 16th International Conference on Plasma Physics and

Applications (CPPA), 20-25 June 2013, Magurele, Bucharest, Romania (prezentare orală).

- 8 **R. Jijie**, A. Demeter, V. Pohoata and I. Topala, *Effects of helium atmospheric pressure plasma jet on the BSA structure and thermal induced aggregation*, XXXI edition of the International Conference on Phenomena in Ionized Gases (ICPIG), 14-19 July 2013, Granada, Spain (poster).
- 9 K Hensel, M. Janda, K. Tarabova, B. Tarabova, Z. Machala, **R. Jijie**, C. T. Mihai, L. Gorgan, I. Topala, *Inactivation of bacteria and cells by DC transient spark discharge*, 5th International Conference on Plasma Medicine (ICPM5), 18 -23 May 2014, Nara, Japan (poster: 19-P03-13)
- 10 **R. Jijie**, L. Curecheriu, G. Rusu, V. Pohoata, I. Topala, R. Boukherroub, N. Dumitrascu, *Copolymerization of ethylene glycol with styrene: synthesis, characterization and stability in biological media*, JNRDM, 26-28 May 2014, Lille, France (poster).
- 11 **R. Jijie**, L. Curecheriu, G. Rusu, M. Dobromir, V. Pohoata, I. Topala, R. Boukherroub, N. Dumitrascu, *Deposition and characterization of plasma (co)polymerized films at the interface with biological medium*, High-Tech Plasma Processes, 22-27 June 2014, Toulouse, France (poster: PS1-19).
- 12 **R. Jijie**, V. Pohoată, I. Topală, N. Dumitracu, *Study of plasma polymerization process using atyrene and ethylene glycol vapors*, 13th International Conference on Global Research and Education (inter-Academia), 10-12 September 2014, Riga, Latvia (short oral presentation of special poster session for young researchers, iAY 22)
- 13 K. Turcheniuk, **R. Jijie**, J. Boukaert, N. Dumitrascu, R. Boukherroub, S. Szunerits, *Plasmonic nanostructures for the inactivate of bacteria strains*, 2016 E-MRS Spring Meeting, Materials – Established and emerging nanocolloids/ from synthesis and characetrization to applications II (invited presentation J.1.5).
- 14 **R. Jijie**, V. Turcheniuk, T. Filipiak, J. Bouckaert, M. Dobromir, A. Barras, S. Szunerits, R. Boukherroub, *Surface Plasmon Resonance: a useful technique for studying bacteria ashesion on menthol-functionalized surfaces*, 10th International Conference On Physics Of Advanced Materials (ICPAM-10), 22-28 September 2014, Iasi, Romania (poster: P-9).
- 15 K. Hensel, K. Tarabova, K. Sano, B. Tarabova, M. Janda, Z. Machala, **R. Jijie**, C. T. Mihai, L. Gorgan, V. Pohoata, I. Topala, *DC Transient Spark Discharge in Water effects on cells, DNA, proteins and enzymes*, 20th Symposium on Application of Plasma Processes, SAPP XX & COST TD1208 Workshop on Application of Gaseous Plasma with Liquids, 17-22 January 2015, Tatranska Lomnica, Slovakia (poster: P-35).
- 16 T. Teslaru, **R. Jijie**, I. Topala, M. Dobromir, V. Pohoata, N. Dumitrascu, *Stability of Polymers obtained in plasma reactors at atmospheric pressure*, European Winter

Conference on Plasma Spectroscopy (EWPCS), 22-26 February 2015, Munster, Germany (poster: FU2-PO08)

- 17 I.Mihaila, **R. Jijie**, V.Pohoata, A. Nastuta, I. Rusu, I. Topala, *Mass spectrometry diagnosis of hydrocarbon containing plasmas with relevance for molecular astrophysics of hot cores*, COST Action Our Astrochemical History CM1401, 25 – 29 May 2015, Prague, Czech Republic (poster – P16).
- 18 **R. Jijie**, T. Teslaru, M. Dobromir, V. Pohoata, I.Topala, R. Boukherroub, N. Dumitrascu, *Copolymerization and Water Stability of Atmospheric Pressure Plasma Polymerized Films from Allylamine and Styrene*, ISPC 22 – 22nd International Symposium on Plasma Chemistry, 5 – 10 July 2015, Antwerp, Belgium (poster – P-III-6-23).
- 19 I. Topala, **R. Jijie**, A. Nastuta, I. Rusu, I. Mihaila and V. Pohoata, *Considerations on the use of atmospheric pressure plasma to generate complex molecular environments with relevance for molecular astrophysics*, ISPC 22 – 22nd International Symposium on Plasma Chemistry, 5 – 10 July 2015, Antwerp, Belgium (poster – P-I-2-68).
- 20 **R. Jijie**, T. Teslaru, M. Dobromir, V. Pohoata, I. Topala, A. Barras, R. Boukherroub, N. Dumitrascu, *Influence of carrier gas on the behavior of plasma polymerized polystyrene films in aqueous media*, International Conference on Phenomena in Ionized Gases – XXXII ICPIG, 26- -31 July 2015, Iasi, Romania (poster – P4.58).
- 21 T. Teslaru, **R. Jijie**, M. Dobromir, V. Pohoata, I. Topala, V. Antoci, C.-I. Ciobanu, N. Dumitrascu, *On the polymerization reactions of thiophene monomers under atmospheric plasma conditions*, International Conference on Phenomena in Ionized Gases – XXXII ICPIG, 26- -31 July 2015, Iasi, Romania (poster – P3.39).
- 22 I. Mihaila, V. Pohoata, **R. Jijie**, A. Nastuta, I. Rusu, I. Topala, *Influence of discharge geometry on extraction of positive ion populations from atmospheric pressure plasmas*, International Conference on Phenomena in Ionized Gases – XXXII ICPIG, 26- -31 July 2015, Iasi, Romania (poster – P2.18)
- 23 I. Topala, K Hensel, K. Kucerova, B. Tarabova, M. Janda, Z. Machala, C. T. Mihai, L. D. Gorgan, **R. Jijie**, M. Ciorpac and V. Pohoata, *Cell exposure to atmospheric pressure plasmas: modification of cell cycle and molecular structure*, International Conference on Phenomena in Ionized Gases – XXXII ICPIG, 26- -31 July 2015, Iasi, Romania (invited presentation)
- 24 Z. Machala, K. Hensel, K. Kučerová, B. Tarabová, M. Janda, C.T. Mihai, L. Gorgan, **R. Jijie**, I. Topala, *Air transient spark discharge vs. helium plasma jet: The effects on bacteria, cells, and biomolecules*, Bioplasmas & Plasmas with Liquids - Joint Conference

- of COST TD1208 ‘Electrical discharges with liquids for future applications’, Bertinoro (Italy), September 13-17, p. USB (2015)
- 25 K. Kučerová, M. Janda, Z. Machala, K. Hensel, **R. Jijie**, C.T. Mihai, L. Gorgan, I. Topala, *Chemical and Biological Effects of Air DC Transient Spark Discharge in Water Electrode System*, 6th Central European Symposium on Plasma Chemistry CESPC, Bressanone (Italy), September 6-10, p. USB (2015).
 - 26 **R. Jijie**, T. Dumych, K. Turcheniuk, C. Hage, L. Helio, N. Dumitrascu, J. Boukaert, R. Boukherroub, S. Szunerits, *Photodynamic inactivation of pathogenic bacteria by plasmonic nanostructures embedded with indocyanine green*, 2016 E-MRS Spring Meeting, Biomaterials – Multifunctional nanostructures for diagnostic and therapeutic of diseases (poster R.9.54)
 - 27 H. Maaoui, **R. Jijie**, R. Chtourou, S. Szunerits and R. Boukherroub, *980-nm driven photothermal ablation of virulent and antibiotic resistant Gram- positive and Gram-negative bacteria strains*, 2016 E-MRS Spring Meeting, Biomaterials – Smart biointerfaces for functional biomaterials (oral presentation Q.10.2)
 - 28 D. Ciubotaru, **R. Jijie**, V. Pohoata, I. Mihaila, A. Nastuta, M. Dobromir, I. Topala, *Spectroscopic studies of gas phase and deposited films in He/H₂/C_nH_{2n+2} atmospheric pressure plasmas*, 2016, 23rd Europhysics Conference on Atomic and Molecular Physics of Ionized Gases, July 12-16, 2016, Bratislava, Slovakia (poster P03-08-01).
 - 29 I. Topala, C. Gerber, D. Hein, A. Nastuta, **R. Jijie**, V. Pohoata, I. Mihaila, C. Mihai, L. Gorgan, *Atmospheric pressure plasma jets for life science*, 23rd Europhysics Conference on Atomic and Molecular Physics of Ionized Gases, July 12-16, 2016, Bratislava, Slovakia (invited presentation TL4).
 - 30 **R. Jijie**, T. Teslaru, V. Pohoata, M. Dobromir, J. Bouckaert, S. Szunerits, R. Boukherroub, N. Dumitrascu, *Antibiofouling properties of plasma polymerized styrene film*, 11th International Conference On Physics Of Advanced Materials (ICPAM-11), 8-14 September 2016, Cluj-Napoca, Romania (oral presentation).
 - 31 **R. Jijie**, Delia Ciubotaru, Valentin Pohoata, Ilarion Mihaila, Andrei Vasile Nastuta, Marius Dobromir, Ionut Topala, *Characterization of carbonaceous deposits as interstellar dust analogs produced in hydrocarbon containing plasmas at atmospheric pressure*, 11th International Conference On Physics Of Advanced Materials (ICPAM-11), 8-14 September 2016, Cluj-Napoca, Romania (poster).
 - 32 S. Szunerits, **R. Jijie**, S. Boulahneche, S. K. Singh, M. S. Medjram, S. Kurungot, R. Boukherroub, *“On demand release of antibiotics from porous reduced graphene oxide*

modified flexible electrodes”, Symposium 3: Electrochemical Approaches to Clinical Diagnostics and Medical Devices. The 68th Annual Meeting of the International Society of Electrochemistry, 27 August to 1 September, 2017, Providence, RI, USA (invited presentation).

- 33 Strungaru S.-A., **Strungaru-Jijie R.**, Nicoara M., *Behavioural applications 2d and 3d at zebrafish model for measuring the toxicological effects of aquatic pollutants and future legislation*, 6th International Conference On Computational and Experimental Science and Engineering (ICCESEN-2019) 23-27 October 2019, ANTALYA-TURKEY, 100_455.
- 34 Ștefan-Adrian Strungaru, **Roxana Strungaru-Jijie**, Gabriel Plavan, Mircea Nicoara, Emanuela Păduraru, *Transfer of method from zebrafish model to native common carp for measuring toxicological effects of the harmful pollutants by the use of 2D and 3D behavioral applications*, TURK-COSE 2020: 2nd International Turkish World Science and Engineering Congress, Nur-Sultan (Astana), Kazakhstan, 14-15 November, 2020.
- 35 Emanuela Paduraru, **Jijie Roxana**, Diana-Elena Iacob, Elena-Iuliana Flocea, Viorica Rarinca, Mircea Nicoara, Alin Ciobica, Caterina Faggio, Ira-Adeline Simionov, *The neuroprotective role of vitamin C in zebrafish treated with lead and deltamethrin*, Food&Climate Change 2021, Koprivnica, 15-16 October, 2021 (P14).
- 36 L. Oprica, **R. Strungaru-Jijie**, M. Grigore, M. Balasoiu, D. Creanga, G. Vochita, *Effect of AgNPs Biologically and Chemically Synthesized on Phanerochaete Chrysosporium Antioxidant Enzymes Activities*, 2021 International Conference on e-Health and Bioengineering (EHB), 18-19 November, 2021, Iasi, Romania (P_94)

3.2. Lucrări prezentate la conferințe naționale

- 1 **R. Jijie**, I.Topala, V. Pohoata, N. Dumitrascu, *Studiu unor biomolecule modificate în plasmă la presiune atmosferică utilizând spectroscopia de fluorescență*, Student Scientific Conference FARPHYS, 29 October 2011, Iași, Romania (poster).
- 2 **R. Jijie**, I.Topala, V. Pohoata, N. Dumitrascu, *Studiu unor biomolecule modificate în plasmă la presiune atmosferică utilizând spectroscopia de fluorescență*, Student Scientific Conference FARPHYS, 29 October 2011, Iași, Romania (poster).
- 3 **R. Jijie**, V. Pohoata, I.Topala, *Study of Protein Thermal Aggregation Process by Rayleigh Scattering*, 41st National Conference on Physics and Modern Education Technologies (FTEM), 17-19 May 2012, Iași, Romania (poster).
- 4 V. Chiriac, **R. Jijie**, I. Topala, *Spectroscopic study of hemoglobin after exposure to denaturing agents*, 41st National Conference on Physics and Modern Education Technologies (FTEM), 17-19 May 2012, Iași, Romania (poster).

- 5 A. Demeter, **R. Jijie**, I. Topala, *Optical properties study of human skin in the UV-Vis spectral range*, 41st National Conference on Physics and Modern Education Technologies (FTEM), 17-19 May 2012, Iași, Romania (poster).
- 6 **R. Jijie**, A. Demeter, V. Pohoata and I. Topala, *Albumin Aggregation Capacity After Exposure to Atmospheric Pressure Plasma, UV Laser and Pulsed Ultrasound Field*, 5th National Conference of Applied Physics, 23-24 May 2013, Iasi, Romania (poster).
- 7 **R. Jijie**, A. Demeter, V. Pohoata and I. Topala, *X-ray photoelectron spectroscopy study of amino acids chemical structure after exposure to helium atmospheric pressure plasma jet*, 12th National Conference on Biophysics “CNB 2013” - Biophysics for Health, with International Participation, 13-16 June 2013, Iasi Romania (poster)
- 8 **R. Jijie et al.**, *Modelul “Noaptea Cercetătorilor”: o posibilă soluție pentru revitalizarea interesului elevilor pentru știință*, a XLII-a ediție a Conferinței Naționale Fizica și Tehnologiile Educationale Moderne (FTEM), 25 – 27 octombrie 2013, Iași, România (prezentare orală).
- 9 **R. Jijie**, T. Teslaru, M. Totolin, I. Topala, N. Dumitrascu, *Effects of cleaning method on the plasma polymerized thiophene (PPTH) films surface characteristics*, a XLII-a ediție a Conferinței Naționale Fizica și Tehnologiile Educationale Moderne (FTEM), 25 – 27 octombrie 2013, Iași, România (poster).
- 10 S.A. Strungaru, C. M. Pohontu, M. Nicoara, C. Teodosiu, E. Baltag, **R. Jijie**, G. Plavan, O. Pacioglu, C. Faggio, *Response of aquatic macroinvertebrates communities to multiple anthropogenic stressors in a lowland tributary river*, New trends in Biology: from molecules to complex systems, 28-29 October 2021, Iasi Romania

Data
15/12/2022

Semnătura
CS dr. Strungaru-Jijie Roxana