

Curriculum vitae Europass



Personal information

First name(s) / Surname(s) **Gabriel, Ionuț, PLAVAN**
Address(es) Măgurei Str., no. 6, bl. 626 C, fl. 4, ap. 18, Iasi, zip code 710124
Telephone(s) +40 232201525 **Mobil:** +40 741515113
Fax +40 232201525
E-mail safe2006@yahoo.com, gabriel.plavan@uaic.ro
Nationality Romanian
Date and place of birth 20.06.1981, Botosani
Gender Male

Work experience

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|---|---|
| Period | 2015 – Present |
| Occupation or position held | Lecturer |
| Main activities and responsibilities | Courses, practical works and seminars |
| Name and address of employer | Al. I. Cuza” University of Iasi, Faculty of Biology, Bd. Carol I, No.11, 700506, Romania |
| Type of business or sector | Teaching and research activity |
| Period | 2011 – 2015 |
| Occupation or position held | Assistant professor |
| Main activities and responsibilities | Practical works, seminars |
| Name and address of employer | Al. I. Cuza” University of Iasi, Faculty of Biology, Bd. Carol I, No.11, 700506, Romania |
| Type of business or sector | Teaching and research activity |
| Period | 2007 – 2011 |
| Occupation or position held | Preparatory |
| Main activities and responsibilities | Practical works, seminars |
| Name and address of employer | ”Al. I. Cuza” University of Iasi, Faculty of Biology, Bd. Carol I, No.11, 700506, Romania |
| Type of business or sector | Teaching and research activity |

Education and training

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| Period | 09.04.2013 |
| Title of qualification awarded | Certificate of attendance at the seminar of training, formation and awareness in the project " Study concerning the modalities of national promotion of the EU environmental management and auditing system (EMAS) and encourage voluntary participation of organizations in EMAS, according to the EMAS European legislation and community scheme of EU eco-label award, assumed through European regulation and Council of Europe (CE) nr. 66/2010 from 25 of November 2009 regarding the Eco-label" |
| Name and type of organisation providing education and training | Ministry of Environment and Climate Change through the Department of Impact Assessment and Pollution Control |
| Period | 13 – 23 February 2012 |
| Title of qualification awarded | Postgraduate Certificate "Analysis and risk control (approaches)" |
| Name and type of organisation providing education and training | Center for Training and Risk Analysis in Engineering (CeFAIR), "Alexandru Ioan Cuza" University of Iasi |
| Period | 2000 – 2004 |
| Title of qualification awarded | Ecologist |
| Name and type of organisation providing education and training | "Al. I. Cuza" University of Iasi, Faculty of Biology |
| Period | July 2003 – September 2003 |
| Title of qualification awarded | Diploma of linguistic competences |
| Name and type of organisation providing education and training | „Aristotel” University of Thessaloniki, Greece |
| Period | October 2003 – March 2004 |
| Title of qualification awarded | "Erasmus" Programme |
| Name and type of organisation providing education and training | „Aristotel” University of Thessaloniki, Greece |
| Period | 2004 - 2006 |
| Title of qualification awarded | Master degree |
| Name and type of organisation providing education and training | "Al. I. Cuza" University of Iasi, Faculty of Biology, Specialization: Biodiversity and ecosystems productivity |
| Period | 28 May – 5 June 2006 |
| Title of qualification awarded | Certificate of attendance of School of Conservation Biology |
| Name and type of organisation providing education and training | Institute of Marine Research, Rovinj, Croatia |
| Period | 28 August – 8 September 2006 |
| Title of qualification awarded | Diploma |
| Name and type of organisation providing education and training | „Limno-ecological Summer School", Potoci, Romania |
| Period | 27 August - 9 September 2007 |
| Title of qualification awarded | Diploma |
| Name and type of organisation providing education and training | „Limno-ecological Summer School", Konstanz, Germany |
| Period | 08 March 2010 - 26 March 2010 |
| Title of qualification awarded | Certificate |
| Name and type of organisation providing education and training | Specialization: environmental auditor SC. Euroasia SRL |
| Period | 2004 - 2010 |

Title of qualification awarded | Doctor in sciences Diploma
Specialization: Ecology and environmental protection

Name and type of organisation providing education and training | "Al. I. Cuza" University of Iasi, Faculty of Biology

PERSONAL SKILLS AND COMPETENCES

Mother tongue(s) | **Romanian**

Other language(s)

Self-assessment

European level (*)

English

French

Greek

| Understanding | | | | Speaking | | | | Writing | |
|---------------|-------------------|---------|-------------------|--------------------|-------------------|-------------------|-------------------|---------|-------------------|
| Listening | | Reading | | Spoken interaction | | Spoken production | | | |
| C1 | Experimented user | C2 | Experimented user | C1 | Experimented user | C1 | Experimented user | C1 | Experimented user |
| B2 | Independent user | C2 | Experimented user | B2 | Independent user | B1 | Independent user | B2 | Independent user |
| B1 | Independent user | C1 | Experimented user | B1 | Independent user | B1 | Independent user | B2 | Independent user |

(*) [Common European Framework of Reference for Languages](#)

SOCIAL SKILLS AND COMPETENCES

Communication skills, sociability, flexibility, spontaneity, sports skills, organizational spirit, ambition, perseverance and adaptability

Organisational skills and competences

Good experience in project and team management
ERASMUS+/SEE Coordinator for the Faculty of Biology since 2012

TECHNICAL ABILITIES AND PROFICIENCIES
Computer skills and competences

Word, Excel, PowerPoint, Quattro Pro, Internet, Corel Draw, Photoshop.
use of laboratory equipment and field equipment

Member of professional associations

International Society of Limnology (SIL)
Society of Limnology (SL)
Romanian Society of Ecology (SRE)

Other skills and competences

- Master Scuba Diving (NAUI)

- Driving licence: category B
- International Boat Driving Licence: Class D

International activity:

I participated as a teacher in 5 summer schools in the field of aquatic ecology (2 at University of Konstanz – Germany (Limno-Ecological Summers School) and 3 at University Adam Mickiewicz in Poznan (Poland) (Ecological state of the lake during restoration measures)); I obtained teaching / research mobilities with topics in the field of hydrobiology, aquatic ecotoxicology and biodiversity conservation at "Firat" University of Elazig (Turkey), Nigde University (Turkey), "Aristotel" University of Thessaloniki (Greece), Agricultural University of Athens (Greece), University of Huelva (Spain), University of Turin (Italy), University of Messina (Italy), Iceland University, Reykjavik (Iceland), Cairo University (Egypt), University of Tirana (Albania,) College of Nyíregyháza (Hungary), "Dzemaal Bijedic" University of Mostar (Bosnia and Herzegovina), University of Montenegro (Montenegro), University of Cyprus, Nicosia (Cyprus), University of Carthage (Tunisia) and Sidi Mohamed Ben Abdellah University (Morocco). I participated to the School of Conservation Biology, Institute of Marine Research, Rovinj (Croatia) where approached elements for biodiversity conservation in protected areas were.

Technical skills:

GF-AAS; GF-AAS; Flame-AAS; Hydride generator with cold vapour for Hg AAS; UV/VIS absorbance spectroscopy; Fluorescence microscopy; Multi N/C- carbon and nitrogen analyses (TOC, TIC, TN, TC, NPOC, NPOC+); Analysis of environmental health; Analytical Toxicology and ecotoxicology of metals on biological organisms; Maintenance / optimization / standardization of laboratory equipment; Preparation / optimization of the reagents; Technical Control standardized EU / USEPA quality metal analyzes of samples; Analytical Method Development and data validation and interpretation.

SCIENTIFIC ACTIVITY

Editorial Board Member:

1. Journal of Survey in Fisheries Sciences (http://www.sifisheriessciences.com/page.php?slct_pg_id=13&sid=1&slc_lang=en)
2. Limnological Review - The Journal of Polish Limnological Society (<https://content.sciendo.com/view/journals/limre/limre-overview.xml>)

ISI quoted journals referent:

1. Analytical and bioanalytical chemistry (Springer), Impact Factor: 4.157
2. Antioxidants (MDPI), Impact Factor: 7.675
3. Arabian Journal of Chemistry (Elsevier), Impact Factor: 6.212
4. Bioengineering (MDPI), Impact Factor: 5.046
5. Brazilian Journal of Biology (SciELO), Impact Factor: 1.651
6. Bulletin of Environmental Contamination and Toxicology (Springer), Impact Factor: 2.151
7. Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. Food Science and Technology (University of Agricultural Sciences and Veterinary Medicine), Impact Factor: -
8. Brazilian Journal of Biology (SciELO), Impact Factor: 1.651
9. Global Ecology and Conservation (Elsevier), Impact Factor: 3.97
10. Comparative Biochemistry and Physiology C-Pharmacology Toxicology & Endocrinology (Elsevier), Impact Factor: 4.52
11. Geomicrobiology Journal (Taylor & Francis Inc), Impact Factor: 2.308
12. Chemosphere (Elsevier), Impact Factor: 4.427
13. Ecological Indicators (Elsevier), Impact Factor: 3.230
14. Ecotoxicology and Environmental Safety (Elsevier), Impact Factor: 7.129
15. Environmental Geochemistry and Health (Springer), Impact Factor: 4.898
16. Environmental Pollution (Elsevier), Impact Factor: 4.358
17. Environmental Science and Pollution Research (Springer), Impact Factor: 2.8
18. Environmental Toxicology and Pharmacology (Elsevier), Impact Factor: 4.86
19. Fishes (MDPI), Impact Factor: 3.17
20. Food Chemistry (Elsevier), Impact Factor: 4.946
21. Frontiers in Ecology and Evolution (Frontiers Media SA), Impact Factor: 4.496

22. *Frontiers in Marine Science* (Frontiers Media SA), Impact Factor: 5.247
23. *Geomicrobiology Journal* (Taylor & Francis Inc), Impact Factor: 2.412
24. *Human and Ecological Risk Assessment: An International Journal* (Taylor & Francis Inc), Impact Factor: 1.508
25. *International Journal of Molecular Sciences* (MDPI), Impact Factor: 5.924
26. *Journal of Chemistry* (Hindawi LTD), Impact Factor: 3.241
27. *Journal of King Saud University – Sciences* (Elsevier), Impact Factor: 4.011
28. *Journal of Microbiology, biotechnology and food sciences* (Faculty of Biotechnology and Food Sciences in Nitra), Impact Factor: -
29. *Journal of Neuroscience Methods* (Elsevier): Impact Factor: 2.39
30. *Journal of Thermal Biology* (Elsevier): Impact Factor: 2.361
31. *Marine Pollution Bulletin* (Elsevier): Impact Factor: 4.049
32. *Molecules* (MDPI): Impact Factor: 4.927
33. *Pesticide biochemistry and physiology* (Elsevier): Impact Factor: 3.963
34. *Process Biochemistry* (Elsevier): Impact Factor: 2.952
35. *Reviews in Fish Biology and Fisheries* (Springer): Impact Factor: 6.845
36. *Science of the Total Environment* (Elsevier): Impact Factor: 7.963
37. *Molecules* (MDPI): Impact Factor: 4.927
38. *Sustainability* (MDPI), Impact Factor: 3.889
39. *Toxins* (MDPI): Impact Factor: 5.075
40. *Toxin Reviews* (Taylor & Francis Inc), Impact Factor: 2.851
41. *Turkish Journal Of Fisheries and Aquatic Sciences* (Central Fisheries Research Inst), Impact Factor: 0.48
42. *Water* (MDPI): Impact Factor: 3.53

Indexed journals referent:

1. *Biodiversitas Journal of Biological Diversity* (Society for Indonesian Biodiversity)
2. *Biotechnology Research & Innovation* (BIORI) (Brazilian Society of Biotechnology (SBBIOTEC))
3. *International Journal of Veterinary Science* (IJVS)
4. *Issues in Biological Sciences and Pharmaceutical Research* (IBSPR)
5. *Limnological Review* (De Gruyter)

ISI quoted journals:

1. **Gabriel PLAVAN**, Mircea NICOARĂ, Nicolae APETROAIEI & Oana PLAVAN, 2012 – THE EFFECTS OF FISH CAGE AQUACULTURE ON THE PROFOUND MACROZOOBENTHOS IN THE OLIGO-MESOTROPHIC RESERVOIR IZVORU MUNTELUI BICAZ (ROMANIA), *Carpathian Journal of Earth and Environmental Sciences*, May 2012, Vol. 7, No. 2, p. 145 – 148 (IF 1,307)
2. Oana Jitar, Carmen Teodosiu, Mircea Nicoara & **Gabriel Plavan**, 2013 – STUDY OF HEAVY METAL POLLUTION AND BIOACCUMULATION IN THE BLACK SEA LIVING ENVIRONMENT, *Journal of Environmental Health Science & Engineering*, Vol. 12, No. 2, 271 – 276, <http://omicron.ch.tuiasi.ro/EEMJ/> (IF 1,186)
3. Ryszard Goldyn, Beata Messyasz, Piotr Domek, Wilhelm Windhorst, Cindy Hugenschmidt, Mircea Nicoara & **Gabriel Plavan**, 2013 – THE RESPONSE OF LAKE DUROWSKIE ECOSYSTEM TO RESTORATION MEASURES, *Carpathian Journal of Earth and Environmental Sciences*, Vol. 8, No. 3, p. 43 – 48 (IF 1,307)
4. Brandusa Robu, Oana Jitar, Carmen Teodosiu, Stefan-Adrian Strungaru, Mircea Nicoara, **Gabriel Plavan**, 2015 – ENVIRONMENTAL IMPACT AND RISK ASSESSMENT OF THE MAIN POLLUTION SOURCES FROM THE ROMANIAN BLACK SEA COAST, *Environmental Engineering and Management Journal*, Vol.14, No.2, 331-340 (IF 1,186)
5. Oana Jitar, Carmen Teodosiu, Andra Oros, **Gabriel Plavan** and Mircea Nicoara, 2015 – BIOACCUMULATION OF HEAVY METALS IN MARINE ORGANISMS FROM THE ROMANIAN SECTOR OF THE BLACK SEA, *New Biotechnology*, Volume 32, Issue 3, 369–378, (IF 4,674)
6. Stefan-Adrian Strungaru, Mircea Nicoara, Oana Jitar, **Gabriel Plavan**, 2015 – INFLUENCE OF URBAN ACTIVITY IN MODIFYING WATER PARAMETERS, CONCENTRATION AND UPTAKE OF HEAVY METALS IN *TYPHA LATIFOLIA* L. INTO A RIVER THAT CROSSES AN INDUSTRIAL CITY, *Journal of Environmental Health Science & Engineering*, 13:5, DOI 10.1186/s40201-015-0161-7 (IF 1,64)
7. Fântânariu Mircea, Trincă Lucia Carmen, Solcan Carmen, Trofin Alina, Strungaru Ștefan, Șindilar Eusebiu, **Plăvan Gabriel**, Stanciu Sergiu, 2015 – A NEW FE-MN-SI ALLOPLASTIC BIOMATERIAL AS BONE GRAFTING MATERIAL: IN VIVO STUDY, *Applied Surface Science* (2015), <http://dx.doi.org/10.1016/j.apsusc.2015.04.197> (IF 6,182)
8. Stefan-Adrian Strungaru, Mircea Nicoara, Oana Jitar, Ioan Moglan, **Gabriel Plavan**. AN OVERVIEW OF THE DEVELOPMENT AND PROGRESS OF WATER SUPPLY AND WASTEWATER TREATMENT IN ROMANIA, Acceptat pentru publicare August 2015 *Environmental Engineering and Management Journal*, ISSN 1582-9596 (IF 1,186)
9. **Gabriel Plavan**, Oana Jitar, Carmen Teodosiu, Mircea Nicoara, Dragos Micu & Stefan-Adrian Strungaru, 2017 – TOXIC METALS IN TISSUES OF FISHES FROM THE BLACK SEA AND ASSOCIATED HUMAN HEALTH RISK EXPOSURE, *Environmental Science Pollution Research*, DOI 10.1007/s11356-017-8442-6 (IF 2,8)
10. Marius Andrei Rau, **Gabriel Plavan**, Stefan Adrian Strungaru, Mircea Nicoara, Pablo Rodriguez-Lozano, Alin Miha-Pintilie, Dorel Ureche, Piotr Klimaszyk, 2017 – THE IMPACT OF AMUR SLEEPER (*PERCCOTTUS GLENII* DYBOWSKY, 1877) ON THE RIVERINE

ECOSYSTEM: FOOD SELECTIVITY OF AMUR SLEEPER IN A RECENTLY COLONIZED RIVER, *Oceanological and Hydrobiological Studies*, Volume 46, Issue 1, DOI: 10.1515/ohs-2017-0010 (IF 0,753)

11. Ioana-Miruna Balmuş, Stefan-Adrian Strungaru, Alin Ciobica, Mircea-Nicuşor Nicoara, Romeo Dobrin, **Gabriel Plavan** and Cristinel Ştefănescu, 2017 – PRELIMINARY DATA ON THE INTERACTION BETWEEN SOME BIOMETALS AND OXIDATIVE STRESS STATUS IN MILD COGNITIVE IMPAIRMENT AND ALZHEIMER'S DISEASE PATIENTS. *Oxidative Medicine and Cellular Longevity*, Volume 2017, Article ID 7156928, 7 pages, <https://doi.org/10.1155/2017/7156928> (I.F.=4.593)
12. Ioana Miruna Balmuş, Stefan Strungaru, Mircea Nicoara, **Gabriel Plavan**, Sabina Ioana Cojocaru, Laurentiu Simion, 2017 – PRELIMINARY DATA REGARDING THE EFFECTS OF OXYTOCIN ADMINISTRATION ON THE OXIDATIVE STRESS STATUS OF ZEBRAFISH (DANIO RERIO). *REV.CHIM.(Bucharest)*, 68, No.7 (IF 1,232)
13. Cristina Preda, Ioana Vasiliu, Laura Mihalache, Ioana Armasu, Ionela Lacramioara Serban, Dragomir Nicolae Serban, Bogdan Stoica, Delia Gabriela Ciobanu, Ovidiu Bredeteian, Stefan Adrian Strungaru, Mircea Nicoara, **Gabriel Plavan**, Carmen Vulpoi, 2017 – SELENIUM- ESSENTIAL ANTIOXIDANT ELEMENT THE EXAMPLE OF AUTOIMUNE THYROIDITIS. *REV.CHIM.(Bucharest)*, 68, No.7 (I.F.=1.232; A.I.=0.06-eigenfactor.org)
14. Stefan-Adrian Strungaru, Mircea Nicoara, Carmen Teodosiu, Dragos Micu, **Gabriel Plavan**, 2017 – TOXIC METALS BIOMONITORING BASED ON PREY-PREDATOR INTERACTIONS AND ENVIRONMENTAL FORENSICS TECHNIQUES: A STUDY AT THE ROMANIAN-UKRAINE CROSS BORDER OF THE BLACK SEA. *Marine Pollution Bulletin*, <https://doi.org/10.1016/j.marpolbul.2017.07.052> (I.F.=3.146; A.I.=0.75-eigenfactor.org)
15. Strungaru, SA; Nicoara, M; Teodosiu, C; Baltag, E ; Ciobanu, C; **Plavan, G**, 2018 – PATTERNS OF TOXIC METALS BIOACCUMULATION IN A CROSS-BORDER FRESHWATER RESERVOIR, *Chemosphere*, 207:192-202; DOI: 10.1016/j.chemosphere.2018.05.079 (IF 4,427)
16. Anastasescu, C; Preda, S; Rusu, A; Culita, D; **Plavan, G**; Strungaru, S; Calderon-Moreno, JM; Munteanu, C; Gifu, C; Enache, M; Socoteanu, R; Angelescu, D; Anastasescu, M ; Gartner, M; Balint, I ; Zaharescu, M, 2018 – TUBULAR AND SPHERICAL SiO₂ OBTAINED BY SOL GEL METHOD FOR LIPASE IMMOBILIZATION AND ENZYMATIC ACTIVITY; *Molecules*, 23 (6), DOI: 10.3390/molecules23061362 (IF 3,098)
17. Strungaru, SA; Robea, MA; **Plavan, G**; Todirascu-Ciornea, E; Ciobica, A; Nicoara, M, 2018 – ACUTE EXPOSURE TO METHYLMERCURY CHLORIDE INDUCES FAST CHANGES IN SWIMMING PERFORMANCE, COGNITIVE PROCESSES AND OXIDATIVE STRESS OF ZEBRAFISH (DANIO RERIO) AS REFERENCE MODEL FOR FISH COMMUNITY; *Journal of Trace Elements in Medicine and Biology*, 47:115-123, DOI: 10.1016/j.jtemb.2018.01.019 (IF 3,755)
18. Strungaru, SA; **Plavan, G**; Ciobica, A; Nicoara, M; Robea, MA; Solcan, C; Todirascu-Ciornea, E; Petrovici, A, 2018 – ACUTE EXPOSURE TO GOLD INDUCES FAST CHANGES IN SOCIAL BEHAVIOR AND OXIDATIVE STRESS OF ZEBRAFISH (DANIO RERIO); *Journal of Trace Elements in Medicine and Biology*, 50:249-256, DOI: 10.1016/j.jtemb.2018.07.013 (IF 3,755)
19. Stefan-Adrian STRUNGARU, Mircea NICOARA, Antoneta Dacia PETROAIE and **Gabriel PLAVAN**, 2018 – HEAVY METALS IN COMMON TOBACCO BRANDS FROM LEGAL MARKET AND BLACK MARKET OF IAŞI – ROUMANIA; *Revue Roumaine de Chimie*; 63(10), 903-909, (IF 0,37)
20. Strungaru, SA; Jijie, R; Nicoara, M; **Plavan, G**; Faggio, C, 2019 – MICRO- (NANO) PLASTICS IN FRESHWATER ECOSYSTEMS: ABUNDANCE, TOXICOLOGICAL IMPACT AND QUANTIFICATION METHODOLOGY; *TRAC-Trends in Analytical Chemistry*, 110:116-128; DOI: 10.1016/j.trac.2018.10.025 (IF 7,03)
21. Strungaru S.A., Ciobica A., Nicoara M., **Plavan G.**, Solcan C., Robea M.A., Petrovici A., 2019 - TOXICITY AND CHRONIC EFFECTS OF DELTAMETHRIN EXPOSURE ON ZEBRAFISH (DANIO RERIO) AS A REFERENCE MODEL FOR FRESHWATER FISH COMMUNITY; *Ecotoxicology and Environmental Safety* IF: 4,527, 171: 854-862 DOI: 10.1016/j.ecoenv.2019.01.057
22. Robea, MA; Săvuca, A; Strungaru, SA; Lenzi, C; Grasso, C; **Plavan, G**; Ciobîcă, A; Nicoară, M, 2019 – THE GENERAL BIOLOGICAL RELEVANCE OF THE OXIDATIVE STRESS STATUS IN REPLICATING SOME NEUROPSYCHIATRIC AND DIGESTIVE-RELATED MANIFESTATIONS IN ZEBRAFISH; *Romanian Biotechnological Letters*, DOI: 10.26327/RBL2019.269 (IF 0,321)
23. Lenzi, C; Grasso, C; Nicoara, M; Savuca, A; Ciobica, A; **Plavan, G**; Strungaru, SA, 2019 – INFLUENCE OF ENVIRONMENTAL COLORS AND LONG TERM SEX ISOLATION ON ZEBRAFISH SHOALING BEHAVIOR; *Archives of Biological Sciences*; DOI: 10.2298/ABS190118015L (IF 0,648)
24. Pacioglu Octavian, Strungaru Ştefan-Adrian, Ianovici Nicoleta, Filimon N. Marioara, Sinitean Adrian, Iacob Gabriel, Barabas Henrietta, Acs Andrei, Muntean Hanelore, **Plăvan Gabriel**, Schulz Ralf, Zubrod P. Jochen, Pârvolescu Lucian, 2020 – ECOPHYSIOLOGICAL AND LIFE-HISTORY ADAPTATIONS OF GAMMARUS BALCANICUS (SCHÄFERNA, 1922) IN A SINKING-CAVE STREAM FROM WESTERN CARPATHIANS (ROMANIA), *Zoology*, Vol. 139, 125754, <https://doi.org/10.1016/j.zool.2020.125754> (IF 1,681)
25. El Hajam M., Idrissi Kandri N., **Plavan G-I.**, Halim Harrath A., Mansour L., Boufahja F., Zerouale A., 2020 – PB₂⁺ IONS ADSORPTION ONTO RAW AND CHEMICALLY ACTIVATED DIBETOU SAWDUST: APPLICATION OF EXPERIMENTAL DESIGNS, *Journal of King Saud University - Science*, 32 (3): 2176-2189, doi: <https://doi.org/10.1016/j.jksus.2020.02.027> (IF 3,819)
26. El Hajam Maryam, **Plavan Gabriel-Ionuț**, Idrissi Kandri Noureddine, Dumitru Gabriela, Nicoara Mircea Nicuşor, Zerouale Abdelaziz, Faggio Caterina, 2020 – EVALUATION OF SOFTWOOD AND HARDWOOD SAWMILL WASTES IMPACT ON THE COMMON CARP "CYPRINUS CARPIO" AND ITS AQUATIC ENVIRONMENT: AN OXIDATIVE STRESS STUDY, *Environmental Toxicology and Pharmacology*, vol. 75, 103327, <https://doi.org/10.1016/j.etap.2020.103327> (IF 3,292)
27. Madalina-Andreea Robea, Ioana-Miruna Balmuş, Alin Ciobica, Stefan Strungaru, **Gabriel Plavan**, Lucian Dragos Gorgan, Alexandra Savuca and Mircea Nicoara, 2020 - PARKINSON'S DISEASE-INDUCED ZEBRAFISH MODELS: FOCUSING ON OXIDATIVE STRESS IMPLICATIONS AND SLEEP PROCESSES, *Oxidative Medicine and Cellular Longevity*, Volume 2020, Article ID 1370837, 15 pages, <https://doi.org/10.1155/2020/1370837> (IF 5,076)
28. Madalina Andreea Robea, Roxana Jijie, Mircea Nicoara, **Gabriel Plavan**, Alin Stelian Ciobica, Carmen Solcan, Gilbert Audira, Chung-Der Hsiao, Stefan-Adrian Strungaru, 2020 – VITAMIN C ATTENUATES OXIDATIVE STRESS AND BEHAVIORAL ABNORMALITIES

TRIGGERED BY FIPRONIL AND PYRIPROXYFEN INSECTICIDE CHRONIC EXPOSURE ON ZEBRAFISH JUVENILE, *Antioxidants*, 9(44), 944; <https://doi.org/10.3390/antiox9100944>

29. Ira-Adeline Simionov, Dragos Sebastian Cristea, Stefan-Mihai Petrea, Alina Mogodan, Mircea Nicoara, **Gabriel Plavan**, Emanuel Stefan Baltag, Roxana Jijie, Stefan-Adrian Strungaru, 2020 - PRELIMINARY INVESTIGATION OF LOWER DANUBE POLLUTION CAUSED BY POTENTIALLY TOXIC METALS, *Chemosphere*, 264, 128496, DOI: 10.1016/j.chemosphere.2020.128496
30. Allouche, M; Nasri, A; Harrath, A H; Mansour, L; Alwasel, S; Beyrem, H; **Plăvan, G**; Rohal-Lupher, M; Boufahja, F, 2021 – DO PRESENCE OF GRAY SHRIMP CRANGON CRANGON LARVAE INFLUENCE MEIOBENTHIC FEATURES? ASSESSMENT WITH A FOCUS ON TRAITS OF NEMATODES. *Environmental Science and Pollution Research*, <https://doi.org/10.1007/s11356-020-12069-0>
31. Robea, M.A.; Ciobica, A.; Curpan, A.-S.; **Plavan, G.**; Strungaru, S.; Lefter, R.; Nicoara, M., 2021 – PRELIMINARY RESULTS REGARDING SLEEP IN A ZEBRAFISH MODEL OF AUTISM SPECTRUM DISORDER, *Brain Sci.* 11, 556, <https://doi.org/10.3390/brainsci11050556>
32. Roquia Rizka, Mesfin Alameraw, Mohamed Ali Rawash, Tatjana Juzsakova, Endre Domokos, Amor Hedfi, Mohammed Almalki, Fehmi Boufahja, **Plavan Gabriel**, Hesham M. Shafik, Ákos Rédey, 2021 – DOES LAKE BALATON AFFECTED BY POLLUTION? ASSESSMENT THROUGH SURFACEWATER QUALITY MONITORING BY USING DIFFERENT ASSESSMENT METHODS, *Saudi Journal of Biological Sciences*, 28:5250-5260, <https://doi.org/10.1016/j.sjbs.2021.05.039>
33. Stefan-Adrian Strungaru, Corneliu Mihaita Pohontiu, Mircea Nicoara, Carmen Teodosiu, Emanuel Stefan Baltag, Roxana Jijie, **Gabriel Plavan**, Octavian Pacioglu, Caterina Faggio, 2021 – RESPONSE OF AQUATIC MACROINVERTEBRATES COMMUNITIES TO MULTIPLE ANTHROPOGENIC STRESSORS IN A LOWLAND TRIBUTARY RIVER, *Environmental Toxicology and Pharmacology* 87(801):103687, DOI: 10.1016/j.etap.2021.103687
34. Anastasescu C., Gifu I.C., Negrila C., Socoteanu R., Atkinson I., Calderon-Moreno J.M., Munteanu C., **Plavan G.**, Strungaru S.A., Cheatham B., Malaroiu A.-V., Teodorescu V.S., Anastasescu M., Zaharescu M., Balint I., Lazarescu V., 2021 – MORPHO-STRUCTURAL PROPERTIES OF ZNSE, TIO₂-ZNSE MATERIALS AND ENZYMIC ACTIVITY OF THEIR BIOINORGANIC HYBRIDS WITH LYSOZYME, *Materials Science and Engineering: B*, 272:115350, DOI: 10.1016/j.mseb.2021.115350
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67. Ștefan-Adrian Strungaru, Mircea Nicoară, Marius Andrei Rău, Gabriel Plavan, *How much cadmium, lead and copper is transferred from *Alburnus alburnus* (L.1758) to the parasite *Ligula intestinalis* (L.1758)?*, ECOLOGY AND PROTECTION OF ECOSYSTEMS THE 11TH EDITION, 5th-7th of November, 2015 BACAU, Romania. Comunicare orală
68. Marius Andrei Rău, **Gabriel Plavan**, Stefan-Adrian Strungaru, Mircea Nicoară, Dorel Ureche, *Feeding ecology of some cyprinids in a South-East European River*, ECOLOGY AND PROTECTION OF ECOSYSTEMS THE 11TH EDITION, 5th-7th of November, 2015 BACAU, Romania. **Poster**
69. Stefan-Adrian Strungaru, Mircea Nicoara, Andreea Nohai, Corneliu Florin Gorban, **Gabriel Plavan**, *FROM WATER TO YOUR PLATE! – THE SCIENTIFIC REPORT REGARDING THE MERCURY, ARSENIC, CADMIUM AND LEAD CONTAMINATION OF THE CHEAPEST FISH MEAT FROM IASI CITY – ROMANIA*, Young Researchers in Biosciences, International Symposium 3rd Edition, 25-30 July, 2016, Cluj-Napoca, Romania. **Oral presentation**
70. Balmus Ioana-Miruna, Strungaru Stefan, Ciobica Alin, Lefter Radu, Antioch Iulia, Ababei Dana, **Plavan Gabriel**, Nicoara Mircea, *HEAVY METALS ADDITION IN DRINKING WATER LEADS TO DEPRESSION-LIKE BEHAVIOUR IN ADULT RATS*, International Symposium 3rd Edition, 25-30 July, 2016, Cluj-Napoca, Romania. **Poster**
71. Balmus Ioana-Miruna, Strungaru Stefan, Ciobica Alin, Lefter Radu, Antioch Iulia, Ababei Dana, **Plavan Gabriel**, Nicoara Mircea, *MERCURY AND LEAD –ENRICHED DRINKING WATER CAUSES MEMORY DEFICITS IN RATS*, International Symposium 3rd Edition, 25-30 July, 2016, Cluj-Napoca, Romania. **Poster**
72. Ștefan-Adrian STRUNGARU, Cristian Nicolae CIOBANU, **Gabriel PLĂVAN**, Mircea NICOARĂ, *Trace elements bioconcentration to higher rank fish predator is questionable! Case of study: Biocircuits and toxicokinetics of Cd, Cu and Se in fish fauna from Stânca-Costești Lake, Romania*. The 8th International Zoological Congress of "Grigore Antipa" Museum 16-19 November 2016, Bucharest – Romania. **Oral presentation**
73. Houda Jemili, Olfa Ben Said, Sayda Jaziri, Stefan-Adrian Strungaru, **Gabriel Plavan**, Mircea Nicoara, Olivier Donard, Ezzeddine Mahmoudi, *Impacts des éléments métalliques d'origine sidérurgique sur l'écosystème «la lagune de Bizerte »*. Workshop Recherche Développement INRAP-IPREM Consortium de Recherche & Innovations Analytiques Hammamet Nord, 27 –29 Octobre 2016. **Oral presentation**
74. Stefan-Adrian Strungaru, Ioana - Miruna Balmus, **Gabriel Plavan**, Mircea Nicoara, Alin Ciobica, *Direct exposure to oxytocin results in increased social behavior and mobility performances in a zebrafish animal model*, 13th World Congress of Biological Psychiatry, Copenhagen, Denmark (18-22 June 2017). **Poster**
75. Stefan-Adrian Strungaru, Mircea Nicoara, Madalina Andreea Robea, Elena Todirascu-Ciornea, Gabriel Plavan, *New applications of behavioral survey in the monitoring of pollutants effects upon freshwater fish study case: acute toxicity of methylmercury(II) chloride in zebrafish model*, 9th INTERNATIONAL CONFERENCE ON ENVIRONMENTAL ENGINEERING AND MANAGEMENT, ICEEM/09, Bologna, Italy 6-9 September 2017. **Oral presentation**

Research Grants

- External founds:

- Member:

1. PROJET ESTROM-POP (EPFL-ROUMANIE) IASI, Chemical, Biological and Ecotoxicological Assesment of the Bahlui River, in the North-Eastern Roumania. Case study: Pesticides and Persistent Organic Pollutants (POPS)
2. MIS ETC 1150/07.05.2012 " Resources pilot centre for cross-border preservation of the aquatic biodiversity of Prut River " finaced by Joint Operational Programme Romania-Ucraina-Republic of Moldova 2007-2013
3. CommScie Post Doctoral School of Studies and Research, POSDRU/159/1.5/S/133652, "Alexandru Ioan Cuza" University of Iasi, Title: Attestation of bioaccumulation and bioamplification of heavy metals in aquatic food chains
4. Project COST (European Cooperation in Science and Technology – CA 16224 – European Raptor Biomonitoring Facility (<https://erbfacility.eu/>))

- Internal finds:

- Manager:

1. Grant TD – 471/ 2007: The influence of salmonids aquaculture on benthic macroinvertebrates communities in Izvoru Muntelui – Bicaz reservoir
2. Grant for young researchers of the "Alexandru Ioan Cuza" University of Iasi (GI-2015-11): Assessing the risks and benefits of fish consumption marketed in Iași, based on the highly toxic metals (Hg, Cd, As and Pb) and those beneficial to the human health (Fe, Mn, Zn and Se)

- Member (expert):

1. Grant CEEEX 634: Center of expertise for evaluating sustainable ecosystems (CEXDUREC). Case study: Peri-urban terrestrial and aquatic ecosystems from the basin of Ciric River, northern of the city of Iasi
2. Grant CEEEX M II /2006-2008: Evaluation of poluosensitivity of some bioindicators of water quality by the morpho- histological characteristics
3. Grant CEEEX-M4-C2-4174/2006-2008: Expansion of Potoci Aquatic Ecology and Aquaculture Laboratory for the Assessment of Pollution Level in the Water of Mountain Lakes Due to Salmonids Aquaculture in Floating Farms, in accordance with the Water Framework Directive 60/2000 EEC
4. Natura 2000 - "Biodiversity conservation in Natura 2000 site Rarău-Giumalău through an integrated and participatory management"
5. „Future Imobiliare” SRL – „Identification of suitable habitats for species of amphibians and reptiles and their relocation (moving) from Venetia area in those habitats”
6. Natura 2000 - „Management plans for Natura 2000 sites: ROSPA0049, ROSCI0391, ROSCI0255” - Scientific study of inventory and evaluation of the current state of conservation of species *Unio crassus* and developing of plans and protocols of species monitoring from Natura 2000 site: ROSCI0391 Siretul Mijlociu – Bucecea (expert)
7. Inventory and mapping of populations of invertebrate species of community and national interest that are the object of protection and conservation in the Natura 2000 Rarau - Giumalau site according to contract no. 19/10.03.2015 (expert)
8. Grant PN-II-RU-TE-2014-4-1886 (No.: 120 of 01/10/2015) - Complex study of on relevant administration of oxytocin in some animal models of neuropsychiatric disorders
9. Project (26 PCCDI/1.03.2018) “Integrated and sustainable processes for environmental decontamination, wastewater reuse and waste recovery”, acronim SUSTENVPRO (expert)
10. The financing contract no. 64/26.05.2017 "Elaboration of Management Plans for Protected Areas ROSPA0109 Belcești Accumulations, ROSCI0222 Lower Jijia, Prut, ROSPA0042 Plants of Jijia and Miletin and 2.553. Balta Teiva Visina" (expert)
11. The inventory and provision of information regarding habitats and species of molluscs (mentioned in chapter 3.2 of the standard forms of the site ROSCI0007 Ciucului de Jos Basin, ROSCI0090 Harghita Mădaraș, ROSCI0241 Tinovul Apa Lina – Honcsok, ROSCI0323 Ciucului Mountains, ROSCI0383 Târnava Mare River between Odorheiu Secuiesc and Vânători) requested by the Guidelines on environmental issues that must be analyzed in the Environmental Impact Report and the Adequate Assessment Study for the "Regional Water and Wastewater Infrastructure Development Project from Harghita County" (expert) (SC GREENVIRO SRL Contract)
12. Water quality analysis before vegetation extraction in 2020 under Contract no. 145 / 27.07.2020, following contract no. 61/18.05.2020 regarding the public procurement of services for maintaining favorable conditions for species dependent on wet habitats and water gloss in the Portile de Fier Natural Park for the project "Active measures to protect and conserve biodiversity and the landscape in the area of the Portile de Fier Natural Park" (expert) (Romanian Society of Ornithology contract)

13. Biodiversity monitoring in the four objectives targeted by the project <<CONDUCT FOR INTERCONNECTION OF SNTGN ROMANIA WITH STG REPUBLIC OF MOLDOVA, IN THE DIRECTION OF TODIRESTI VILLAGE, UNGHENI DISTRICT - CHISINAU MUNICIPALITY>>" expert (SC Total Gaz SRL Contract)

14. Biodiversity and water quality monitoring for the "Coastal erosion reduction - phase ii (2014-2020)" project in the pre-construction stage. Monitoring MARINE HABITATS (key expert) (SOCIETY FOR RESEARCH OF BIODIVERSITY AND ENVIRONMENTAL ENGINEERING AON S.R.L. Contract)

15. Marine zoobenthic expert for the Project: The current ecological status of the populations of *Donacilla cornea* and *Donax trunculus* and their habitats (1110, 1140) in the Eforie area, including in the Natura 2000 site ROSCI0197 "Submerged beach Eforie Nord-Eforie Sud" (SC SUBSEA RESEARCH Contract SRL)

16. "Study of ichthyofauna in the sections located near the towns of Corhana and Cotu Vameş, on the Moldova river" (SC Ecoscience Consulting SRL)

Date: 22.03.2023

Signature

Plavan Gabriel-Ionuț

