

## Domeniul CHIMIE

### Articole în reviste cotate ISI – 2010

1. AVRAM S, DUDA-SEIMAN D, **DUDA-SEIMAN C**, BORCAN F, MIHAILESCU D. Predicted binding rate of New Cephalosporin antibiotics by a 3D-QSAR: a new approach. Monatshefte fur Chemie/ Chemical Monthly. 2010;141: 589-597
2. **BIZEREA-SPIRIDON O**, Cd (II)-selective potentiometric sensor with multilaye solid membrane based on selenide and its applications, Journal of Optoelectronics and Advanced Materials, 2010, 12(11): 2226-2235
3. 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 (2010) 59-68.
4. DRAGOMIRESCU, M., VINTILĂ, T., JURCOANE, S., **PREDA, G.**, Sol-Gel entrapment of *Bacillus licheniformis* CMIT 1.33 proteases in silica-gels, R. Biotechnol. Letters, (2010), 15 (2), 5125-5133.
5. ENACHE, C., FĂGĂDAR-COSMA, E., ARMEANU, I., DUDAS, Z., IANASI, C., VASILE, M., **DASCĂLU, D.**, Hybrid Silica-Metalloporphyrin Nanomaterials Exhibiting Intensive Absorption of Light in the Red-Region, Digest Journal of Nanomaterials and Biostructures, 5 (2010) 683-689.
6. FULIAŞ, A., **VLASE, G.**, **VLASE, T.**, TIRA, B., TIȚA, D., DOCA, N. Thermal study of cefoperazone monohydrate (2010) Revue Roumaine de Chimie, 55 (8), pp. 481-486
7. FULIAŞ, A., **VLASE, T.**, **VLASE, G.**, DOCA, N. Thermal behaviour of cephalexin in different mixtures (2010) Journal of Thermal Analysis and Calorimetry, 99 (3), pp. 987-992. DOI: 10.1007/s10973-010-0708- x
8. FULIAS, A., **VLASE, T.**, **VLASE, G.**, SZABADAI, Z., RUSU, G., BANDUR, G., TITA, D., DOCA, N. Thermoanalytical study of cefadroxil and its mixtures with different excipients (2010) Revista de Chimie, 61 (12), pp. 1202-1206.
9. GHIJU S., **PUTZ M.V. (\*)**, CHIRIAC A. On Specific Vs. Non-Specific Enzymic Inter-Activity in Acute Myocardial Infarction. Digest Journal of Nanomaterials and Biostructures. 5(2) (2010) 567-574. [http://www.chalcogen.ro/567\\_Giju.pdf](http://www.chalcogen.ro/567_Giju.pdf)
10. **ILIA, G.**, DREHE, M., Grafted 2-chloroethylphosphonic acid on inorganic supports used as flame retardant for unsaturated polyester resins, FIRE AND MATERIALS, 34 (2010) 271-283. DOI: 10.1002/fam.1022.
11. **ILIA, G.**, DREHE, M., **VLASE, T.**, **VLASE, G.**, MACARIE, L., DOCA, N. Thermal behavior of titania grafted with phosphonic acids under non-isothermal conditions (2010) Journal of Thermal Analysis and Calorimetry, 100 (3), pp. 917-923. Cited 1 time. DOI: 10.1007/s10973-009-0381-0
12. ILIESCU, S., GROZAV, I., FUNAR-TIMOFEI, S., PLESU, N., POPA, A., **ILIA, G.**, Optimization of synthesis parameters in interfacial polycondensation using design of experiments, POLYMER BULLETIN, 64 (2010) 303-314. DOI: 10.1007/s00289-009-0212-2.
13. MACARIE, L., **ILIA, G.**, Poly(vinylphosphonic acid) and its derivatives, PROGRESS IN POLYMER SCIENCE, 35 (2010) 1078-1092. DOI: 10.1016/j.progpolymsci.2010.04.001.

14. MINCEA M., SERBAN S., RUSU I., TALPOŞ T., **OSTAFE V.**, Development and application of ultra performance liquid chromatography method to the quantification of the biotransformation of methyl paraben in Eisenia foetida, *Chinese Journal of Chemistry*, 28 (2010) 320-324. (<https://doi.org/10.1002/cjoc.201090074>)
15. **PUTZ M.V.** Chemical Hardness: Quantum Observable? *Studia Universitatis Babeş-Bolyai - Seria Chemia*. 55 (2) –Tom I (2010) 47 – 50. <http://chem.ubbcluj.ro/~studiachemia/docs/Chemia22010t1.pdf>
16. **PUTZ M.V.** Compactness Aromaticity of Atoms in Molecules. *International Journal of Molecular Sciences*. 11(4) (2010) 1269-1310; (Special Issue: Atoms in Molecules and in Nanostructures (M.V. Putz, editor). <http://www.mdpi.com/1422-0067/11/4/1269>
17. **PUTZ M.V.** On Absolute Aromaticity within Electronegativity and Chemical Hardness Reactivity Pictures. *MATCH Communications in Mathematical and in Computer Chemistry* 64(2) (2010) 391-418. <http://www.pmf.kg.ac.rs/match/content64n2.htm>
18. **PUTZ M.V.** On Heisenberg Uncertainty Relationship, Its Extension, and the Quantum Issue of Wave-Particle Duality. *International Journal of Molecular Sciences*. 11(10) (2010) 4124-4139; DOI: 10.3390/ijms11104124. (Special Issue: Advances in Molecular Electronic Structure Calculations; Eduardo A. Castro, guest editor); <http://www.mdpi.com/1422-0067/11/10/4124>
19. **PUTZ M.V.** The Bondons: The Quantum Particles of the Chemical Bond. *International Journal of Molecular Sciences*. 11(11) (2010) 4227-4256; DOI: 10.3390/ijms11114227. (Special Issue: Atoms in Molecules and in Nanostructures; M.V. Putz, editor). <http://www.mdpi.com/1422-0067/11/11/4227>
20. ȘTEFĂNESCU, M., STOIA, M., ȘTEFĂNESCU, O., DAVIDESCU, C., **VLASE, G.**, SFÎRLOAGĂ, P. Synthesis and characterization of poly(vinyl alcohol)/ethylene glycol /silica hybrids. Thermal analysis and ft-ir study (2010) *Revue Roumaine de Chimie*, 55 (1), pp. 17-23.
21. TARKO L., **PUTZ M.V.** (\*) On Electronegativity and Chemical Hardness Relationships with Aromaticity *Journal of Mathematical Chemistry*. 47(1) (2010) 487-495; <http://www.springerlink.com/content/f81757qmh225m8v1/>
22. TIȚA, D., FULIAŞ, A., TIȚA, B., **VLASE, G.**, **VLASE, T.**, DOCA, N. Thermal behaviour of active compounds versus pharmaceutical compounds for some benzodiazepines (2010) *Revue Roumaine de Chimie*, 55 (11-12), pp. 1047-1052.
23. VLASCICI, D., PRUNEANU, S., OLENIC, L., POGACEAN, F., **OSTAFE, V.**, **CHIRIAC, V.**, PICA, E. M., BOLUNDUT, L. C., NICA, L., FAGADAR-COSMA, E., Manganese (III) Porphyrin-based Potentiometric Sensors for Diclofenac Assay in Pharmaceutical Preparations; *Sensors*, 10 (2010) 8850-8864. (<http://dx.doi.org/10.3390/s101008850>)
24. **VLASE, T.**, **BOLCU, C.**, **VLASE, G.**, MOGOŞ, A., DOCA, N. Thermooxidative stabilization of a MDI: Polyol polyisocyanate (2010) *Journal of Thermal Analysis and Calorimetry*, 99 (3), pp. 973-979. DOI: 10.1007/s10973-009-0536-z
25. **VLASE, T.**, **VLASE, G.**, DOCA, N., ILIESCU, S., **ILIA, G.** Thermo-oxidative degradation of polymers containing phosphorus in the main chain (2010) *High Performance Polymers*, 22 (7), pp. 863-875. DOI: 10.1177/0954008310364423

### **Articole în reviste indexate BDI/ISI Proceeding - 2010**

1. AVRAM S, BUIU C, DUDA-SEIMAN D, **DUDA-SEIMAN C**, MIHAILESCU D. 3D-QSAR Design of New Escitalopram Derivatives for the treatment of Major Depressive Disorders. *Scientia Pharmaceutica*. 2010; 78:233-248.
2. **BIZEREA SPIRIDON O, PREDA G, VLAD-OROS B**, VINTILĂ M, Studies Regarding the Membranous Support of a Glucose Biosensor Based on GOx, *Scientific Papers: Animal Science and Biotechnologies*, 2010, 43(1): 354-357, ISSN 1221-5287, E-ISSN 1841-9364;
3. **BIZEREA-SPIRIDON O., PREDA G., VLAD-OROS B.**, VINTILĂ M., The optimal composition of a PVA membrane used as support for a glucose biosensor based on Gox, *Annals of West University of Timisoara, Ser.Chemistry*, 2010, 19(1), 97 - 104.
4. BORCAN F., FILIMON N, **BOLCU C**, Modeling the Poliurethane Structure for a Better Antibiotics Absortion, *Int. J. Chem. Model.*, 2 (4), 445-450 (2010);
5. BULZ D., MINCEA M., LUPSA I.R., **OSTAFE V.**, Determination of Phthalates Esters in Liquid Samples using UPLC-PDA, *Annals of West University of Timisoara - Series of Chemistry*, 19 (2010) 113-120
6. CHIRIAC V.A., POPOVICI H., BIRIESCU C.A, Pollution with heavy metals of channel Bega and rain water collected from a roof from Timișoara, *Ann. of West. of Timișoara ser. Chem Vol.*, 19 (4) (2010), 1-4.
7. CIORSAC A., ISVORAN A., **OSTAFE V.**, A bioinformatics study of fosfofructokinase, *Annals of West University of Timisoara, Series of Chemistry*, 19 (2010) 1-8.
8. 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 (2010) 33-40.
9. CRACIUN D., **PITULICE L.**, ISVORAN A. Fractal features of proteins structure and dynamics. Part I – Structure. (2010) *International Journal of Chemical Modeling (IJCHEMO)*, 2(1): 33-48
10. CRACIUN D., **PITULICE L.**, ISVORAN A. Fractal features of proteins structure and dynamics. Part II – Dynamics. (2010), *International Journal of Chemical Modeling (IJCHEMO)* 2(1):49-66
11. CRACIUN A., PREDA E., MINCEA M., **OSTAFE V.**, Development of an UPLC Method for the Separation of Phenols from Residual Waters, *Annals of West University of Timisoara - Series of Chemistry*, 19 (2010) 105-112.
12. DRAGOMIRESCU M, VINTILA T, **PREDA G**, LUCA AM, CROITORU V, Microbial Cellulases Immobilized in/on Porous Supports, *Scientific Papers: Animal Science and Biotechnologies*, 2010, 43 (1), 271-274
13. GOGONEA M..A., **CIUCANU I.**, Identification of n-alkyl benzenes and 1-dibromo-n-alkyl from new correlation of isothermal gas chromatographic retention time with number of carbon atoms. *Ann. West Univ. Tim., ser. chem.*, 19(1)(2010) 61-70.
14. GROZA R.C., **CIUCANU I**, Derivatization of aspirin for gas chromatographic analysis. *Ann. West Univ. Tim., ser. chem.*, 19(1)(2010) 61-70.
15. VOICAN I, **BOLCU C**, URSICA L, MICLEA LM, Preparation of Stable Water in Oil and in WaterMultiple Emulsions through the use of Hidroxyethylcellulose and Carbopol 940 in the External Aqueous Phase, *Analele Universității de Vest Timișoara, ser. chem.*, 19(1) , 1 - 18 (2010)