

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. **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**
2. **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**
3. **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
4. **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**
5. **D. L. ROMAN**, V. OSTAFE, A. ISVORAN, *Computational assessment of chito-oligosaccharides interactions with plasma proteins*, *Marine Drugs*, 19: 120, 2021, **IF: 4.073**
6. **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**
7. **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**

8. 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)
9. **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**
10. **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**
11. **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**
12. **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**
13. **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**
14. **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. 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**

2. 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**
3. M. N. CARABA, **D. L. ROMAN**, I. V. CARABA, A. ISVORAN, Assessment of the effects of the herbicide aclonifen and its soil metabolites on soil and aquatic environments, *Agriculture*, 13: 1226, 2023, **IF: 3,600**
4. 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**
5. 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**
6. 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**
7. 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**
8. 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**
9. 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**
10. 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**
11. 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

ARTICOLE PUBLICATE ÎN REVISTE CATEGORIA B⁺

(INDEXATE BDI) – autor principal

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**, 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
3. 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
4. **D. L. VLĂDOIU**, V. OSTAFE, M. N. FILIMON, A. CIORSAC, 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
5. **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. 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
2. 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
3. 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
4. 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 și 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

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