

Listă Publicații

Lect. Univ. Dr. Bianca-Vanesa AGACHI

Articole publicate în jurnale indexate WoS

1. Iachimov-Datcu, A.D.; Istrate, D.M.; Toboșaru, L.M.; Doczi, G.G.; Bulancea, C.C.; Roman, D.L.; **Agachi, B.V.**; Vulpe, C.B. Integrated Ecotoxicological Assessment of Metal Nitrates in *Lemna minor* Based on Growth Inhibition, Biochemical Responses, and Species Sensitivity Comparison. *Toxics*. **2026**. 14 (9). 742.
2. Vulpe, C. B.; Cosma, C.A.; Pujicic, A.; **Agachi, B. V.**; Isvoran, A.; Iachimov-Datcu, A.D. Aquatic Ecotoxicity Risk Assessment of Difenoconazole and Its Transformation Residues Using Experimental–*In Silico* Integrated Approach. *Agronomy*. **2026**. 16 (8). 774.
3. Elbahnsi, A.; Dragomirescu, C.D.; Palumbo, N.; **Agachi, B.V.**; Declèves, X.; Cisternino, S.; Isvoran, A.; Miteva, M.A. Mapping the inhibition landscape of P-glycoprotein via conformational ensemble docking. *Scientific Reports*. **2026**. 16. 15393.
4. Toader, O.R.; **Agachi, B.V.**; Olariu, O.; Duda-Seiman, C.; Menghiu, G.; Ostafe, V. Rapid and Sensitive Detection of Amino Groups in Chitosan Oligomers Using Aqueous Ninhydrin and McIlvaine Buffer. *Molecules*. **2026**. 31 (7). 1101.
5. Vulpe, C. B.; Iachimov-Datcu, A.D.; Pujicic, A.; **Agachi, B. V.** A Systematic Review on the Toxicology of European Union-Approved Triazole Fungicides in Cell Lines and Mammalian Models. *Journal of Xenobiotics*. **2025**. 15 (6). 208.
6. Pujicic, A.; **Agachi, B. V.**; Vulpe, C. B.; Isvoran, A. Effects of tarragon hydrodistillate and essential oil on aquatic ecosystems. *Toxics*. **2025**. 3 (8). 668.
7. Vulpe, C. B.; Toplicean, I. M.; **Agachi, B. V.**; Datcu, A. D. A review on uses of *Lemna minor*, a beneficial plant for sustainable water treatments, in relation to bioeconomy aspects. *Water*. **2025**. 17 (9). 1400.
8. **Boros, B.-V.**; Roman, D.-L.; Isvoran, A. Evaluation of the aquatic toxicity of several triazole fungicides. *Metabolites*. **2024**. 14. 197.
9. Roman, D. L.; Matica, M. A.; **Boros, B. V.**; Vulpe, C. B.; Isvoran, A. Evaluation of the impact of flutriafol on soil culturable microorganisms and on soil enzymes activity. *Agriculture*. **2024**. 14 (9). 1445.
10. Vulpe, C. B.; **Boros, B. V.**; Matica, M. A.; Menghiu, G.; Roman, D. L.; Dascalu, D.; Kovacevic, R.; Ostafe, V. Hydrochemical and Ecotoxicological Characterisation of Water Samples from Moldova Noua Area, Romania. *Ecological Chemistry and Engineering S* **2023** 30 (3) 357-372.
11. Roman, D. L.; Matica, M. A.; Ciorsac, A.; **Boros, B. V.**; Isvoran, A. The effects of the fungicide myclobutanil on soil enzyme activity. *Agriculture*. **2023**. 13 (10). 1956.
12. **Boros, B. V.**; Dascalu, D.; Ostafe, V.; Isvoran, A. Assessment of the effects of chitosan, chitooligosaccharides and their derivatives on *Lemna minor*. *Molecules*. **2022**. 27 (18). 6123.
13. **Boros, B. V.**; Grau, N. I.; Isvoran, A.; Datcu, A. D.; Ianovici, N.; Ostafe, V. A study of the effects of sodium alginate and sodium carboxymethyl cellulose on the growth of the common duckweed (*Lemna minor* L.). *Journal of the Serbian Chemical Society*. **2022**. 87 (5). 657-667.
14. Stevanović, Z.; Kovačević, R.; Marković, R.; Gardić, V.; Vulpe, B. C.; **Boros, B.**; Menghiu, G. State of the surface waters in cross border region of eastern Serbia and Caras Severin county – Moldova Noua in Romania. *Studia Universitatis Babes-Bolyai, Chemia*. **2021**. 66 (4). 309-328.

15. Copilaș-Ciocianu, D.; **Boros, B. V.**; Šidagytė-Copilas, E. Morphology mirrors trophic niche in a freshwater amphipod community. *Freshwater Biology*. **2021**. 66 (10). 1968-1979.
16. **Boros, B. V.**; Ostafe, V. Evaluation of ecotoxicology assessment methods of nanomaterials and their effects. *Nanomaterials*. **2020**. 10 (4). 610.
17. Datcu, A. D.; Ciobanu, D. G.; **Boros, B. V.**; Ostafe, V.; Ianovici, N. A new approach for phytotoxicity testing using *Allium cepa* bulbs. *Romanian Biotechnological Letters*. **2020**. 25 (2). 1488-1494.
18. Copilaș-Ciocianu, D.; **Boros, B. V.** Contrasting life history strategies in a phylogenetically diverse community of freshwater amphipods (Crustacea: Malacostraca). *Zoology*. **2016**. 119 (1). 21-29.

Articole publicate în jurnale indexate BDI

1. Vulpe, C. B.; Bulancea, C. C.; Doczi, G. G.; Roman, L. D.; **Agachi, B. V.** Ecotoxicological impact of copper and manganese salts on *Lemna minor*: growth inhibition and biochemical alterations. *Annals of West University of Timișoara, series of Biology*. **2025**. 28 (1). 17-26.
2. **Agachi, B. V.**; Vulpe, C. B.; Cosma, C. A.; Istrate, D.; Pujicic, A.; Iachimov-Datcu, A. D. Comparative evaluation of standardized methods for phytotoxicity testing. *Annals of West University of Timișoara, series of Biology*. **2025**. 28 (1). 39-46.
3. Sîrbu, P.; Lionte, A.; Moț, D. L.; Ianuș, R. D.; Vulpe, C. B.; **Agachi, B. V.**; Matica, M. A.; Iachimov-Datcu, A. D. Preliminary investigation on some vegetal hydrogels indices. *Annals of West University of Timișoara, ser. Biology*. **2025** 28 (2). 223-232.
4. Vulpe, C. B.; **Boros, B. V.**; Matica, M. A.; Menghiu, G.; Roman, D. L.; Kovacevic, R.; Timofte, F.; Isvoran, A.; Ostafe, V. The inhibitory effect of surface water, groundwater, sediment, and soil samples potentially polluted from the Moldova Noua area on *Zea mays* L. seed germination. *Annals of West University of Timișoara, ser. Biology*. **2024**. 27 (1). 15-30.
5. Căbuța, M.; Carabă, M. N.; Matica, M. A.; **Boros, B. V.**; Carabă, I. V.; Dumitrescu, G.; Popescu, R. *In vitro* cytotoxic effect of *Boswellia* sp. essential oil. *Annals of West University of Timișoara, ser. Biology*. **2022**. 25 (2). 153-164.
6. **Boros, B. V.**; Roman, D. L.; Ostafe, V.; Markovic, R.; Gardic, V.; Stevanovic, Z.; Isvoran, A. The effects on human health of non-metallic, semimetals and heavy metals compounds generated by mining activities along the Serbian-Romanian border. *Romanian Journal of Ecology & Environmental Chemistry*. **2021**. 3 (1). 61-70.
7. **Boros, B. V.**; Grau, N. I.; Ostafe, V. Preliminary results on the ecotoxic effects of carboxymethyl chitosan to common duckweed (*Lemna minor* L.). *Research Journal of Agricultural Science*. **2019**. 51 (3). 14-20.
8. **Boros, B. V.**; Grau, N. I.; Ostafe, V. Preliminary results on the ecotoxic effects of acetic acid to common duckweed (*Lemna minor* L.). *Research Journal of Agricultural Science*. **2019**. 51 (3). 21-29.
9. **Boros, B. V.**; Menghiu, G.; Matica, A.; Ostafe, V. Use of ninhydrin reaction for estimation of acetylation degree of chitosan. *New Frontiers in Chemistry*. **2016**. 25 (2). 95-105.