

Lista de lucrări

I) Lucrări științifice publicate în reviste indexate ISI

1. Dragomirescu, M., **Oros, B.**, Preda, G., Peter, F., Influenta parametrilor de mediu asupra alcalazei imobilizate prin legare fizica si entrapare in gel de silice obtinut prin tehnica sol-gel, *Revista de Chimie*, **2006**, 57(6), 610 - 614.
2. **Vlad-Oros, B.**, Dragomirescu, M., Preda, G., Peter, F., Chiriac, A., Characterization of silica-based biomaterials containing microbial amylases, *Revue Roumaine de Chimie*, **2007**, 52(11), 1083 - 1087.
3. Dudas, Z., **Oros, B.**, Preda, G., Dragomirescu, M., Halasz, J., Chiriac, A., Comparison between different hybrid organic/inorganic bioceramics containing microbial hydrolases, synthesized via the sol-gel process, *Journal of Biotechnology*, **2007**, 131(2S), S111 - S112.
4. Dragomirescu, M., Vintila, T., Dudas, Z., **Vlad-Oros, B.**, Preda, G., Biocatalysts entrapped in silica gels, *Journal of Biotechnology*, **2007**, 131(2S), S112.
5. **Vlad-Oros, B.**, Dudas, Z., Preda, G., Dragomirescu, M., Chiriac, A., Synthesis and properties of different sol-gel matrices containing bacterial alpha-amylase, *Revista de Chimie*, **2009**, 60(8), 794-796.
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9. Negulescu A., Patrulea V., Mincea M. M., Ionascu C., **Vlad-Oros B. A.**, Ostafe V., Adapting the Reducing Sugars Method with Dinitrosalicylic Acid to Microtiter Plates and Microwave Heating, *J. Braz. Chem. Soc.*, **2012**, 23(12), 2176-2182.
10. Craciun D., **Vlad-Oros B.**, Ostafe V., Isvoran A., A computational approach of structural properties of GH4 enzymes family from bacteria, *Acta Biochimica Polonica*, **2013**, 60(4), 553–564.
11. **Vlad-Oros B.**, Dascalu D., Dudas Z., Popovici H., Preda G., Ostafe V., Equilibrium and kinetics studies regarding the adsorption of copper(II) ions by various types of chitosan beads, *Digest Journal of Nanomaterials and Biostructures*, **2013**, 8(3), 917 – 927.

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13. 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.

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18. Dragomirescu M., Vintila T., **Vlad-Oros B.**, Preda G., The kinetics of the reactions catalyzed by an enzymatic preparation produced by a *Bacillus licheniformis* strain, *Lucrări științifice Zootehnie și Biotehnologii*, **2007**, 40 (1), 85 – 90.
19. 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.
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21. Bizerea Spiridon, O., Pitulice, L., Dascălu, D., **Vlad-Oros, B.**, Ionel, R., Ostafe, V., Todorovic, L., Copper removal from waste water by adsorption on biozheolith, *Annals of West University of Timisoara, Ser.Chemistry*, **2011**, 20(4), 45 - 58.
22. Bizerea Spiridon, O., Dascălu, D., Pitulice, L., **Vlad-Oros, B.**, Ionel, R., Milosevic, N., Gardic, V., Influence of biomass hydration on the adsorption of copper from mine wastewater on spirulina, *Annals of West University of Timisoara, Ser.Chemistry*, **2011**, 20(4), 67 - 80.

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23. **Vlad-Oros, B.**, Dragomirescu, M., Preda, G., Savii, C., Chiriac, A., Bioorganically doped sol-gel materials containing amyloglucosidase activity, *Acta Periodica Technologica*, **2006**, 37, 179 - 186.

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(II) Publicații apărute în lucrări ale principalelor conferințe de specialitate

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2. Dudás Z., **Vlad-Oros B.**, Halász J., Preda G., Dragomirescu M., Chiriac A., Surface characterizations of silica xerogels with protease activity, The Sixth Students' Meeting, SM-2005, School of Ceramics, December 1-2, 2005, Novi Sad, Serbia and Montenegro, p. 107-110.

3. **Vlad-Oros, B.**, Stan, I., Dragomirescu, M., Preda, G., Chiriac, A., Microbial amylases entrapped in hybrid organic-inorganic silica matrices, *Lucrările celui de-al VIII-lea Simpozion International Tinerii si Cercetarea Multidisciplinara*, Timisoara, 11-12 Mai 2006, Timisoara, Romania, p. 686 - 691.

4. Dragomirescu M., Preda G., Vintilă T., **Vlad-Oros B.**, Bordean D., The effect of immobilization on activity and stability of a protease preparation obtained by an indigenous strain, *Bacillus licheniformis* B40, 12th International Conference on Physical Chemistry, Abstract Book, 6-8 September 2006, Bucharest, p. 253

5. Bizerea-Spiridon, O., **Vlad-Oros, B.**, Preda, G., Chiriac, A., Obtaining and characterization of a biosensor based on biodegradable membrane used for glucose assay, ECOMAT 2008, 25-26 Septembrie 2008, Bucuresti, Romania, p. 110 - 113.

6. **Vlad-Oros, B.**, Stan, I., Dudas, Z., Dragomirescu, M., Preda, G., Chiriac, A., Studies on the activity of microbial amylases entrapped in hybrid organic/inorganic silica materials, 1st European Chemistry Congress, 27-31 August 2006, Budapest, Hungary, p. 68.

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8. **Vlad-Oros, B.**, Dragomirescu, M., Preda, G., Chiriac, A., Eficienta ca biocatalizatori a amilazelor microbiene immobilizate in matrice sol-gel hibride organice/anorganice, Book of Abstracts, XXIXth Romanian Chemistry Conference, 4-6 October 2006, Calimanesti-Caciulata, Valcea, p. 42.
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10. **Vlad-Oros, B.**, Dragomirescu, M., Dudas, Z., Preda, G., Chiriac, A., Influenta metodei de immobilizare asupra activitatii amilazelor entrapate în matrici hibride organice-anorganice pe baza de retea de silice, A 5-a Editie a Seminarului National de Nanostiinta si Nanotehnologie, 2 Martie 2006, p. 4.
11. **Vlad-Oros, B.**, Dudas, Z., Preda, G., Chiriac, A., Properties of silica based biomaterials containing microbial hydrolases, The 10th International Symposium for Students in Chemistry, Timisoara, 8 December 2005, p. 17 - 19.
12. **Vlad-Oros, B.**, Dudas, Z., Preda, G., Dragomirescu, M., Savii, C., Chiriac, A., Microbial amylases immobilization in sol-gel matrices and characterization of their enzymatic properties, Zilele Academice Timisene, Ed.a X-a, Secțiunea Science and Engineering of Oxide Materials and Nano Materials, 24-25 Mai 2007, Timisoara, Romania, p. 30.
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23. Dragomirescu, M., Vintila, T., **Vlad-Oros, B.**, Preda, G., Microbial enzymatic preparations entrapped in silica gels, International Conference on Chemistry and Chemical Engineering, Timisoara, 28-30 Mai 2008.

III) Cărți

1. Putz, M.V., Putz, A.M., Chiriac, A., **Vlad-Oros, B.**, "Elemente de cinetică chimică omogenă, enzimatică clasică și logistică", Editura Mirton, Timișoara (2008), pag. 300, ISBN: 978-973-52-0469-3

IV) Capitole de cărți

1. Preda, G., Bizerea Spiridon, O., **Vlad-Oros, B.**, „Sol-gel technology in enzymatic electrochemical biosensors for clinical analysis” in *Biosensors for Health, Environment and Biosecurity* (Serra, P.A. (ed.)), cap. 17, p. 363-388, InTech, Rijeka, Croatia (2011), ISBN 978-953-307-443-6.