

LISTĂ DE LUCRĂRI ȘTIINȚIFICE

Lector Dr. Grădinaru Vasile Robert

Publicații în reviste cotate ISI

1. Ciugureanu, C., Murarescu, E. D., **Grădinaru, R.** (2000) Synthesis and study of some 2-imino-1,3-thiazetidine derivatives, *Rev. Chim.-Bucharest*, **51(8)**, 615-620; IF – 0,810.
2. Drochioiu, G., Oniscu, C., **Grădinaru, R.**, Murariu. (2004) The biostructural theory versus the chemiosmotic theory, *Roum. Biotechnol. Lett.*, **9(2)**, 1579-1586; IF – 0,404.
3. **Grădinaru, R.**, Murariu, M., Dragan, E.-S., Drochioiu (2007) G., Protein determination based on the buret absorbion in the UV range and copper binding to peptide, *Roum. Biotechnol. Lett.*, **12(3)**, 3235; IF – 0,404.
4. **Grădinaru, R.**, Schowen, R. & Ghisla, S. (2007) Solvent isotope effects in reactions of human medium-chain acyl-CoA dehydrogenase active site mutants, *Biochemistry*, 46(9): 2497-2509; IF – 3,015.
5. **Grădinaru, R.**, Valu, S.O., Postolache, S., Pavel, C.C., Sandu, I., Popa, K. (2009) On the influence of ETS-10 porosity and surface properties in retention of some nanoions and nanomolecules, *Environ. Eng. Manag. J.*, **8**, 901-905; IF – 1,065.
6. **Grădinaru, R.**, Luca, A.-M., Cretescu, I., Danac, R. (2010) Fluorescent Conjugates ; pH stability, dye-DNA interaction and biological activity, *Rev. Chim.-Bucharest*, **61 (9)**, 903-906.; IF – 0,810
7. Costin, D. T., **Grădinaru, R.**, Nemtoi, G. and Popa, K. (2010) Insight on the $^{204}\text{Tl}^+$ -*Escherichia Coli* system, *Rev. Roum. Chim.*, **55 (2)**, 153-156; IF – 0,311.
8. Hansen, S. H., Andersen, M. L., Cornett, C., **Grădinaru, R.**, Grunnet, N. (2010) A role for taurine in mitochondrial function, *J. Biomed. Sci.*, **17 (Suppl)**: S23, 1-8; IF – 2,763.
9. Murariu, M., **Grădinaru, R. V.**, Mihai, M., Jurcoane, S., Drochioiu, G. (2011) Unexpected effect of nickel complexes of some histidine-containing peptides on *Escherichia coli*, *Roum. Biotechnol. Lett.*, **16(3)**, 6242-6246; IF – 0,404.
10. Vlad, S., Ciobanu, C., **Grădinaru, R.V.**, Grădinaru, L. M., Nistor, A. (2011) Antibacterial evaluation of some polyurethane membranes modified by zinc oxide nanoparticles, *Dig. J. Nanomater. Bios.*, **6(3)**, 921-930; IF – 0,945.
11. Ciobanu, C., Grădinaru, L. M., **Grădinaru, R.V.**, Drobota, M., Vlad, S (2011) Bovine serum albumin adsorbion onto UV-activated green polyurethane surfaces, *Dig. J. Nanomater. Bios.*, **6(4)**, 1751-1761; IF – 0,945.
12. **Grădinaru, R.**, Ionas, A., Pui, A., Zbancioc, G., Drochioiu, G. (2011) Interaction of inorganic mercury with CoA-SH and acyl-CoAs, *Biometals*, **24**, 1115-1121; IF – 2,503.
13. Cozaciuc, I. A., Postolachi, R., **Grădinaru, R.** and Pui, A. (2012) Synthesis and characterization of uranyl (VI) chiral Schiff-base complexes derived from salicylaldehyde and L-aminoacids, *J. Coord. Chem.*, **65(12)**, 2170-2181; IF – 2,012.
14. Ciobanu, C., Grădinaru, L. M., **Grădinaru, R.V.**, Vlad, S (2012) Water soluble elastin adsorbion onto UV-activated green polyurethane surfaces, *Dig. J. Nanomater. Bios.*, **7(1)**, 97-106; IF – 0,945.
15. Copcia, V.-E., **Grădinaru, R.**, Mihai, G.-D., Bilba, N., Sandu, I. (2012) Antibacterial Activity of Nanosized ZnO Hosted in Microporous Clinoptilolite and Mesoporous Silica SBA-15 Matrices, *Rev. Chim.-Bucharest*, **63 (11)**, 1124-1131; IF – 0,810.

16. Zaharia, M., Jurcoane, S., Maftai, D., Pui, A., Dumitras-Hutanu, C. A. and **Gradinaru, R.** (2013) Yeast biodegradation of some pesticide dinitrophenols, *Rom. Biotech. Lett.*, **18 (2)**, 8144-8151; IF – 0,404.
17. Hăbășescu, L., Zbancioc, G., **Grădinaru, R.**, Murariu, M., Ferencz, L., Drochioiu, G. (2013) Copper binding to SG and EE peptides as a function of pH. Implication for understanding amyloidogenesis, *Rev. Roum. Chim.*, **58(6)**, 501-509 (IF – 0.311)
18. Zaharia, M., Maftai, D., Dumitras-Hutanu, C. A., Pui, A., Lagobo, Z.C., Pintilie, O. and **Gradinaru, R.** (2013) Biodegradation of pesticides DINOCAP and DNOC by yeast suspensions in a batch system, *Rev. Chim. (Bucharest)*, **64 (4)**, 388-392; IF – 0,810.
19. Tanase, C., Volf, I., Vintu, S., **Gradinaru, R.** and Popa, V. I. (2013) Potential applications of wastes from energy and forestry industry in plant tissue culture, *Cellulose Chem. Technol.*, **47 (7-8)**, 553-563; IF – 0,675.
20. Zaharia, M., Borhan, A., Gherca, D., Pui, A., **Gradinaru, R.**, Zbancioc, G. and Drochioiu, G. (2014) Letter: Study on the mechanism of ferrite-induced dinitrophenol photodegradation, *Eur. J. Mass Spectrom.* **20**, 193–197; IF – 1,0.
21. Asaftei, I., Alexandroaei, M., Bîrsă, L., Luca, A. C., Grădinaru, R., Lungu, N. C. (2014) The action of penicillinase with attenuated activity on a Penicillin G substrate, *Rev. Chim. (Bucharest)*, **65 (8)**, 903-906; IF – 0,810.
22. Murariu, M., Stoica, I., Gradinaru, R., Drochioiu, G., Mangalagiu, I. (2014) Glutathione-based silver nanoparticles with dual biomedical activity, *Rev. Roum. Chim.*, **59 (10)**, 867-; IF – 0,311
23. Zaharia, M., Gradinaru, R. (2015) Interaction of Human Hemoglobin with Methotrexate, *Journal of Applied Spectroscopy*, **82(2)**, 285-292; IF – 0,476.
24. Andries, C., Manea, M., Drochioiu, G. and **Gradinaru, V.R.** (2015) New insights into coenzyme A interaction with mercury ions provided by mass spectrometric and circular dichroism spectroscopic approaches, *Eur. J. Mass Spectrom.*, **21**, 97–102; IF – 1,0.
25. **Gradinaru, R.V.** and Apell, H. J. (2015) Probing the Extracellular Access Channel of the Na,K-ATPase, *Biochemistry*, **54 (15)**, 2508-2519; IF – 3,015.
26. Ion, L., Ciobanu, C.I., Murariu, M., **Gradinaru, R.V.** and Drochioiu, G. (2016) SDS-induced peptide conformational changes: From Triglycyl-glycine to Amyloid- β Oligomers Associated with Alzheimer's Disease, *Int J Pept Res Ther*, **22**, 45-55; IF – 0,905.
27. Drochioiu, G. Ciobanu, C.I., Băncilă, S., Ion, L., Petre A.B., Andrieș, C., **Grădinaru, R.V.** and Murariu, M. (2016), Ultrasound-based protein determination in maize seeds, *Ultrasonics Sonochemistry*, **29**, 93-103; IF – 4,321.
28. Surleva, A., Zaharia, M., Pintilie, O., Sandu, I., Tudorachi, L. and **Gradinaru, V.R.** (2016) Improved ninhydrin based reagent for spectrophotometric determination of ppb levels of cyanide, *Environ Forensics*, **17(1)**, 48-58; IF – 0.562.
29. Zaharia, M., Tudorachi, L., Pintilie, O., Drochioiu, C., **Gradinaru, R.** and Murariu, M. (2016) Banned dinitrophenols still trigger both legal and forensic issues, *Environ Forensics*, **17(1)**, 120-130; IF – 0,562.
30. Ciobanu, C.I., Ștefănescu, R., Niculaua, M., Teslaru, T., **Grădinaru, R.** and Drochioiu, G. (2016), Letter: Mass spectrometric evidence for iron binding to the neuroprotective peptide NAP and its Cys5 mutant, *Eur. J. Mass Spectrom.* **22**, 97-104; IF – 1,0.
31. Bancila, S., Pintilie, O. **Gradinaru, R.**, Sandu, I., Drochioiu, G., Balan, G. G. (2016) Interaction of heavy metal ions with glycyl-L-tryptophan in the presence of amyloid- β peptides, *Rev. Chim. (Bucharest)*, **67 (5)**, 974-977; IF – 0,810.

Publicații în reviste BDI

1. Nicolaescu, T., Simion, C., Barabula, D., Dorohoi, D. **Gradinaru, R.** (1998) Synthesis and physico-chemical characterization of some 4-styryl-coumarin derivatives, *Analele Stiintifice ale Universitatii Al I Cuza din Iași, Chimie*, **6**, 23-28.
2. Sunel, V., Basu, C., Ciugureanu, C., **Gradinaru, R.** (1999) Syntheses of new antimetabolites with α -amino acids support, *Analele Stiintifice ale Universitatii Al I Cuza din Iași, Chimie*, **7(2)**, 335-340.
3. **Gradinaru, R.**, Damoc, N. E., Gradinaru, L., Mangalagiu, I., Drochioiu, G. (2004) UV Protein Assay Based on the Biuret Reaction, *Analele Stiintifice ale Universitatii Al I Cuza din Iași, Chimie*, **12**, 5-10.
4. **Gradinaru, R.**, Drochioiu, G., Gradinaru, L., Ghisla, S. (2007), Human medium-chain acyl-CoA dehydrogenase. Charge transfer complexes studies with E99G-, E376Q- and E99G/E376Q-MCAD mutants, *Analele Stiintifice ale Universitatii Al I Cuza din Iași, Chimie*, **15 (1)**, 106-110.
5. Drochioiu, G., Adochitei A., Habasescu, L., Zbancioc, G., Pui, A., **Gradinaru, R.**, Rusu, E. (2009) CD and FT-IR study of some adducts of albumin with toxic dinitrophenyl derivatives. *Bull. Polytechnic Inst. Iasi*, **55 (4)**, 23-28.
6. Zbancioc, G., Moldoveanu, C., **Gradinaru, R.**, Drochioiu, G., Olteanu, G., Mangalagiu, I. (2011) The metabolism of drugs / toxics in the body. Case study: BZP, *International Journal of Criminal Investigation*, **1(1)**, 17-24.
7. Vițelaru, C., Dascălu, A., **Gradinaru, V.R.**, Popa, K. and Borcia, C. (2011) Liquid Scintillation Counting Applied for Studying the Influence of Microorganisms on the U(IV) to U(VI) Oxidation Process, *Acta Chemica Iași*, **19**, 117-123.
8. Drochioiu, G., Sandu, I., **Gradinaru, R.**, Zbancioc, G., Mangalagiu, I. (2011) Ninhydrin-based forensic investigations: II. Cyanide analytical toxicology, *International Journal of Criminal Investigation*, **1(4)**, 213-226.
9. Zbancioc, G., **Gradinaru, R.**, Drochioiu, G., Mangalagiu, I. (2011) Nicotine and tobacco alkaloids: A GC-MS approach, *International Journal of Criminal Investigation*, **2(1)**, 3-10.
10. Surleva, A., Zaharia, M., Ion, L., **Gradinaru, R.**, Drochioiu, G., Mangalagiu, I. (2013) Ninhydrin-based spectrophotometric assays of trace cyanide, *Acta Chemica Iași*, **21**, 57-70.
11. Zaharia, M., Pintilie, O., Cosma, A., **Gradinaru, R.**, Drochioiu, G., Murariu, M., Sandu, I. (2014) Toxicitatea și utilitatea compușilor dinitrofenolici ca medicament, *Revista Tehnoscopia*, **2 (11)**, 12-17.

Articole științifice publicate în volumele conferințelor

1. Drochioiu, G., Jurcoane, S., Murariu, M., Danac, R., **Grădinaru, R.** (2008) Biodegradation of some dinitrophenyl derivatives used as herbicides and metabolic inhibitors, European BioRemediation Conference, **4**, 1-3.
2. Drochioiu, G., Manea, M., Murariu, M., Popa, K., **Grădinaru, R.**, Przybylski, M. (2008) Metal-induced changes of amyloid proteins associated with neurodegenerative diseases, Metal ions in biology and medicine, **10**, 664-669.
3. **Grădinaru, R.**, Kieweg, V., Kuchler, B., Ghisla, S. (2002) On the role of the 376-functional group in catalysis by medium chain acyl-CoA-dehydrogenase, Flavins and Flavoproteins, **14**, 193-198.