

LISTA LUCRĂRILOR ȘTIINȚIFICE

S.L. dr. ing. Ira-Adeline SIMIONOV

A. ARTICOLE PUBLICATE

A.1. Lucrări indexate ISI Web of Knowledge

A.1.1. Lucrări indexate ISI Web of Knowledge – în reviste cu factor de impact calculat

1. Constandache D, Andronoiu D-G, Nistor OV, Constantin OE, Moraru DI, **Simionov I-A**, Botez E, Mocanu G-D. The Impact of Total Replacement of Sodium Chloride with Potassium and Magnesium Chloride on Pickling of Granny Smith Apples. **Applied Sciences**. 2025; 15(7):3924. <https://doi.org/10.3390/app15073924>
Impact factor: 2.5 (Q2)
2. Antache A, **Simionov I-A***, Petrea Ș-M, Nica A, Georgescu P-L, Oprică L, Grigore M-N, Oroian M, Jitaru D, Liteanu A, et al. Insect–Antioxidants Symbiotic Nexus—Pathway for Sustainable and Resilient Aquaculture: A Case Study for Evaluating Koi Carp Growth and Oxidative Stress Status. **Antioxidants**. 2025; 14(4):371. <https://doi.org/10.3390/antiox14040371>
Impact factor: 6.7 (Q1)
3. Lazăr N-N, **Simionov I-A**, Călmuc M, Călmuc V-A, Iticescu C, Georgescu P-L, Timofti M, Drăgan S. Cross-Regional Elemental Comparison of Mussels Using Total Reflection X-Ray Fluorescence (TXRF). **Molecules**. 2025; 30(2):283. (WOS:001404300000001) <https://doi.org/10.3390/molecules30020283>
Impact factor: 4.6 (Q2)
4. **Simionov I.A.**, Barbu M., Vasiliev I., Condrachi L., Titica M., Ifrim G., Cristea D., Nuță F.M., Petrea S.M., Prospective technical and technological insights into microalgae production using aquaculture wastewater effluents, **Journal of Environmental Management**, Volume 377, 124537, 2025, (WOS:001436188800001) <https://doi.org/10.1016/j.jenvman.2025.124537>
Impact factor: 8 (Q1)
5. Popa, M. D., **Simionov, I.-A.**, Petrea, S. M., Georgescu, P.-L., Ifrim, G. A., & Iticescu, C. (2025). Efficiency of Microalgae Employment in Nutrient Removal (Nitrogen and Phosphorous) from Municipal Wastewater. **Water**, 17(2), 260. (WOS:001404809900001) <https://doi.org/10.3390/w17020260>
Impact factor: 3.3 (Q2)
6. Păduraru E, Jijie R, **Simionov I-A**, Gavrilescu C-M, Ilie T, Iacob D, Lupitu A, Moisa C, Muresan C, Copolovici L, et al. Honey Enriched with Additives Alleviates Behavioral, Oxidative Stress, and Brain Alterations Induced by Heavy Metals and Imidacloprid in Zebrafish. **International Journal of Molecular Sciences**. 2024; 25(21):11730. (WOS:001351462500001). <https://doi.org/10.3390/ijms252111730>
Impact factor: 5.6 (Q1)

7. Lazăr N.N., **Simionov I.A.***, Petrea S.M., Iticescu C., Georgescu P.L., Dima F., Antache A., The influence of climate changes on heavy metals accumulation in *Alosa immaculata* from the Danube River Basin, **Marine Pollution Bulletin**, Volume 200, 116145, March 2024, (WOS:001185588100001).
<https://doi.org/10.1016/j.marpolbul.2024.116145>
Impact factor: 6.5 (Q1)
8. **Simionov I.A.**, Călmuc M., Iticescu C., Călmuc M., Georgescu P.L., Faggio C., Petrea S.M., Human health risk assessment of potentially toxic elements and microplastics accumulation in products from the Danube River Basin fish market, **Environmental Toxicology and Pharmacology**, Volume 104, November 2023, 104307, (WOS:001109008600001)
<https://doi.org/10.1016/j.etap.2023.104307>
Factor de impact: 4.3 (Q1)
9. Milea S.A., Lazăr N.N., **Simionov I.A.**, Petrea S.M., Călmuc M., Călmuc V., Georgescu P.L., Iticescu C., Effects of cooking methods and co-ingested foods on mercury bioaccessibility in pontic shad (*Alosa immaculata*), **Current Research in Food Science**, 7, 100599, 2023, <https://doi.org/10.1016/j.crfs.2023.100599>, (WOS:001086297700001).
Factor de impact: 6.3 (Q1)
10. Jijie R., Padurare E., **Simionov I.A.**, Faggio C., Ciobica A., Nicoara M., Effects of Single and Combined Ciprofloxacin and Lead Treatments on Zebrafish Behavior, Oxidative Stress, and Elements Content, **International Journal of Molecular Sciences**, 24(5), 4952, 2023, <https://doi.org/10.3390/ijms24054952>, (WOS:000947707700001)
Factor de impact: 6.132 (Q1)
11. Petrea S.M., **Simionov I.A.***, Antache A., Nica A., Oprică L., Miron A., Zamfir C.G., Neculiță M., Dima F.M., Cristea D.S., An Analytical Framework on Utilizing Various Integrated Multi-Trophic Scenarios for Basil Production, **Plants**, 12 (3), 540, 2022, (WOS:000929620500001) <https://doi.org/10.3390/plants12030540>
Factor de impact: 4.827 (Q1)
12. Cristea D.S., Zamfir C., **Simionov I.A.**, Fortea C., Ionescu R.V., Zlati M., Antohi V., Munteanu D, Petrea S.M., Renewable energy strategy analysis in relation to environmental pollution for BRICS, G7, and EU countries by using a machine learning framework and panel data analysis, **Frontiers in Environmental Science**, Vol 10, 2022, (WOS:000900211500001), <https://doi.org/10.3389/fenvs.2022.1005806>
Factor de impact: 6.314 (Q2)
13. Paduraru E., Flocea E.I., Lazado C.C., **Simionov I.A.**, Nicoară M., Ciobică A., Faggio C., Jijie R., 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) <https://doi.org/10.3390/ijms222312714>
Factor de impact: 6.132 (Q1)
14. Cristea D.S., Rosenberg S., Pustianu Mocanu A., **Simionov I.A.**, Antache Mogodan A., Petrea S.M., Moga L.M., Modelling the Common Agricultural Policy Impact over the EU Agricultural and Rural Environment through a Machine Learning Predictive Framework, **Agronomy**, 2021, 11(11), 2105, (WOS:000834736800001) <https://doi.org/10.3390/agronomy11112105>
Factor de impact: 3.417 (Q1)

15. Petrea S.M., Zamfir C., **Simionov I.A.**, Mogodan A., Nuta F.M., Turek Rahoveanu A., Nancu D., Cristea D.S., Buhociu F.M., A Forecasting and Prediction Methodology for Improving the Blue Economy Resilience to Climate Change in the Romanian Lower Danube Euroregion, **Sustainability**, 2021, 13(21), 11563, (WOS:000720469700001), <https://doi.org/10.3390/su132111563>
Factor de impact: 3.251 (Q2)

16. **Simionov I.A.**, Cristea D.S., Petrea S.M., Mogodan A., Jijie R., Ciomea E., Nicoară M., Turek Rahoveanu M.M., Cristea V., Predictive Innovative Methods for Aquatic Heavy Metals Pollution Based on Bioindicators in Support of Blue Economy in the Danube River Basin, **Sustainability**, 2021, 13, 8936, (WOS:000690238300001), <https://doi.org/10.3390/su13168936>
Factor de impact: 3.251 (Q2)

17. Costache M., Cristea D.S., Petrea S.M., Neculita M., Turek Rahoveanu M.M., **Simionov I.A.**, Mogodan A., Sarpe D., Turek Rahoveanu A., Integrating aquaponics production systems into the Romanian green procurement network, **Land Use Policy**, 108, 105531, 2021, (WOS:000688454100005), <https://doi.org/10.1016/j.landusepol.2021.105531>
Factor de impact: 5.398 (Q1)

18. **Simionov I.A.**, Cristea D., Petrea S.M., Mogodan A., Nicoara M., Plavan G., Baltag E.S., Jijie R., Strungaru S.A., Preliminary investigation of lower Danube pollution caused by potentially toxic metals, **Chemosphere**, Volume 264, Part 1, 128496, 2021, (WOS:000599817400073), <https://doi.org/10.1016/j.chemosphere.2020.128496>
Factor de impact: 7.086 (Q1)

19. Petrea S.M., Costache M., Cristea D., Strungaru S.A., **Simionov I.A.**, Mogodan A., Oprica L., Cristea V., A machine learning approach in analyzing bioaccumulation of heavy metals in turbot tissues, **Molecules**, 25(20), 4696, 2020, (WOS:000585499400001), <https://doi.org/10.3390/molecules25204696>
Factor de impact: 4.411 (Q2)

20. **Simionov I.A.**, Cristea V., Petrea S. M., Mogodan A., Nicoara M., Baltag E. S., Strungaru S.A., Faggio C., Sex gender influence in bioconcentration and physiological demand of essential and nonessential elements in Black Sea turbot (*Psetta maxima maeotica*); 2019, **Journal of Marine Science and Engineering**, 7, 466, 1-18, (WOS:000506654700046), <https://doi.org/10.3390/jmse7120466>
Factor de impact: 2.458 (Q2)

21. **Simionov I.A.**, Cristea V., Petrea S.M., Bocioc Sîrbu E., The evaluation of heavy metals concentration dynamics in fish meat from the Black Sea coastal area: an overview, **Environmental Engineering and management Journal** (mai, 2019), Vol. 18, No. 5, 1097-1110, (WOS:000473511200015).
Factor de impact: 0.916 (Q4)
<http://www.eemj.eu/index.php/EEMJ/article/view/3872>

22. **Simionov I.A.**, Cristea V., Petrea S.M., Bocioc E., Plăcintă E., The influence of water and sediments nitrite concentration on chemical fish meat composition in different aquatic

ecosystems, **Revue Roumanie de Chimie** (august, 2017), Vol. 62, Issue 10, 783 – 791, (WOS:000428236700009)

Factor de impact: 0.395 (Q4)

<http://revroum.lew.ro/wp-content/uploads/2017/10/Art%2009.pdf>

A1.4. Lucrări indexate ISI Web of Knowledge – în volume ale conferințelor indexate (ISI Proceedings)

23. **Ira-Adeline Simionov**, Lin Kong, Samnang Pel, Catalin Planton, Domenico Caruso, Jacques Slembrouck, Stefan-Mihai Petrea, Virtual sensor for ammonia estimation in aquaculture technological water from Cambodia, Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering. Vol. XIII, 2024, pp. 618 – 625, (WOS:001411932900039).
<https://landreclamationjournal.usamv.ro/index.php/scientific-papers/current?id=708>
24. Stefan-Mihai Petrea, **Ira-Adeline Simionov**, Alina Antache, Aurelia Nica, Maxim Arseni, Adrian Rosu, Dragos Cristea, Catalin Platon, Catalina Iticescu, Analytical framework oriented towards environmental triggers in European great cities, Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering. Vol. XIII, 2024, pp. 201 – 211, (WOS:001411932400018).
<https://landreclamationjournal.usamv.ro/pdf/2024/Art23.pdf>
25. Aurelia Nica, **Ira-Adeline Simionov**, Alina Antache, Catalina Iticescu, Stefan-Mihai Petrea, Catalin Platon, Victor Cristea, Conceptual analysis on disaster resilience in the climate vulnerable community context, Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering. Vol. XIII, 2024, pp. 441 – 447, <https://landreclamationjournal.usamv.ro/pdf/2024/Art51.pdf>
26. Stefan-Mihai Petrea, **Ira-Adeline Simionov**, Alina Antache, Aurelia Nica, Madalina Calmuc, Valentina Calmuc, Dragos Cristea, Catalin Platon, Puiu Lucian Georgescu, Enabling soft sensors for water quality monitoring in multi-trophic aquaculture systems, Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering. Vol. XIII, 2024, pp. 610 – 617, (WOS:001411932900038)
<https://landreclamationjournal.usamv.ro/pdf/2024/Art72.pdf>
27. Alina Antache, **Ira-Adeline Simionov**, Stefan-Mihai Petrea, Aurelia Nica, Catalina Iticescu, Puiu-Lucian Georgescu, Cătălin Platon, Alin-Stelian Ciobîcă, Reducing the environmental impact by using a sustainable protein source in fish diet - insect meal. A review, Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering. Vol. XIII, 2024, pp. 857 – 865, (WOS:001411932400039)
<https://landreclamationjournal.usamv.ro/pdf/2024/Art104.pdf>
28. Metaxa Isabelle, Nica Aurelia, Petrea Ștefan-Mihai, **Simionov Ira-Adeline** and Antache Alina, "Utilization of *Hermetia Illucens* (Linnaeus,1758) as an Alternative Feed in Aquatic and Terrestrial Zootechny: Implications for Sustainable Food Production and Human Health

Safety," 2024 E-Health and Bioengineering Conference (EHB), IASI, Romania, 2024. pp. 1-6, doi: 10.1109/EHB64556.2024.10805741.

29. Aurelia Nica, Isabelle Metaxa, **Ira-Adeline Simionov**, Alina Antache and Stefan-Mihai Petrea, "A Review of Advances in the Dietary Inclusion of *Hermetia Illucens* in Fish Feeds," 2024 E-Health and Bioengineering Conference (EHB), IASI, Romania, 2024. pp. 1-4, doi: 10.1109/EHB64556.2024.10805714.
30. Aurelia Nica, Stefan-Mihai Petrea, **Ira-Adeline Simionov**, Alina Antache, Catalina Iticescu, Catalin Platon, Victor Cristea, Sustainable management of water resources, Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering. Vol. XIII, 2024, pp. 579 – 584, (WOS:001411932900034)
<https://landreclamationjournal.usamv.ro/pdf/2024/Art68.pdf>
31. Marcel Daniel Popa, **Ira-Adeline Simionov**, Stefan-Mihai Petrea, Floricel Maricel Dima, Neculai Patriche, Catalina Iticescu, Elena-Cristina Oancea, Marilena-Florentina Lacatus, Heavy Metals Accumulation In The Tissues Of The Common Reed (*Phragmites Australis*), **Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering**, Vol XII, pp. 86-91, 2023. WOS:001112288100027
<https://landreclamationjournal.usamv.ro/pdf/2023/vol2023.pdf>
32. Marcel Daniel Popa, Viorica Savin, **Ira-Adeline Simionov**, Florentina Lăcătuș, Elena-Ioana Coman, Elena-Cristina Oancea, Floricel Maricel Dima, Neculai Patriche, Cătălina Iticescu, The Influence Of Rearing Conditions On Growth, Meat Quality And Mortality Of *Acipenser Ruthenus*, **Scientific Papers. Series D. Animal Science. Vol. LXVI, No. 1, 2023.** WOS:001092354100080
https://animalsciencejournal.usamv.ro/pdf/2023/issue_1/Art81.pdf
33. Valentina Andreea Calmuc , Madalina Calmuc , Maxim Arseni, **Ira-Adeline Simionov**, Alina Antache, Stefania-Adelina Milea, Catalina Iticescu, Puiu Lucian Georgescu, Spatial Distribution Of Pharmaceuticals In The Lower Danube River Water, **Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering**, Vol XII, pp. 92-97, 2023. WOS:001112288100055
<https://landreclamationjournal.usamv.ro/pdf/2023/vol2023.pdf>
34. **Ira-Adeline Simionov**, Alina Antache, Mădălina Călmuc, Nina Condurache, Miruna Codreanu, Adelina Milea, Cătălina Iticescu, Puiu-Lucian Georgescu, Heavy Metals Accumulation In Processed Fish Products And Risk Assessment Analysis On Human Health, **Scientific Papers-Series E-Land Reclamation Earth Observation & Surveying Environmental Engineering**, Vol XII, pp. 290-295, 2023. WOS:001112288100061
<https://landreclamationjournal.usamv.ro/pdf/2023/vol2023.pdf>
35. **Ira-Adeline Simionov**, Valentina Călmuc, Ștefan-Mihai Petrea, Alina Antache, Aurelia Nica, Cătălina Iticescu, Puiu-Lucian Georgescu, Victor Cristea, Evaluation Of Heavy Metals Concentrations In The Black Sea Turbot And Elements Correlation Analysis, **Scientific**

36. Stefan-Mihai Petrea, **Ira-Adeline Simionov**, Alina Antache, Aurelia Nica, Cristina Antohi, Dragos Sebastian Cristea, Maxim Arseni, Madalina Calmuc, Catalina Iticescu, Machine Learning-Based Modeling Framework For Improving Romanian Resilience Strategy To Greenhouse Gas Emissions In Relation To Visegrad Group, **Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering**, Vol XII, pp. 150-157, 2023. WOS:001112288100032
<https://landreclamationjournal.usamv.ro/pdf/2023/vol2023.pdf>
37. Stefan-Mihai Petrea, **Ira-Adeline Simionov**, Alina Antache, Aurelia Nica, Cristina Antohi, Dragos Sebastian Cristea, Adrian Roşu, Valentina Calmuc, Bogdan Roşu, Prediction Models For Improving Waste Decision Support Management In Romania In Association With V4 Member Countries, **Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering**, Vol XII, pp. 158-166, 2023. WOS:001112288100030
<https://landreclamationjournal.usamv.ro/pdf/2023/vol2023.pdf>
38. Stefan-Mihai Petrea, **Ira-Adeline Simionov**, Alina Antache, Aurelia Nica, Dragos Sebastian Cristea, Victor Cristea, Analytical framework for the development of water quality virtual sensors in integrated aquaculture systems based on various aquaponics techniques, Proceedings of IEEE 28th International Conference on Emerging Technologies and Factory Automation (ETFA), 10.1109/ETFA54631.2023.10275350, pp. 1-5, 2023.
39. Antache A., Petrea S., **Simionov I.A.**, Nica A., Cristea V., Georgescu P.L., Iticescu C., , Ciobica A., Effect Of Dietary Supplementation Of Nile Tilapia With Sea Buckthorn And Vitamin E On The Hematological And Serum Biochemical Indices, Scientific Papers-Series D-Animal Science, Volume 66, Issue 2, Page 221-230, 2023 (WOS:001133092700006).
https://animalsciencejournal.usamv.ro/pdf/2023/issue_2/Art23.pdf
40. Alina Antache, **Ira-Adeline Simionov**, Valentina Calmuc, Madalina Calmuc, Aurelia Nica, Stefan Petrea, Catalina Iticescu, Puiu Lucian Georgescu, Alin Ciobica, Microalgal oil, alternative source of DHA and EPA acids in animal diets, Scientific Papers-Series D. Animal Science, 2023 – **Articol acceptat, în curs de publicare.**
41. Madalina Călmuc, Valentina Andreea Călmuc, Nina Nicoleta Condurache, Maxim Arseni, **Ira-Adeline Simionov**, Mihaela Timofti, Puiu-Lucian Georgescu, Catalina Iticescu, Study on microplastics occurrence in the Lower Danube river water, **Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering**, Vol XII, pp. 303-308, 2023. WOS:001112288100009
<https://landreclamationjournal.usamv.ro/pdf/2023/vol2023.pdf>
42. Aurelia Nica, Stefan Mihai Petrea, **Ira-Adeline Simionov**, Iticescu Catalina, Antache Alina and Metaxa Isabelle, Perspectives regarding the main biotechnological strategies for

43. **Simionov Ira-Adeline**; Antache Alina; Barbu Marian; Ifrim George Adrian; Titica Mariana; Ramon Villanova, Modeling of Porphyridium purpureum Photosynthetic Growth in an Air-Lift Photobioreactor, Proceedings of IEEE 28th International Conference on Emerging Technologies and Factory Automation (ETFA), 2023, 10.1109/ETFA54631.2023.10275417
44. **Simionov Ira-Adeline**, Calmuc Madalina, Antache Alina, Calmuc Valentina, Petrea Ștefan-Mihai, Nica Aurelia, Cristea Victor, Neculiță Mihaela, The Use Of Pectinatella Magnifica As Bioindicator For Heavy Metals Pollution In Danube Delta, **Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering**, Vol 11, 181 – 186, 2022, (WOS:000931961700021).
<https://landreclamationjournal.usamv.ro/pdf/2022/Art21.pdf>
45. Diana-Nicoleta Minzala, **Ira-Adeline Simionov**, Ștefan-Mihai Petrea, Alina Antache, Victor Cristea, Anca-Nicoleta Savescu, Evaluation Of Potentially Toxic Elements In Black Sea Fishery Resources: A Review, **Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering**, pp. 136 – 147, 2022, (WOS:000931961700016)
<https://landreclamationjournal.usamv.ro/pdf/2022/Art16.pdf>
46. Nica Aurelia, Petrea Ștefan-Mihai, **Simionov Ira-Adeline**, Antache Alina, Cristea Victor, Ecological Impact Of European Beaver, Castor Fiber, **Scientific Papers. Series D. Animal Science**, pp. 640 – 647, 2022, (WOS:000834534200086)
https://animalsciencejournal.usamv.ro/pdf/2022/issue_1/Art88.pdf
47. Gheorghe Dobrotă, Victor Cristea, Nicoleta-Georgeta Dobrotă, **Ira-Adeline Simionov**, Anca-Carmen Anghelescu, The Influence Of The Population Density On The Development Of The Species Sander Lucioperca (Linnaeus, 1758) In The Postembryonic Period, **Scientific Papers. Series D. Animal Science**, pp. 581 – 587, 2022, (WOS:000834534200077).
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48. Gheorghe Dobrotă, Victor Cristea, **Ira-Adeline Simionov**, Nicoleta-Georgeta Dobrotă, Ștefan Mihai Petrea, Experimental Results Regarding The Growth Of Pikeperch (Sander Lucioperca - Linne, 1758) In The First Year In Ponds, **Scientific Papers. Series D. Animal Science**, pp. 588 – 594, 2022, (WOS:000834534200078).
https://animalsciencejournal.usamv.ro/pdf/2022/issue_1/Art80.pdf
49. Nica Aurelia, **Simionov Ira-Adeline**, Antache Alina, Cristea Dragoș Sebastian, Petrea Ștefan-Mihai, Cristea Victor, Overview of Hormonal Substances Used in Fish Reproduction, **International Conference on e-Health and Bioengineering (EHB) Proceedings**, 2022, DOI: 10.1109/EHB55594.2022.9991377
<https://ieeexplore.ieee.org/document/9991377>

50. Alina Antache, Valentina Calmuc, Stefan-Mihai Petrea, **Ira-Adeline Simionov**, Madalina Calmuc, Aurelia Nica, Dragos Cristea, Mihaela Neculita, The Influence Of Pharmaceutical Residues From Surface Waters On Fish Oxidative Stress: A Review, **Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying**, Environmental Engineering, pp. 11 – 20, 2022, (WOS:000931961700001).
<https://landreclamationjournal.usamv.ro/pdf/2022/Art1.pdf>
51. Mădalina Călmuc, Valentina Andreea Călmuc, Maxim Arseni, **Ira-Adeline Simionov**, Alina Antache, Constantin Apetrei, Puiu Lucian Georgescu, Catalina Iticescu, Identification And Characterization Of Plastic Particles Found In The Lower Danube River, **Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying**, Environmental Engineering, pp. 332 – 337, 2022, (WOS:000931961700038).
<https://landreclamationjournal.usamv.ro/pdf/2022/Art40.pdf>
52. Adrian Valentin Buța, Mihaela Neculiță, Dragoș Cristea, Ștefan Petrea, Alina Mogodan, **Ira Simionov**, Measures And Tools To Streamline The Transition To Green Economy In Romania, **Series “Management, Economic Engineering In Agriculture And Rural Development”**, pp. 145 – 151, 2022, (WOS:000823117400016).
http://managementjournal.usamv.ro/pdf/vol.22_2/Art17.pdf
53. Stefan-Mihai Petrea, **Ira-Adeline Simionov**, Alina Antache, Aurelia Nica, Maxim Arseni, Adrian Roșu, Dragos Cristea, Mihaela Neculita, Phytoremediation Capacity And Phosphorus Mass Balance In A Basil-Sturgeons Aquaponics Integrated Recirculating System, **Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering**, pp. 153 – 162, 2022, (WOS:000931961700018).
<https://landreclamationjournal.usamv.ro/pdf/2022/Art18.pdf>
54. Simona Dunca, Lacramioara Oprica, **Ira-Adeline Simionov**, Alina Antache, Aurelia Nica, Marius-Nicusor Grigore, Anca Miron, Diana Costin, Răzvan Magean and Stefan-Mihai Petrea, Antibacterial activity of Ocimum basilicum L. extracts grown in aquaponic conditions against Gram-positive and Gram-negative species, **International Conference on e-Health and Bioengineering (EHB) Proceedings**, 2022, DOI: 10.1109/EHB55594.2022.9991296
<https://ieeexplore.ieee.org/document/9991296>
55. Stefan Mihai Petrea, Alina Antache, **Ira Adeline Simionov**, Aurelia Nica, Lacramioara Oprica, Anca Miron, Razvan Magean, Sarina Rosenberg and Dragos Cristea, The impact of growth media on production and volatile oil composition of Ocimum basilicum L. cultured in aquaponic conditions, **International Conference on e-Health and Bioengineering (EHB) Proceedings**, 2022, DOI: 10.1109/EHB55594.2022.9991340,
<https://ieeexplore.ieee.org/document/9991340>
56. **Ira-Adeline Simionov**, Isabelle Metaxa, Alina Mogodan, Stefan-Mihai Petrea, Aurelia Nica, Victor Cristea, Comparative Study Of Nitrogen Management In Two Different Cyprinid Aquaculture Technologies : Integrated Multi-Trophic Aquaculture Vs. Polyculture, **Scientific Papers-Series E-Land Reclamation Earth Observation & Surveying Environmental Engineering**, Vol. 10, 172-183, 2021, (WOS:000718023800026)

<http://landreclamationjournal.usamv.ro/pdf/2021/Art26.pdf>

57. **Ira-Adeline Simionov**, Stefan-Mihai Petrea, Alina Mogodan, Dragos Cristea, Aurelia Nica, Mihaela Neculita, Assessment Of Global Warming Impact On Aquatic Ecosystems: A State-Of-The-Art Perspective, **Scientific Papers-Series E-Land Reclamation Earth Observation & Surveying Environmental Engineering**, Vol. 10, pg. 166-171, 2021, (WOS:000718023800025)
<http://landreclamationjournal.usamv.ro/pdf/2021/Art25.pdf>
58. Sarina Rosenberg, Dragoş Cristea, Mihaela Neculiță, **Ira-Adeline Simionov**, Ştefan-Mihai Petrea, Alina Mogodan, Work In Rural Areas, An Analysis Of The Unemployment Rate And Its Evolution Over The Last Decade, **Scientific Papers Series Management, Economic Engineering in Agriculture and Rural Development**, Vol. 21, Issue 2, pg. 533-543, 2021 (WOS:000664986400062)
http://managementjournal.usamv.ro/pdf/vol.21_2/volume_21_2_2021.pdf
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98. Curlisca A., Cristea V., Petrea S.M., **Simionov I.A.**, Evolution of hydrochemical water conditions from marine mammals stationed pools at Natural Science Museum Complex Constanta (2006 - 2018), International Workshop on Sustainable Water Ecosystems Management (SWEM), Bucharest, 2019.
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104. Mogodan A., Petrea S.M., **Simionov I.A.**, Cristea V., Platon C., Impact evaluation of climate change on fisheries and aquaculture sector”, The 14 th Edition of Present Environment and Sustainable Development International Conference, Iasi, 2019.
105. Chioveanu M.C., **Simionov I.A.**, Patriche N., Tenciu M., Dragomir E., Cristea V., Minzala D.N., The influence of Danube river hydrographic and thermic factors on fish stocks dynamics in Razim-Sinoe lagoon system, 16th International Conference on Environmental Science and Technology, Rhodes, Grecia, 2019.
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112. **Simionov I.A.**, Cristea V., Bocioc E., Petrea S.M., The pressence of heavy metals concentration in fish meat from the danube river: a review, Young Researches in Biosciences, Cluj-Napoca, 2016.
113. **Simionov I.A.**, Cristea V., Petrea S.M., Bocioc E., Placinta S., Influence of nitrites concentration in water and sediments on fish meat biochemical composition, in different aquatic ecosystems, FBASM (Faculty of biology Annual Scientific Meeting) Iasi, 2016.
114. **Simionov I.A.**, Cristea V., Petrea S.M., Bocioc E., An evaluation of heavy metals concentration in fish meat from Black Sea coastal area: an overview, Scientific Conference of Doctoral Schools, Galati, 2016.
115. **Simionov I.A.**, Cristea V., Petrea S.M., Bocioc E., The pressence of heavy metals concentration in fish meat from the Danube River: a review, Scientific Conference of Doctoral Schools, Galati, 2016.
116. Andrei R., Cristea V., Dediu L., Cretu M, **Simionov I.A.**, Effects of dietary protein and meal frequency on growth performance of Nile tilapia (*Oreochromis niloticus*) reared in a recirculating aquaculture system, Scientific Conference of Doctoral Schools, Galati, 2016.
117. **Simionov I.A.**, Cristea V., Petrea S.M., Bocioc E.,, A review: heavy metals concentration in fish meat from Danube River, International Coference of Physical Chemistry (ROMPHYSICHEM), Galati, 2016.
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D. INVENȚII, INOVAȚII

1. Cerere de brevet OSIM nr. inregistrare A/00271 din 21.05.2021, **Simionov I.A.**, Petrea S.M., Antache A., Nica A., Cristea V., Rețetă de furaj combinat pentru creșterea durabilă a crapului ornamental (*C. carpio* L. 1758)

2. Sistem acvaponic cu substrat pentru creșterea durabilă a busuiocului (*Ocimum basilicum*) și a sturionului siberian (*Acipenser baerii*), Drogeanu R., Petrea S.M., Simionov I.A., Antache A., Nica A., Oprică L., Cristea V.

E. CITĂRI ÎN LITERATURA DE SPECIALITATE

1. Citări în Web of Science (fără autocitări) - 223
2. Citări Scopus (fără autocitări) – 217
3. Citări Google Scholar - 449

G.1. PROIECTE/GRANTURI/CONTRACTE DE CERCETARE ȘTIINȚIFICĂ CU FINANȚARE DE LA INSTITUȚII DIN STRĂINĂTATE

1.	Proiect nr. 3532/30.10.2023,, Advancing the Integration of Soft Skills in Higher Education for Water”, 2023-1-RO01-KA220-HED-000160511. (Valoare proiect 250.000 EUR).	Director proiect (coordonator)	Management de proiect	2023 – 2025
2.	Proiect nr. 101172857, HORIZON, “Revolutionary Refurbishment For An Efficient And Ecofriendly Hydropower”, (RevHydro).	Cercetător	Activități de cercetare	2024 - 2026
3.	proiectului nr. 101156533, HORIZON-MISS-2023-OCEAN-01, “Innovative Sediment Management Framework for a Sustainable Danube Black Sea System (SUNDANSE)”.	Cercetător în ecologie și protecția mediului	Activități de cercetare	2024 – 2026
4.	Proiect HORIZON, ”Integrated emerging approaches for joint protection and restoration of Natural Lakes in the spirit of European life heritage support (ProCleanLakes)”, contract de finanțare nr. 101157886/2024.	Cercetător în ecologie și protecția mediului	Activități de cercetare	2024 - 2026
5.	Proiect nr. 101112736/01.06.2023, HORIZON, „Restoration of wetland complexes as life supporting systems in the Danube Basin (Restore4Life)”.	Cercetător	Activități de cercetare	2024 – 2026

6.	în cadrul proiectului „Horizon-Miss-2021-Ocean-02, Danube Region Water Lighthouse Action”, DALIA.	Cercetător	Activități de cercetare	2024 - 2026
7.	Proiect „Researches on the potential conversion of conventional fish farms into organic by establishing a model and good practice guide (ECOFISH), contract nr. 645691/2015, finanțat prin programul Research and Innovation Staff Exchange (RISE)”, proiect nr. H2020-MSCA-RISE-2014.	Cercetător	Activități de cercetare	2024 - 2026

G.2. PROIECTE/GRANTURI/CONTRACTE DE CERCETARE ȘTIINȚIFICĂ CU FINANȚARE DE LA INSTITUȚII DIN ROMÂNIA

1.	Contract nr. 32114/20.10.2023 „Ecological Intensification and Sustainable Aquaculture for Cambodia – EISACAM” Joint-Venture for IT1 “Hatcheries development and Researches on Ecological intensification” EU Project CapFish Aqua (Valoare totala: 31.400 USD, curs EURO din 20.10.2023: 4.9734 echivalent a 28.638 EUR).	Director de proiect	Management de proiect Transfer de cunoaștere	2023 - 2025
2.	Proiect „ADER 14.1.2 - Cercetări privind influența schimbărilor hidroclimatice asupra stocurilor și migrației cârdurilor de scrumbie de Dunăre – Alosa immaculata de la gurile Dunării până la barajul Porțile de Fier 2”. (Valoare proiect 80.000 RON, curs EURO din 17.07.2023: 4.940 echivalent a 16.194 EUR).	Responsabil partener	Management de proiect Activități de cercetare	2023 - 2026
3.	Proiect nr. 780/22.10.2021 (Universitatea “Dunărea de Jos”, Galați) – Cercetări privind profilul de macro- și micro-elemente în sarea provenită de la: Salina Tg.	Director de proiect	Management de proiect Activități de cercetare	2021 - 2022

	Ocna, Salina Dej, Salina Prahova, Salina Praid, Exploatarea Miniera Râmnicu Vâlcea. (Valoare 52.920 RON, curs EURO 22.10.2021: 4.9467 echivalent 10.698 EUR).			
4.	în cadrul PN-IV-P7-7.1-PTE-2024-0249, “Barieră comportamentală automatizată pentru conservarea biodiversității prin evitarea captării peștilor în prizele de apă” – LEADER	Cercetător	Activități de cercetare	2025 - 2027
5.	Proiect „Integrated research and sustainable solutions to protect and restore Lower Danube Basin and coastal Black Sea ecosystems” – ResPonSE.	Cercetător	Activități de cercetare	2023 - 2025
6.	Proiect nr. 5206/2022 „Impactul metalelor grele și a microplasticului din organisme acvatice asupra sănătății umane”.	Ihtiolog	Activități de cercetare	2022 - 2024
7.	Proiect „Îmbunătățirea condițiilor hidrologice în habitatele naturale acvatice din Rezervația Biosferei Delta Dunării pentru conservarea biodiversității și a resurselor halieutice - Complexele lacustre Gorgova-Uzlina, Roșu-Puiu”, POIM 120890.	Ecolog	Activități de cercetare	2021 - 2023
8.	Proiect „Îmbunătățirea condițiilor hidrologice în habitatele naturale acvatice din RBDD pentru conservarea biodiversității și a resurselor halieutice - Complexele lacustre Șontea-Furtună, Matîța-Merhei, Somova Parcheș”, POIM 120889.	Ecolog	Activități de cercetare	2021 - 2023
9.	Proiect „Îmbunătățirea condițiilor hidrologice în habitatele naturale acvatice din RBDD pentru conservarea biodiversității și a resurselor halieutice - Complexele	Ecolog	Activități de cercetare	2021 - 2023

	lacustre Dunăvăț-Dranov, Razim-Sinoie, Zona Sinoie-Istria-Nuntași”, POIM 120892.			
10.	Proiect „Modelarea și controlul mecanismelor de stres subletal la microalge în spiritul conceptului de biorafinărie”, proiect nr. PN-III-P1-1.1-TE2019-2062 , finanțat din fonduri guvernamentale, contract de finanțare nr. TE64 / 2020.	Cercetător	Activități de cercetare	2020 - 2022
11.	Proiect „Optimizarea tehnologiilor de creștere a biomasei piscicole și vegetale în cadrul sistemelor multi-trofice de acvacultură intensivă prin utilizarea tehnicilor inteligente de recunoaștere vizuală”, proiect nr. PN-III-P2-2.1-PTE-2019-0697, finanțat din fonduri guvernamentale, contract de finanțare nr. 51PTE / 2020.	Cercetător	Activități de cercetare	2020 - 2022
12.	Proiect „Excelența academică și valori antreprenoriale - sistem de burse pentru asigurarea oportunităților de formare și dezvoltare a competențelor antreprenoriale ale doctoranzilor și post doctoranzilor”, contract nr. 36355/23.05.2019 POCU/380/6/13, cod SMIS: 123847 ANTREPRENORDOC.	Cercetător postdoctoral	Activități de cercetare	2020 - 2022
13.	Proiect „Cercetări privind transformarea potențială a fermelor de pește convenționale în ferme organice prin stabilirea unui model și a unui ghid de bune practice”, Contract nr. 18/2017 – PN-III-3.6-18/2017.	Cercetător	Activități de cercetare	2020 - 2022

Data: 16.05.2025

Întocmit,
S.L. dr. ing. Ira-Adeline SIMIONOV