

LISTĂ LUCRĂRI PUBLICATE

TITLUL TEZEI DE DOCTORAT:

Studii computaționale asupra aspectelor structurale și funcționale ale unor glicozidaze

ARTICOLE PUBLICATE ÎN REVISTE CATEGORIA A (COTATE ISI) – autor principal

1. B. V. BOROS[†], **D. L. ROMAN**[†], A. ISVORAN[†], *Evaluation of the aquatic toxicity of several triazole fungicides*, *Metabolites*, 14: 197, 2024, **IF: 3,700** († = contribuții egale)
2. **D. L. ROMAN**[†], M. A. MATICA[†], B. V. BOROS, C. B. VULPE, A. ISVORAN, *Evaluation of the impact of flutriafol on soil culturable microorganisms and on soil enzymes activity*, *Agriculture*, 14: 1445, 2024, **IF: 3,600** († = contribuții egale)
3. **D. L. ROMAN**[†], M. A. MATICA[†], A. CIORSAC, B. V. BOROS, A. ISVORAN, *The effects of the fungicide myclobutanil on soil enzyme activity*, *Agriculture*, 13: 1956, 2023, **IF: 3,6** († = contribuții egale)
4. **D. L. ROMAN**, D. I. VOICULESCU, M. A. MATICA, V. BAERLE, M. N. FILIMON, V. OSTAFE, A. ISVORAN, *Assessment of the effects of triticonazole on the soil and on the human health*, *Molecules*, 27: 6554, 2022, **IF: 4,927**
5. **D. L. ROMAN**, D. I. VOICULESCU, V. OSTAFE, A. CIORSAC, A. ISVORAN, *A review of the toxicity of triazole fungicides approved to be used in European Union to the soil and aqueous environment*, *Ovidius University Annals of Chemistry*, 33(2): 113-120, 2022
6. **D. L. ROMAN**, D. I. VOICULESCU, M. FILIP, V. OSTAFE, A. ISVORAN, *Effects of triazole fungicides on soil microbiota and on the activities of enzymes found in soil: a review*, *Agriculture*, 11:893, 2021, **IF: 2,925**
7. **D. L. ROMAN**, V. OSTAFE, A. ISVORAN, *Computational assessment of chito-oligosaccharides interactions with plasma proteins*, *Marine Drugs*, 19: 120, 2021, **IF: 4.073**
8. **D. L. ROMAN**, A. ISVORAN, M. FILIP, V. OSTAFE, M. ZINN, *In silico assessment of pharmacological profile of low molecular weight oligo-hydroxyalkanoates*, *Frontiers in Bioengineering and Biotechnology*, 8: 584010, 2020, **IF: 5.890**

9. **D. L. ROMAN**, V. OSTAFE, A. ISVORAN, *Deeper inside the specificity of lysozyme when degrading chitosan. A structural bioinformatics study*, Journal of Molecular Graphics and Modelling, 100:107676, 2020 **IF: 2.079**
10. D. DASCĂLU, **D. L. ROMAN**, M. FILIP, A. CIORSAC, V. OSTAFE, A. ISVORAN, *Solubility and ADMET profiles of short oligomers of lactic acid*, ADMET & DMPK 8(4): 425-436, 2020 (contribuții egale)
11. **D. L. ROMAN**, M. ROMAN, C. SOM, M. SCHMUTZ, E. HERNANDEZ, P. WICK, T. CASALINI, G. PERALE, V. OSTAFE, A. ISVORAN, *Computational assessment of the pharmacological profiles of degradation products of chitosan*, Frontiers in Bioengineering and Biotechnology, 7:214, 2019, **IF: 3.644**
12. **D. L. ROMAN**, M. ROMAN, H. SLETTA, V. OSTAFE, A. ISVORAN, *Assessment of the properties of chitin deacetylases showing different enzymatic action patterns*, Journal of Molecular Graphics and Modelling 88: 41 - 48, 2019, **IF: 1.889**
13. **D. L. VLĂDOIU**, V. OSTAFE, A. ISVORAN, *Computational analysis of the effects of mutations on catalytic cavity of chitinases A*, Romanian Biotechnological Letters, 22(1): 12290-12296, 2017, **IF 0.321**
14. **D. L. VLĂDOIU**, V. OSTAFE, A. ISVORAN, *Computational analysis of the structural properties of alpha - and beta - galactosidases*, Studia UBB Chemia, LX, 1: 239-251, 2015, **IF 0.305**
15. **D. L. VLĂDOIU**, M. N. FILIMON, V. OSTAFE, A. ISVORAN, *Assessment of pesticides interactions with Bacillus pasteurii urease. A computational study*, Romanian Journal of Physics, 60(3-4): 583–592, 2015, **IF 1.433**
16. **D. L. VLĂDOIU**, M.N. FILIMON, V. OSTAFE, A. ISVORAN, *Effects of herbicides and fungicides on the soil chitinolytic activity. A molecular docking approach*, Ecological Chemistry and Engineering S, 22(3):439-450, 2015, **IF 0.7**

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1. A. PUJIĆIC, **D. L. ROMAN**, A. ISVORAN, *Molecular docking assessment of tarragon essential oil constituents toward OATP1B1 and OATP1B3*, Processes, 14(13): 2207, 2026, **IF: 3,400**

2. A. D. IACHIMOV-DATCU, D. M. ISTRATE, L. M. TOBOȘARU, G. G. DOCZI, C. C. BULANCEA, **D. L. ROMAN**, B. V. AGACHI, C. B. VULPE, *Integrated ecotoxicological assessment of metal nitrates in Lemna minor based on growth inhibition, biochemical responses, and species sensitivity comparison*, *Toxics*, 14: 742, 2026, **IF: 4,9**
3. C. B. VULPE, B. V. BOROS, M. A. MATICA, G. MENGHIU, **D. L. ROMAN**, D. DASCĂLU, R. KOVAČEVIĆ, V. OSTAFE, *Hydrochemical and ecotoxicological characterisation of water samples from Moldova Noua area, Romania*, *Ecological Chemistry and Engineering S*, 30: 357 - 372, 2023, **IF: 1,9**
4. A. MATICA, **D. L. ROMAN**, V. OSTAFE, A. ISVORAN, *A molecular docking study regarding the anti-inflammatory effect of chitooligosaccharides used in wound healing process*, *Journal of the Serbian Chemical Society*, 88(3): 251–265, 2023, **IF: 1,100**
5. M. N. CARABA, **D. L. ROMAN**, I. V. CARABA, A. ISVORAN, *Assessment of the effects of the herbicide acetonitrile and its soil metabolites on soil and aquatic environments*, *Agriculture*, 13: 1226, 2023, **IF: 3,600**
6. D. I. VOICULESCU, **D. L. ROMAN**, V. OSTAFE, A. ISVORAN, *A cheminformatics study regarding the human health risks assessment of the stereoisomers of difenoconazole*, *Molecules*, 27: 4682, 2022, **IF: 4,927**
7. M. N. FILIMON, **D. L. ROMAN**, D. M. BORDEAN, A. ISVORAN, *Impact of the herbicide oxyfluorfen on the activities of some enzymes found in soil and on the populations of soil microorganisms*, *Agronomy* 11: 1702, 2021, **IF: 3,417**
8. A. ISVORAN, **D. L. ROMAN**, D. DASCALU, B. VLAD-OROS, A. CIORSAC, L. PITULICE, R. JONOVIC, Z. STEVANOVIC, V. OSTAFE, *Possible human health effects of heavy metal pollution created by mining operations in the cross-border area of Romania and Serbia: a review*, *Ecological Chemistry and Engineering Society*, 2021, **IF: 1.545**
9. M. N. FILIMON*, **D. L. ROMAN**, I. V. CARABA*, A. ISVORAN, *Assessment of the effect produced by the herbicide S-metolachlor on the activity of some enzymes found in soil*, *Agriculture* 11: 469, 2021, **IF: 2.072**
10. M. ROMAN, **D. L. ROMAN**, V. OSTAFE, A. CIORSAC, A. ISVORAN, *Computational assessment of pharmacokinetics and biological effects of some anabolic and androgen steroids*, *Pharmaceutical Research* 35: 41, 2018, **IF: 3.896**
11. A. ISVORAN, M. LOUET, **D. L. VLĂDOIU**, D. CRACIUN, M. A. LORIOT, B. O. VILLOUTREIX, M. A. MITEVA, *Pharmacogenomics of the cytochrome P450 2C*

family: impacts of amino acid variations on drug metabolism, Drug Discovery Today 22(2), 366-376, 2017, **IF: 6.848**

12. M. N. FILIMON, S. O. VOIA, **D. L. VLĂDOIU**, A. ISVORAN, V. OSTAFE, *Temperature dependent effect of difenoconazole on enzymatic activity from the soil*, Journal of the Serbian Chemical Society 80(9), 1127–1137, 2015, **IF 0.970**

13. M. N. FILIMON, S. O. VOIA, R. POPESCU, D. M. BORDEAN, **D. L. VLĂDOIU**, M. MITULETU, V. OSTAFE, *The effect of chlorsulfuron and MCPB-Na on the enzymatic activity of microorganisms*, Journal of the Serbian Chemical Society 79(9) 1075–1084, 2014, **IF 0.871**

ISI PROCEEDING

1. A. CIORSAC, **D. L. VLĂDOIU**, C. FAGNEN, M. LOUET, M. A. MITEVA, A. ISVORAN, *Assessment of some pesticides interactions with human cytochrome P450: CYP2C8, CYP2C9 and CYP2C19 by molecular docking approach*, AIP Conference Proceedings 9th International Physics Conference of the Balkan Physical Union (BPU-9), 2016, doi: 10.1063/1.4944305

2. **D. L. VLĂDOIU**, M.N. FILIMON, V. OSTAFE, A. ISVORAN, *Computational analysis of difenoconazole interaction with soil chitinases*, Journal of Physics: Conference Series 574 (2015) 012012, doi:10.1088/1742-6596/574/1/012012

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1. **D. L. VLĂDOIU**, C. BEJINAR, D. VOICULESCU, A. KOLOZSVARI, D. DATCU, A. CIORSAC, A. ISVORAN, *Bioinformatics analysis of cytochrome P450 2C family*, Romanian Journal of Biophysics 17(2), 107-124, 2016

2. **D. L. VLĂDOIU**, M.N. FILIMON, V. OSTAFE, A. ISVORAN, *Computational analysis of difenoconazole interaction with soil chitinases*, Journal of Physics: Conference Series ,574: 12012, 2015

3. **D. L. VLĂDOIU**, D. GAVRA, C. CRĂCIUNESCU, A. CIUR, L. ILIEȘI, R. POPESCU, *Effect of herbicides on bacterial communities from soil*, Annals of West University of Timisoara, Series of Chemistry 22(2), 85-90, 2013

4. I. Avram, D. Modra, **D. L. VLĂDOIU**, *Dosing methods of benzophenone*, Annals of West University of Timisoara, Series of Chemistry 22(2), 39-46, 2013
5. **D. L. VLĂDOIU**, V. OSTAFE, M. N. FILIMON, A. CIOSAC, A. ISVORAN, *Computational analysis of surface properties of alpha-galactosidase from Saccharomyces cerevisiae*, Annals of West University of Timisoara, Series of Chemistry 22(2), 1-8, 2013
6. **D. L. VLĂDOIU**, C. BOLCU, T. VLASE, *Thermal degradation study of some local anesthetic drugs*, Annals of West University of Timisoara, Series of Chemistry 21(1), 29-38, 2012

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1. C.B. VULPE, C. C. BULANCEA, G. G. DOCZI, **D. L. ROMAN**, B. V. AGACHI, *Ecotoxicological impact of copper and manganese salts on Lemna minor: Growth inhibition and biochemical alterations* Annals of West University of Timișoara, Series Biology, 1(1): 17-26, 2025
2. C. B. VULPE, B. V. BOROS, M. A. MATICA, G. MENGHIU, **D. L. ROMAN**, R. KOVAČEVIĆ, F. TIMOFTE, A. ISVORAN, V. OSTAFE, *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 Timisoara: Series of Biology, 1(1): 15, 2024
3. B.V. BOROS, **D. L. ROMAN**, V. OSTAFE, R. MARKOVIĆ, V. GARDIĆ, Z. STEVANOVIĆ, A. ISVORAN, *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, 3(1): 61-70, 2021
4. M. ROMAN, **D. L. ROMAN**, V. OSTAFE, A. ISVORAN, *Computational assessment of biological effects of methyl-, ethyl-, propyl- and butyl- parabens*, JSM Bioinformatics, Genomics and Proteomics 3(1): 1029, 2018
5. A. CIORSAC, **D. L. VLĂDOIU**, C. FAGNEN, M. LOUET, M. A. MITEVA, A. ISVORAN, *Assessment of some pesticides interactions with human cytochrome P450: CYP2C8, CYP2C9 and CYP2C19 by molecular docking approach*, AIP Conference Proceedings 9th International Physics Conference of the Balkan Physical Union (BPU-9), 1722: 300001-1–300001-4, 2016

6. G. MENGHIU, A. MURVAY, M. BLAZIC, N. ZELENOVIC, **D. L. VLĂDOIU**, V. OSTAFE, *Transfer of a gene from a bacterial cloning plasmid to an yeast expression plasmid*, Annals of West University of Timisoara, Series of Chemistry 22(3-4), 55-66, 2013
7. N. IANOVICI, I. D. NOVAC, **D. L. VLĂDOIU**, A. BIJAN, A. IONAȘCU, B. SĂLĂȘAN, I. RĂMUȘ, *Biomonitoring of urban habitat quality by anatomical leaf parameters in Timișoara*, Annals of West University of Timișoara, ser. Biology, XII, 73-86, 2009

MONOGRAFII

1. **D. L. VLĂDOIU**, A. ISVORAN, V. OSTAFE, Galactozidaze si Chitinaze, Seria de Monografii de Biochimie Cuantică și Interacții Specifice, Vol. 15, 2016, ISSN 1584-1251
2. **D. L. VLĂDOIU**, C. BOLCU, Anestezice locale, Seria Monografii de Chimie, Vol. 78, Editura Universității de Vest Timișoara, 2012, ISSN 1584-1227

Data,
17.09.2026

Semnătura,

