

ISVORAN Adriana Vetuta – listă articole publicate

Articole Publicate in reviste indexate Web of Science (WoS)

1. Pujicic A, Roman D-L, Isvoran A. Molecular Docking Assessment of Tarragon Essential Oil Constituents Toward OATP1B1 and OATP1B3. *Processes*. 2026; 14(13):2207. <https://doi.org/10.3390/pr14132207> IF=3.6 (Q3)
2. Năstasie AI, Isvoran A. Effects of Amino Acid Point Mutations on the Local Hydrophobicity, Structural Stability, and Conformational Flexibility of P-Glycoprotein. *Biomolecules*. 2026; 16(7):1046. <https://doi.org/10.3390/biom16071046> IF=5.6 (Q1)
3. Elbahnsi A., Dragomirescu C.D., Palumbo N., Agachi B.-V., Declèves X., Cisternin S., Isvoran A., Miteva M.A., Mapping the inhibition landscape of P-glycoprotein via conformational ensemble docking, *Scientific Reports*, 2026, 16, 15393, <https://doi.org/10.1038/s41598-026-46760-y> IF=4.9 (Q1)
4. Vulpe C-B., Cosma C.A., Pujicic A., Agachi B-V., Isvoran A., Iachimov-Datcu A-D., Transformation Residues Using Experimental–In Silico Integrated Approach, *Agronomy* 2026, 16, 774, <https://doi.org/10.3390/agronomy16080774>, IF=4.1 (Q1)
5. Pujicic A, Agachi B-V, Vulpe C-B, Isvoran A. Effects of Tarragon Hydrodistillate and Essential Oil on Aquatic Ecosystems. *Toxics*. 2025; 13(8):668. <https://doi.org/10.3390/toxics13080668>, IF=4,6 (Q1)
6. Pujicic A, Popescu I, Dascalu D, Petreuş DE, Isvoran A. Predictions of the Biological Effects of the Main Components of Tarragon Essential Oil. *International Journal of Molecular Sciences*. 2025; 26(5):1860. <https://doi.org/10.3390/ijms26051860>, IF4.9, Q1
7. 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, 1445. <https://doi.org/10.3390/agriculture14091445> IF 3.3 Q1
8. Petreus, D.E.; Isvoran, A. Fractal Aspects of Human S100 Protein Structures. *Appl. Sci.* 2024, 14, 9540. <https://doi.org/10.3390/app14209540> IF 2.5, Q2
9. Dascalu D., Ciorsac A., Isvoran A., Computational assessment of the toxicological profiles of various chemicals to which humans are exposed. A review, *Ovidius University Annals of Chemistry Volume 35, Number 2*, pp. 83 - 90, 2024, <https://anale-chimie.univ-ovidius.ro/wp-content/uploads/2024/08/Abstract-11-2024.pdf>
10. Bitang A., Bitang V., Grosu V., Ciorsac A. A., **Isvoran A.** ADMET profiles of selected anabolic steroid derivatives, *Journal of the Serbian Chemical Society*, 2024, 89 (3) 367–382 <https://doi.org/10.2298/JSC230803086B>, FI=1.9, Q3
11. Boros B-V, Roman D-L, Isvoran A. Evaluation of the Aquatic Toxicity of Several Triazole Fungicides. *Metabolites*. 2024; 14(4):197. <https://doi.org/10.3390/metabo14040197> Q2, FI=3.4
12. Perrot N., **Isvoran A.**, Nedellec P, Jamin N., Beswick V., Comparative analysis of a POPC bilayer and a DPC micelle comprising an interfacial anchored peptide using all-atom MD simulations, *Ovidius University Annals of Chemistry* 34 (2), 121 - 131, 2023, <https://doi.org/10.2478/auoc-2023-0016> , Q4, IF 0.90
13. Caraba, M.N.; Roman, D.L.; Caraba, I.V.; **Isvoran, A.** Assessment of the Effects of the Herbicide Aclonifen and Its Soil Metabolites on Soil and Aquatic Environments. *Agriculture* 2023, 13, 1226. <https://doi.org/10.3390/agriculture13061226> Q2 IF=3.408, imagine de coperta
14. Dascalu D., Isvoran A, Ianovici N., Predictions of the Biological Effects of Several Acyclic Monoterpenes as Chemical Constituents of Essential Oils Extracted from Plants. *Molecules* 2023, 28, 4640. <https://doi.org/10.3390>, IF=4.927 AIS=0.671, Q2
15. Vulpe, C.B.; Matica, M.A.; Kovacević, R.; Dascalu, D.; Stevanovic, Z.; **Isvoran, A.**; Ostafe, V.; Menghiu, G. Copper Accumulation Efficiency in Different Recombinant Microorganism Strains Available for Bioremediation of Heavy Metal-Polluted Waters. *Int. J. Mol. Sci.* 2023, 24, 7575. <https://doi.org/10.3390/ijms24087575> IF=5.8, AIS=0.71 Q1
16. S. Ceuranu, V. Ostafe, **A. Isvoran**, Impaired local hydrophobicity, structural stability and conformational flexibility due to point mutations in SULT1 family of enzymes, *J. Serb. Chem. Soc.* (2023) Volume 88, Issue 9, Pages: 841-857, <https://doi.org/10.2298/JSC230210022C> Q3, FI=1.1
17. Matica M.A., Roman D. L., Ostafe V., **Isvoran A.**, Deeper inside the use of chitooligosaccharides in wound healing process: A computational approach, *J. Serb. Chem. Soc.* 88(3), 251-265 (2023) <https://doi.org/10.2298/JSC220702081M> Q3, IF=1.1

18. 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, 1956. <https://www.mdpi.com/2077-0472/13/10/1956> **Q1**, IF=3.408
19. Ceauranu S., Ciorsac A., Ostafe V., **Isvoran A.**, Evaluation of the Toxicity Potential of the metabolites of Di-Isononyl Phthalate and of Their Interactions with Members of Family 1 of Sulfotransferases - A Computational Study, *Molecules* 2023, 28, 6748. <https://doi.org/10.3390/molecules28186748> **Q2**, IF=4,2
20. **Isvoran A.**, Peng Y, Ceauranu S, Schmidt L, Nicot AB, Miteva MA. Pharmacogenetics of human sulfotransferases and impact of amino acid exchange on Phase II drug metabolism. *Drug Discov Today*. 2022 Sep 9;27(11):103349. doi: 10.1016/j.drudis.2022.103349, FI 8.369 **Q1**
21. 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, 6123. <https://doi.org/10.3390/molecules27186123> FI 4.927, AIS=0.671, **Q2**
22. Roman, D.L.; Voiculescu, D.I.; Matica, M.A.; Baerle, V.; Filimon, M.N.; Ostafe, V.; **Isvoran, A.** Assessment of the Effects of Triticonazole on Soil and Human Health. *Molecules* 2022, 27(19):6554. doi: 10.3390/molecules27196554.FI 4.927, AIS=0.671, **Q2**
23. Roman DL, VoiculescuDI, Ostafe V, Ciorsac A, **Isvoran A**, 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*, 2022, 33(2):113-120. DOI: 10.2478/auoc-2022-0017, <http://anale-chimie.univ-ovidius.ro/wp-content/uploads/2022/07/Article-17-2022.pdf> FI=0
24. Voiculescu, D.I.; Roman, D.L.; Ostafe, V.; **Isvoran, A.** A Cheminformatics Study Regarding the Human Health Risks Assessment of the Stereoisomers of Difenconazole. *Molecules* 2022, 27, 4682. <https://doi.org/10.3390/molecules27154682>, IF=4.927, AIS=0.671, **Q2**
25. 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.). *J Serb. Chem. Soc.* 87 (5) 657–667 (2022) <https://doi.org/10.2298/JSC210805082B>, IF=1.240, **Q3**
26. Voiculescu DI, Ostafe V., **Isvoran A.**, Computational assessment of the pharmacokinetics and toxicity of the intensive sweeteners, *Farmacia*, 2021, 69(6), 1032-1041, <https://doi.org/10.31925/farmacia.2021.6.3> IF=1.550, AIS=0.092, **Q3**
27. **Isvoran A**, Roman D.L., Dascalu D., Vlad-Oros B., Ciorsac A., Pitulice L., Jonovic R., Stevanovic Z., Ostafe V., Human health effects of heavy metal pollution in the cross-border area of Romania and Serbia: a review, *Ecological Chemistry and Engineering S*, 2021, 28(3); 365-388. <https://doi.org/10.2478/eces-2021-0025>, IF=1.545, AIS=0.203, **Q3**
28. Roman, D.L.; Voiculescu, D.I.; Filip, M.; Ostafe, V.; **Isvoran, A.** Effects of Triazole Fungicides on Soil Microbiota and on the Activities of Enzymes Found in Soil: A Review. *Agriculture* 2021, 11, 893. <https://doi.org/10.3390/agriculture11090893>, IF=2.925, AIS=0.433, **Q1**
29. Filimon M.N., Roman D.L., Caraba I.V., **Isvoran A.** 2021. Assessment of the Effect of Application of the Herbicide S-Metolachlor on the Activity of Some Enzymes Found in Soil, *Agriculture* 11, no. 6: 469. <https://doi.org/10.3390/agriculture11060469>, IF=2.925, AIS=0.433, **Q1**
30. Filimon MN, Roman DL, Bordean DM, **Isvoran A.** Impact of the Herbicide Oxyfluorfen on the Activities of Some Enzymes Found in Soil and on the Populations of Soil Microorganisms. *Agronomy*. 2021; 11(9):1702. <https://doi.org/10.3390/agronomy11091702>, IF=3.417, AIS=0.503, **Q1**
31. Roman DL, Ostafe V, **Isvoran A.** Computational Assessment of Chito-Oligosaccharides Interactions with Plasma Proteins. *Mar Drugs*. 2021 Feb 24;19(3):120. doi: 10.3390/md19030120, IF=6.085 AIS=0.775, **Q1**
32. Roman DL; **Isvoran A**; Filip M; Ostafe V; Zinn M, In silico Assessment of Pharmacological Profile of Low Molecular Weight Oligo-Hydroxyalkanoates, *FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY*, Volume: 8, Article Number: 584010, 2020, DOI: 10.3389/fbioe.2020.584010, FI=6.064 **Q2**
33. Roman D., Ostafe V., **Isvoran A**, Deeper inside the specificity of lysozyme when degrading chitosan. A structural bioinformatics study, *Journal of Molecular Graphics and Modelling*, Volume 100, November 2020, 107676, <https://doi.org/10.1016/j.jmglm.2020.107676>, IF=2.942 **Q2**
34. Dascalu D. Roman D., Filip M., Ciorsac A., Ostafe V. **Isvoran A**, Solubility and ADMET profiles of short oligomers of lactic acid, *ADMET & DMPK*, , 8(4) (2020) 425-436; doi: 10.5599/admet.843.
35. Roman D.L.; Roman M.; Som C.; Schmutz M; Hernandez E; Wick P.; Casalini T; Perale G; Ostafe V; **Isvoran A.**, Computational Assessment of the Pharmacological Profiles of Degradation Products of Chitosan,

FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY, 7, Article Number: 214, 2019, 10.3389/fbioe.2019.00214 **Q1**

36. Craciun D; Dascalu D; **Isvoran A**, Computational assessment of the ADME-Tox profiles and harmful effects of the most common used phthalates on the human health, *STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA*, 64(4):71-92, 2019 doi: 10.24193/subbchem.2019.4.06
37. Gridan I.M., Ciorsac A.A., **Isvoran A.**, Prediction of ADME-Tox properties and toxicological endpoints of triazole fungicides used for cereals protection, *ADMET&DMPK*, 2019, 7(3), 161-173. DOI10.5599/admet.668
38. Roman D.L., Roman M., Sletta H., Ostafe V., **Isvoran A.**, Assessment of the properties of chitin deacetylases showing different enzymatic action patterns, *Journal of Molecular Graphics and Modelling*, 88, 41-48, 2019, DOI10.1016/j.jmgm.2019.01.002 **Q2**
39. Roman M., Roman D.L., Ostafe V., Ciorsac A., **Isvoran A.**, Computational assessment of pharmacokinetics and biological effects of some anabolic and androgenic steroids, *Pharmaceutical Research*, 2018, 35:41, 10.1007/s11095-018-2353-1 **Q1** – imagine de coperta
40. Vladoiu D.L.; Ostafe V; **Isvoran A.**, Computational Analysis of the Effects of Mutations on Catalytic Cavity of Chitinases A. *Romanian Biotechnological Letters*, 22. No. 1/2017
41. Isvoran A, Ciorsac A., Ostafe V., ADME-Tox profiling of some low molecular weight water soluble chitosan derivatives, *ADMET & DMPK* 5(3), 192-200, 2017
42. **Isvoran A.**, Vladoiu D.L., Louet M., Craciun D., Loriot M.-A., Villoutreix B.O., Miteva M.A., Pharmacogenomics of cytochrome P450 2C family: impacts of amino acid variations in drug metabolism, *Drug Discovery Today*, Volume 22(2), 366–376, 2017, **Q1**
43. Pitulice L., Craciun D., Vilaseca E., Madurga S., Pastor I., Francesc M., **Isvoran A**, Fractal dimension of the trajectory of a single particle diffusing in crowded media, *Romanian Journal of Physics*, 61 (7-8), 1276-1286, 2016
44. Ciorsac A.A. , Popescu I., **Isvoran A.**, Synthetic anabolic steroids binding to the human androgen receptor, *Romanian Journal of Physics*, 60 (7-8) 1112-1120 2015
45. Craciun, D.; **Isvoran, A.**, Correlation between the secondary structure elements in the spatial arrangement of the ef-hand calcium binding proteins, *Romanian Journal of Physics*, 60 (7-8) 1103-1111, 2015
46. Vladoiu D.L.; Filimon M.N.; Ostafe V; **Isvoran A.**, Effects of herbicides and fungicides on the soil chitinolytic activity. A molecular docking approach, *Ecological Chemistry and Engineering S-* 22(3) 439-450 2015
47. Vladoiu D.L; Ostafe V.; **Isvoran A.**, Computational analysis of the structural properties of alpha - and beta - galactosidases, *Studia Universitatis Babes-Bolyai Chemia*, 60 (1): 239-251 2015
48. Putz M.V.; Dudas N.A.; **Isvoran A.**, Double Variational Binding-(SMILES) Conformational Analysis by Docking Mechanisms for Anti-HIV Pyrimidine Ligands, *International Journal of Molecular Sciences* 16 (8) 19553-19601, 2015, **Q2**
49. Filimon, M.N., Voia S.O., D.L.Vladoiu, **A. Isvoran**, V. Ostafe., Temperature dependent effect of difenoconazole on enzymatic activity from soil, *Journal of the Serbian Chemical Society*, vol. 80(9), 1127-1137, 2015
50. Vladoiu D.L.; Filimon M.N.; Ostafe V.; **Isvoran A.**, Assessment of pesticides interactions with bacillus pasteurii urease. A computational study, *Romanian Journal of Physics*, 60 (3-4) 583-592 2015
51. **Isvoran A.**; Craciun D.; Ciorsac A.; Perrot N; Beswick V; Nedellec P., Sanson A., Jamin N., A bioinformatics study concerning the structural and functional properties of human caveolin proteins, *Journal of the Serbian Chemical Society*, 79(2) 133-150, 2014
52. Craciun D.; **Isvoran A.**, Computational analysis of surface properties of ef-hand calcium binding proteins, *Romanian Journal of Physics*, 59 (3-4) 339-345 2014
53. Pastor I.; Pitulice L.; Balcells C.; Vilaseca E; Madurga S; **Isvoran A.**, Cascante M; Mas F., Effect of crowding by Dextran in enzymatic reactions, *Biophysical Chemistry*, 185:8-13, 2014, **Q1**
54. Pitulice L.; Vilaseca E.; Pastor I.; Madurga S . Garces JL; **Isvoran A**; Mas F., Monte Carlo simulations of enzymatic reactions in crowded media. Effect of the enzyme-obstacle relative size, *Mathematical Biosciences*, 251, 72-82 2014, **Q2**
55. Craciun D.; Vlad-Oros B.; Filimon N.; Ostafe V, **Isvoran A.**, A computational approach to structural properties of glycoside hydrolase family 4 from bacteria, *Acta Biochimica Polonica* 60(4) 553-564 2013

56. **Isvoran A.**; Craciun D.; Martiny V.; Sperandio O., Miteva MA., Computational analysis of protein-protein interfaces involving an alpha helix: insights for terphenyl-like molecules binding, *BMC Pharmacology & Toxicology* 14, Article Number: 31 2013
57. Vlădoiu DL, Filimon MN, Ostafe V, **Isvoran A.**, Computational analysis of difenoconazole interaction with soil chitinases, *Journal of Physics: Conference Series* Volume 574 01, 2012
58. Craciun D.; Pitulice L.; Ciorsac A.; **Isvoran A.**, Proteins surface roughness analysis. Comparison of crystallographic and nmr structures, *Romanian Reports in Physics* 64 (1) 116-126, 2012
59. Ciorsac, A.; Ostafe, V.; **Isvoran A.**, A computational study of the surface properties of the human and bacterial chitotriosidase, *Studia Universitatis Babes-Bolyai Chemia*, 57 (3)213-222 2012
60. Ciorsac A.; Craciun D.; Ostafe V.; **Isvoran A.**, Nonlinear correlations in the hydrophobicity and average flexibility along the glycolytic enzymes sequences, *Chaos Solitons & Fractals*, 44 (4-5): 191-197, 2011
61. **Isvoran A.**; Badel A.; Craescu C.T.; Miron S., Miteva M., Exploring NMR ensembles of calcium binding proteins: Perspectives to design inhibitors of protein-protein interactions, *BMC Structural Biology* 11 Article Number: 24 2011
62. Ciorsac, A.; Craciun, D.; Ostafe, V.; **Isvoran A.**, A bioinformatics characterization of the human glycogen phosphorylase surface binding regions, *Romanian Biotechnological Letters*, 16(5) 6473-6480 2011
63. Vilaseca, E; Pastor, I; **Isvoran, A** ; Madurga, S ; Garces, JL ; Mas, F., Diffusion in macromolecular crowded media: Monte Carlo simulation of obstructed diffusion vs. FRAP experiments, *Theoretical Chemistry Accounts*, 128(4-6), 795-805, 2011
64. Beswick, V.; **Isvoran, A.**; Nedellec, P.; Sanson, A. ; Jamin, N., Membrane Interface Composition Drives the Structure and the Tilt of the Single Transmembrane Helix Protein PMP1: MD Studies, *Biophysical Journal* 100 (7) 1660-1667, 2011
65. Vilaseca E ; **Isvoran A**; Madurga S; Pastor I; Garces JL; Mas F. New insights into diffusion in 3D crowded media by Monte Carlo simulations: effect of size, mobility and spatial distribution of obstacles, *Physical Chemistry Chemical Physics*, 13(16) 7396-7407, 2011
66. Craciun D.; **Isvoran A.**; Avram N. M., Analysis of long range correlation of hydrophilicity and flexibility along hydrolases proteins chains, *Romanian Journal of Physics*, 56 (1-2) 185-194, 2011
67. Ciorsac A.; **Isvoran A.**; Ostafe V. The antropometric and fitness characteristics of the football players competing in the Romanian junior championship, *Papers on Anthropology*, 19, 59-68 2010
68. Craciun D., **Isvoran A.**, Avram N.M., Long Range Correlation of Hydrophilicity and Flexibility Along the Hemoglobin Chain, *AIP Conf. Proc.* 1262 173, 2010
69. Craciun D.; **Isvoran A.**; Reisz R. D.; Avram N.M., Distinct fractal characteristics of monomer and multimer proteins, *Fractals - Complex Geometry Patterns and Scaling in Nature and Society* 18 (2) 207-214 2010
70. **Isvoran, A**; Pitulice, L; Craescu, CT ; Chiriac, A., Fractal aspects of calcium binding protein structures, *Chaos Solitons & Fractals*, 35 (5) 960-966, 2009
71. Pitulice L; **Isvoran A**; Craescu CT ; Chiriac A., Scaling properties of the radius of gyration and surface area for EF-hand calcium binding proteins, *Chaos Solitons & Fractals*, 40 (2) 684-690, 2009
72. Craciun D.; **Isvoran A.**, Teaching molecular biology using computational tools and tacking into account the learning styles of students, *Romanian Biotechnological Letters*, 14 (4) 4567-4574 2009
73. Craciun D.; **Isvoran, A.**, Avram, N.M., Long range correlation of hydrophilicity and flexibility along the calcium binding protein chains, *Physica A-Statistical Mechanics and its Applications* 388 (21) 4609-4618, 2009
74. Craciun D., **Isvoran A.**, Avram N.M., Computational Study on Hemoglobin Protein Family, *AIP Conf. Proc.* 1131, 160, 2009
75. Craciun D.; **Isvoran A.**; Avram N. M., Long-Range Correlation in Atomic Vibration of Chicken Lysozyme Backbone, *Acta Physica Polonica A* 116 (4) 684-686, 2009
76. Craciun D.; **Isvoran A.**; Avram N. M., Does fractal characteristics of hemoglobin change from one organism to another? *Romanian Journal of Physics* 54 (5-6) 569-575, 2009
77. Craciun D.; **Isvoran A.**; Avram N. M., Statistical scaling laws reflecting structural properties of the hydrolases, *Romanian Journal of Physics* 54 (5-6) 449-455 2009
78. Mouawad, L.; **Isvoran, A.**; Quiniou, E.; Craescu CT., What determines the degree of compactness of a calcium-binding protein? *FEBS Journal* 276(4) 1082-1093, 2009
79. **Isvoran, A**; Vilaseca, E; Unipan, L ; Garces, JL ; Mas, F., Computational study of diffusion in cellular two-dimensional crowded media modeled as mixtures of mobile and immobile obstacles, *Revue Roumaine de Chimie*, 2008, 53(5), 415-422

80. Pitulice, L; **Isvoran A**; Chiriac, A., Structural features of proteins as reflected by statistical scaling laws, Journal of the Serbian Chemical Society, 73(8-9): 805-813, 2008
81. **Isvoran A**; Unipan L ; Craciun D ; Morariu V., Analysis of long-range correlation in sequences data of proteins, Journal of the Serbian Chemical Society, 72 (4), 383-392 2007
82. **Isvoran A.**; Craescu, C. T.; Alexov, E., Electrostatic control of the overall shape of calmodulin: numerical calculations European Biophysics Journal with Biophysics Letters, 36 (3): 225-237, 2007
83. **Isvoran A.**, Vilaseca E., Garces J.L., Unipan L., Mas F., Simulation of Diffusion in Two-Dimensional Crowded Media, AIP Conf. Proc. 899, 469, 2007
84. Morariu V.V.; **Isvoran A.**; Zainea O., A non-linear approach to the structure-mobility relationship in protein main chains, Chaos Solitons & Fractals, 32 (4)1305-1315, 2007
85. **Isvoran A**, Vilaseca E ; Ortega F Cascante M; Mas F., About implementing a Monte Carlo simulation algorithm for enzymatic reactions in crowded media, Journal of the Serbian Chemical Society, 71 (1), 75-86, 2006
86. **Isvoran A.**; Nedellec P.; Beswick V.; Sanson A., Study of the electrostatic interactions between peptides and lipids at the membrane interface by molecular dynamics simulation, Revue Roumaine de Chimie, 51(10): 1019-1024, 2006
87. **Isvoran A.**, Describing some properties of adenylat kinase using fractal concepts, Chaos Solitons & Fractals, 19(1): 141-145, 2004
88. **Isvoran A**; Sanson A., Simulation of the molecular dynamics of a dipeptide in aqueous environment, Revue Roumaine de Chimie, 48(4) 331-335, 2003
89. **Isvoran A.** Licz A ; Unipan L., Morariu VV. Determination of the fractal dimension of the lysozyme backbone of three different organisms, Chaos Solitons& Fractals, 12 (4) 757-760, 2001
90. **Isvoran A**, Morariu, VV., Comparison of the behavior of sea hare myoglobin when it forms two different complexes, Chaos Solitons& Fractals, 12(6) 1041-1045, 2001
91. **Isvoran A**, Morariu VV., Analysis of the nonlinear behavior of ascaris trypsin inhibitor from NMR data, Chaos Solitons& Fractals, 12(8) 1485-1488, 2001
92. **Isvoran A**, Licz A, Morariu VV., Determination of the fractal dimension of the ascaris trypsin inhibitor backbone, Revue Roumaine de Chimie, 46 (8), 857-859, 2001
93. Morariu VV; Coza A; Chis MA; **Isvoran A.**, Morariu LC., Scaling in cognition, Fractals - Complex Geometry Patterns and Scaling in Nature and Society , 9 (4) 379-391, 2001

ISI Proccedings papers

1. Ciorsac A, Vlădoiu DL, Fagnen C, Louet M, Miteva MA, **Isvoran A**, Assessment of some pesticides interactions with human cytochrome P450: CYP2C8, CYP2C9 and CYP2C19 by molecular docking approach, AIP Conference Proceedings, 1722, 300001 (2016)
2. Ciorsac A, Dascălu D, Spiridon OB, Sinitean A, Petrovici M, Parvulescu L, **Isvoran A**, Thematic excursions used as alternative strategies in the teaching and learning of the natural sciences at the university 1722, AIP Conference Proceedings, 310004 (2016)
3. **Isvoran A.**, Computational study concerning the effect of some pesticides on the *Proteus Mirabilis* catalase activity1722, AIP Conference Proceedings, 310004 (2016)
4. Filimon M.N., Ostafe V., **Isvoran A.**, Optimization of extraction of difenoconazole from soil for UPLC-MS analysis, in Mendez-Vilas A. (Ed.) Microbes in the spotlight: recent progress in the understanding of beneficial and harmful microorganisms, Brown Walker Press, Boca Raton, Florida, USA, 2016, 106-110
5. Craciun D.; Modra D.; **Isvoran A.** ADME-Tox Profiles of Some Food Additives and Pesticides, AIP Conference Proceedings, 1694 Article Number: UNSP 040007, 2015
6. Filimon MN ; Voia SO ; **Isvoran A**; Popescu R ; Ostafe, V, Study of the possible indirect effect of difenoconazole on soil microorganisms, NANO, BIO AND GREEN - TECHNOLOGIES FOR A SUSTAINABLE FUTURE, VOL I (SGEM 2015)
7. Craciun D.; **Isvoran A.**; Avram N. M.Long Range Correlation of Hydrophilicity and Flexibility Along the Hemoglobin Chain, AIP Conference Proceedings 1262 173-177, 2010
8. Craciun D.; **Isvoran A.**; Avram N. M.Computational Study on Hemoglobin Protein Family, Proceedings of the Physics Conference TIM-08 Book Series: AIP Conference Proceedings 1131, 160-163, 2009

Papers in journals indexed in international databases

1. Pujicic A, Isvoran A, Databases for plants that are used in computational biology. *Artemisia vulgaris* case study, Annals of West University of Timișoara, ser. Biology, 2024, vol. 27 (1), pp.31-50
2. Ciorsac A, Filip M., Isvoran A., Prediction of water solubility of the low molecular weigh oligomers of polyhydroxyalkanoates, *New Frontiers in Chemistry*, 2021, 30(1):25-34
3. Vasile Ostafe, Zoran Stepanovic, Cornel Popovici Sturza, Adriana Isvoran, A knowledge base as a monitoring system of environmental state in mining operations areas of the cross-border region of Romania and Serbia, *New Frontiers in Chemistry*, 2021, vol 30(1), 1-7
4. Bianca-Vanesa BOROS, Diana-Larisa ROMAN, Vasile OSTAFE, Radmila MARKOVIĆ, Vojka GARDIĆ, Zoran STEVANOVIĆ, Adriana 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*, 2021, 3(1), 61-70.
5. D. Dascalu, B. Vlad-Oros, D. Isac, A. Isvoran, Teaching Structural Physical Chemistry Using Adequate Strategies, *Jurnal Plus Education*, 2020, XXV(1):130-145
6. 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*, 2018, 3(1): 1029
7. Dascălu D., Isac D., Pahomi A., Isvoran A., Stability and aromaticity of some conjugated systems by quantum analysis at the hückel level, *Romanian Journal of Biophysics*, 2018, 28:1–2, 59–75.
8. Vlădoiu D.L., Bejinar C., Kolozsvari A., Dateu D., Voiculescu D., Isvoran A, Bioinformatics analysis of the cytochrome P450 2C family, *Romanian Journal of Biophysics*, 26 (2) 2016
9. Isvoran A., Tulbure C., Specific uses of internet resurces for teaching biology, *Annals of West University of Timișoara, ser. Biology*, 2016, vol. 19 (2), pp.125-131
10. Ciorsac A., Crista N., Isvoran A., Teaching bioinformatics: online molecular docking, *New Front. Chem*, 24 (2) 101-107, 2015
11. Lighezan L., Neagu A., Isvoran A., Using bioinformatics to compare the rof2 (fkbp65) protein from arabidopsis thaliana to its human homolog FKBP52, *ROMANIAN J. BIOPHYS.*, Vol. 24, No. 3, P. 157–173, 2015
12. C. Balcells, I. Pastor, L. Pitulice, C. Hernández, M. Via, J. L. Garcés, S.Madurga, E. Vilaseca, A. Isvoran, M. Cascante, F. Mas Macromolecular Crowding upon in-vivo-Like Enzyme-Kinetics: Effect of Enzyme-Obstacle Size Ratio, *New Front. Chem*, 2015, 24(1), 3-16
13. Mircov V.D, Fericeanu M., Ciorsac A., Isvoran A., A non-random variation of monthly average temperatures and precipitation quantities in Romania during the period 2009-2012, *Annales of West University of Timisoara. Series of Biology*, 17(1) 33-37, 2014
14. Vlădoiu D. L., Ostafe V., Filimon N., Ciosac A., Isvoran A., 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
15. L. Pitulice, I.Pastor, E. Vilaseca, S. Madurga, A. Isvoran, M. Cascante F. Mas, Influence of macromolecular crowding on the oxidation of ABTS by hydrogen peroxide catalyzed by HRPJ *Biocatal Biotransformation* 2013, 2:1
16. Craciun D., Ciorsac A., Isvoran A., Prediction of transmembrane regions of caveolins correlates with their cellular location and known interactions, *Annals of WestUniversiry of Timisoara, Series of Chemistry*, 21 (2), 29-36, 2012
17. Craciun D., Ciorsac A., Isvoran A., Computational study of the surface properties of animal and bacterial aldolases, *Annals of the West University of Timișoara, Series of Chemistry*, vol 20 (1), 19-26, 2011
18. Ciorsac A., Isvoran A., Ostafe V., A bioinformatics study of fosfofructokinase, *Annals of West University of Timisoara, Series of Chemistry*, , 19(1), pp 1-8, 2010
19. Ciorsac A., Isvoran A., Ostafe V., Hematological and biochemical parameters in Romanian junior football players, *Annals of West University of Timisoara, Series of Chemistry*, 19(1), pp 33-40, 2010

20. Craciun D., Pitulice L., Isvoran A. , Fractal features of proteins structure and dynamics. Part II – Dynamics., International Journal of Chemical Modeling (IJCHEMO) Vol. 2, Issue 1, 2009
21. Craciun D., Pitulice L., Isvoran A. , Fractal features of proteins structure and dynamics. Part I – Structure., International Journal of Chemical Modeling (IJCHEMO) Vol. 2, Issue 1, 2009
22. Grecu D., Isvoran A., Computational study of the troponin C protein, Annals of West University of Timisoara, Series of Chemistry, 18(1) 31-42, 2009
23. Isvoran A, Virtual libraries for biochemistry, molecular biophysics and bioinformatics, Annals of West University of Timisoara, Series of Chemistry, 18(1) 1-6, 2009
24. Isvoran A., Vilaseca E., Garcez JL, Unipan L, Mas F., Nonclassical kinetics for enzymatic reactions in two dimensional media, Romanian Biophysical Journal, Vol. 18, No. 4, 283–291, 2008
25. Tirnovan A., Isvoran A. , A bioinformatic study of human Xeroderma Pigmentosum group A (XPA) protein, Annals of West University of Timișoara, Series of Chemistry, 17 (1), 103-108, 2008
26. Petre C., Isvoran A., Prediction of disordered regions of the Xeroderma Pigmentosum group C protein, Annals of West University of Timișoara, Series of Chemistry, 2008, 17 (1), 9-14
27. Pantea S., Craciun D. , Isvoran A. , Bioinformatic study of calmodulin, Annals of West University of Timișoara, Series of Chemistry, 17 (1), 15-20, 2008
28. Arbănași M. , Isvoran A. , Anomalous diffusion in two dimensional crowded media. A Monte Carlo study., Annals of West University of Timișoara, Series of Chemistry, 17 (1), 21-26, 2008
29. Craciun D., Isvoran A., Avram N., Non-linear analysis of reversible Michaelis-Menten enzymatic reactions in crowded media, Annals of West University of Timișoara, Series of Chemistry, 17, 1-8, 2008
30. Isvoran A., Vilaseca E, Unipan L., Garces JL, Mas F., Monte Carlo simulation of single-particle diffusion in two-dimensional and three-dimensional crowded media Romanian Journal of Biophysics, 2007, 17(1), 21-32
31. Ioanes M., Pitulice L., Isvoran A., A fractal approach of the influence of physical factors on chicken lysozyme structure, Annals of West University of Timișoara, Series of Chemistry, 16, 9-14, 2007
32. A Isvoran, L. Unipan, Fractal kinetics in enzymatic reactions in three dimensional crowded media. A computational study, Annals of West University of Timișoara, Series of Chemistry, 16(3), 121-126, 2007
33. Isvoran A., Vilaseca E., Unipan L., Garces J.L., Mas F., Monte Carlo study of the influence of lattice's sizes and obstacle's geometry on diffusion process in cellular two-dimensional cellular crowded media, Annals of West University of Timișoara, Series of Chemistry, 16, 83-90, 2007
34. Balita A., Decus V., Berei E., Margineanu V., Pascu G., Szollossi A., Isvoran A., About using fractal concepts in classroom, Annals of West University of Timișoara, Series of Chemistry, 16, 15-18, 2007
35. Petre C., Unipan L., Craescu C., Isvoran A., Study of the interactions between calcium ions and calcium-binding loops of human calmodulin by molecular dynamics simulation, Annals of West University of Timișoara, Series of Chemistry, 15 (2), 209-216, 2006
36. Popet L., Lacrămă A.M., Isvoran A., Ostafe V The Effect of Microwave Radiation on Catalase Extracted from Taraxacum Roots", Annals of West University of Timișoara, Series of Chemistry, 15 (1), 45-54, 2006
37. Isvoran A., Analysis of the structural characteristics of the E-F hand calcium binding proteins, Annals of West University of Timișoara, Series of Chemistry, 14(2), 117-124, 2005
38. Isvoran A, Analysis of the effects of coupling parameters choice on the molecular dynamics simulation at constant pressure of membranes, Annals of West University of Timișoara, series Chemistry, 13(1), 21-26, 2004
39. Isvoran A, Simulation of the molecular dynamics of a peptide in vacuum, Studia Universitatis Babes-Bolyai, Special Issue 2, 515-518, 2003
40. Isvoran A., Unipan L., Nagy I., Using the structural data banks for studying the dynamics of proteins, Annals of West University of Timișoara, series Chemistry, 12(3), 1621-1628, 2003
41. Isvoran A., Search for evidence of the chaotic behavior of haemoglobin upon oxygen binding, International Journal of Chaos Theory and Applications, 7(1-2), 27-32, 2002

42. Isvoran A., Constructing a model for performing simulation of the molecular dynamics of a peptide in vacuum, *Romanian Journal of Physics*, vol. 47, no. 5-6, 2002
43. Isvoran A., Unipan L., Morariu V.V., Chaos in enzymatic activity of egg white lysozyme, *Romanian Biophysical Journal*, 11(1-2), 2001, 51-56
44. Isvoran A., Evidence of the nonlinear behavior of myoglobine upon azide binding, *International Journal of Chaos Theory and Applications* (ISSN 1453-1437), 6(2), 49-56, 2001
45. Isvoran A., Dolha Daniela, Morariu V.V., Attractor control of the stability of lysozymes, *International Journal of Chaos Theory and Applications*, (ISSN 1453-1437) vol. 5(1), 51 –61, 2000
46. Isvoran A., Morariu V.V., Negreanu-Maior A., Attractor control of the changes in the molecular vibrations of human lysozyme upon substrate binding, *International Journal of Chaos Theory and Applications*, (ISSN 1453-1437) , 4(1), 13-22, 1999
47. Isvoran A., Analysis of the appearance of the ordered dynamic structure in lysozyme, *Balkan Physics Letter* (ISSN 1301-8329), 1998, vol 6 nr.2, pg. 141-145

Books

1. Isvoran A., Erdei M., Ghid metodic pentru profesorul de fizica, Ed. Politehnica Timisoara, 2001
2. Isvoran A., Morariu V.V., Analiza și modelarea structurii și dinamicii proteinelor, Ed. Mirton Timișoara, 2002
3. Isvoran A., Unipan L., Celula vie – mediu aglomerat și structură fractală. Vol. I Simularea difuziei în medii aglomerate, Ed. Universității de Vest din Timișoara, 2006
4. Isvoran A., Celula vie – mediu aglomerat și structură fractală. Vol. II Simularea reacțiilor biochimice în medii aglomerate, Ed. Universității de Vest din Timișoara, 2007
5. Crăciun D., Isvoran A., Metode computaționale utilizate în analiza structurii și dinamicii proteinelor, Ed. Universității de Vest din Timișoara, ISBN 978-973-125-348-0, 2011
6. Isvoran A., Ghid practic de bioinformatica proteinelor, Ed. Universității de Vest din Timișoara, 2012

Books chapters

1. **A. Isvoran**, L. Pitulice, E. Vilaseca, I. Pastor, S. Madurga, F. Mas, Macromolecular Crowding, chapter 20, in *New Frontiers in Nanochemistry: Concepts, Theories, and Trends, Volume 3: Sustainable Nanochemistry*, Mihai V. PUTZ Ed., Apple Academic Press, Inc, 2020 <https://www.appleacademicpress.com/new-frontiers-in-nanochemistry-concepts-theories-and-trends-volume-3-sustainable-nanochemistry-/9781771887793>
2. **A. Isvoran**, Protein surface, chapter 24, in *New Frontiers in Nanochemistry: Concepts, Theories, and Trends, Volume 3: Sustainable Nanochemistry*, Mihai V. PUTZ Ed., Apple Academic Press, Inc, 2020 <https://www.appleacademicpress.com/new-frontiers-in-nanochemistry-concepts-theories-and-trends-volume-3-sustainable-nanochemistry-/9781771887793>
3. P. M. Blanco, S. Madurga, **A. Isvoran**, L. Pitulice, F. Mas, Fractal dimension, chapter 10, in *New Frontiers in Nanochemistry: Concepts, Theories, and Trends: Volume 1: Structural Nanochemistry*, Mihai V. PUTZ Ed., Apple Academic Press, Inc, 2020 <https://www.appleacademicpress.com/new-frontiers-in-nanochemistry-concepts-theories-and-trends-volume-1-structural-nanochemistry-/9781771887779>
4. F. Mas, L. Pitulice, S. Madurga, J.L. Garcés, E. Vilaseca, **A. Isvoran**, Fractal kinetics, chapter 17, in *Nanochemistry: Concepts, Theories, and Trends: Volume 1: Structural Nanochemistry*, Mihai V. PUTZ Ed., Apple Academic Press, Inc, 2020 <https://www.appleacademicpress.com/new-frontiers-in-nanochemistry-concepts-theories-and-trends-volume-1-structural-nanochemistry-/9781771887779>
5. **Isvoran A.**, Online Molecular Docking Resources, in *Molecular Docking Based Drug Design and Discovery, Advances in Medical Technologies and Clinical Practice (AMTCP) Book Series*, Siavoush Dastmalchi Ed, IGI Global, Hershey, USA, 2016, 360-379
6. **Isvoran A.**, Web-based Computational Tools Used in Protein Surface Analysis and Characterization. Applications for Protein–Protein and Protein–Ligand Interactions, in *Exotic Properties of Carbon Nanomatter*, Mihai V. Putz and Ottorino Ori Eds, Volume 8 of the series Carbon Materials: Chemistry and Physics, Springer, 2015 203-227
7. **Isvoran A.**, Biofizica auzului, in *Biofizica/Biophysics* vol 44, Vincze J. Ed., NDP Budapesta, 2012 , 133-142.

Text books

1. Isvoran A., Termodinamica si fizica moleculara prin probleme, intrebari si teste grila, Tipografia UVT, 1995
2. Isvoran A., Dolha D., Metodica predarii fizicii prin aplicatii si exemple, Tipografia UVT, 1997
3. Isvoran A., Lucrări practice de biofizică, Tipografia UVT, 2000
4. Isvoran A., Introducere in biofizică, Ed Mirton, 2007, ISBN 978-973-52-0212-5, 140 pagini
5. Isvoran A., Fizică pentru chimiști, Tipografia UVT, 2007, 110 pagini
6. Isvoran A., Simulare, modelare si analiza neliniara in biofizica moleculara, Ed. Mirton, 2002
7. Isvoran A., Culegere de probleme de termodinamica si fizica moleculara, Ed. Mirton Timisoara, 2003
8. Isvoran A., Teste grila de fizica generala si biofizica, Tipografia UVT, 2004
9. Raduly S., Isvoran A., Manual de lucrari practice de chimie fizica si biofizica, Tipografia UVT, 2004
10. Isvoran A., Chiriac A., Probleme practice de biofizică, Ed. Mirton Timisoara, 2006
11. Bunoiu M., Isvoran A., Susan Resiga D., Fizica moleculara si caldura – lucrari de laborator, Ed UVT, 2010