

## PERSONAL INFORMATION

## Vasile Robert Gradinaru



 Building A, Faculty of Chemistry, Biochemistry, Alexandru Ioan Cuza University (AICU), Carol I Av., no.11, 700506 Iasi, Romania



 <https://biochimiero.wordpress.com/>

Sex Male | Date of birth [REDACTED] | Nationality Romanian

## WORK EXPERIENCE

Oct 2016 – Present

**Associate Professor**

Faculty of Chemistry, Biochemistry, AICU, Carol I Av., no.11, 700506 Iasi, Romania

Teaching activities on Biochemistry, Enzymology and Toxicology

Supervising activities with bachelor, Master and PhD students

Research activities as part of the on-going research projects.

Oct 2007 – Oct 2016

**Lecturer**

Faculty of Chemistry, Biochemistry, AICU, Carol I Av., no.11, 700506 Iasi, Romania

Responsible for the practical work for the Biochemistry and Nucleic acids and proteins Courses.

Research activities as part of the on-going research projects.

Jan 2007 – Feb 2007

**PostDoc Researcher**

Department of Biochemistry and Molecular Biology, University of Freiburg, Germany

Experimental research, cloning and affinity chromatography of truncated FKBP22 chaperone domains and their interaction with HSP70 determined by SDS-PAGE electrophoresis

## EDUCATION AND TRAINING

21-27 June 2022

**Erasmus Teaching scholarship**

University of Chemical Technology and Metallurgy, Sofia, Bulgaria

23-29 September 2014

**Erasmus Teaching scholarship**

University of Chemical Technology and Metallurgy, Sofia, Bulgaria

September 2013

**DAAD scholarship**

Group of Biophysics, Department of Biology, University of Konstanz, Germany

Project title: "The effect of various cations on transport properties of Na,K-ATPase. A fluorescence study"

May 2000 – Nov 2005

**PhD in Biology**

Department of Biology, University of Konstanz, Germany

PhD Thesis: "Acyl-CoA Dehydrogenases: Mechanistic studies on MCAD"

Skills and knowledge in: enzymology, recombinant DNA, protein purification

1997 – 1999

**Master degree in Heterocycles Chemistry**

Faculty of Chemistry, Biochemistry, AICU, Carol I Av., no.11, 700506 Iasi, Romania

Skills and knowledge in: basic organic chemistry skills, pH sensors

1993 – 1997

**Bachelor degree in Chemistry**

Faculty of Chemistry, Biochemistry, AICU, Carol I Av., no.11, 700506 Iasi, Romania

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C1	B2
German	C2	B1	B1	B2	A2
French	B2	B1	A2	A1	B1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

Communication skills Good communication skills gained through teaching activities and international conferences

Organizational / managerial skills Organizer of small students working teams. Coordinate the activity of some PhD students.

Technical skills and competences Basic skills in enzyme activity measurements, protein, peptide and DNA isolation and purification by FPLC, DNA cloning, spectroscopy, mass spectrometry and antibacterial testing.  
Substrate synthesis and purification. HPLC separation. DNA and protein electrophoresis  
Implementing some new research ideas in the frame of biochemistry laboratory team

Computer skills

- knowledge of bioinformatics topics, such as BLAST and homology searches
- good command of Microsoft Office (Word, Excel, PowerPoint), ChemDrawPro, KaleidaGraph, Origin, Mendeley, EndNote etc.

Driving licence B

ADDITIONAL INFORMATION

Publications 63 (ISI, Annex 1), 19 (non-ISI), 11 (conference volumes)

Presentations 3 oral presentations: July, 2021, Velingrad, Bulgaria; June, 2018, Starosel, Bulgaria; one presentation at a national conference SRBBM, September, Iasi, 2019

Chapters in international books Two published chapters

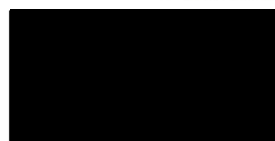
Books three

Projects Leader of two national research projects (RP7/2007 and PED494/2020)

Memberships Eight projects (1451/2005, GAR 241/2007, PC 2746/ 2007, PC 4300/2008, 2023/2008, PN-II-PTPCCA-2013-4-1149, PN-III-P4-ID-PCE-2016-0377, PN-III-P2-2.1-PED-2016-0869)

August 26, 2024

Associate Professor  
Vasile Robert Gradinaru



## LIST OF PUBLICATION

### ISI indexed papers

1. Jitaru, S.C., Enache, A.C., Cojocaru, C., Drochioiu, G., Petre, B.A., **Gradinaru, V.-R.** (2024) Self-Assembly of a Novel Pentapeptide into Hydrogelated Dendritic Architecture: Synthesis, Properties, Molecular Docking and Prospective Applications, *Gels*, 10(2), 86.
2. Lupu, A., Gradinaru, L.M., **Gradinaru, V.R.**, Bercea, M. (2023) Diversity of Bioinspired Hydrogels: From Structure to Applications. *Gels*, 9, 376.
3. Bercea, M., Plugariu I.-A., Dinu, M.V., Pelin, I., Lupu, A., Bele, A., **Gradinaru, V.R.** (2023) Poly (vinyl alcohol)/bovine serum albumin hybrid hydrogels with tunable mechanical properties, *Polymers*, 15(23), 4611.
4. Gradinaru, L.M., Bercea, M., Lupu, A., **Gradinaru, V.R.** (2023) Development of Polyurethane/Peptide-Based Carriers with Self-Healing Properties, *Polymers*, 15(7), 1697.
5. Bercea, M., Plugariu I.-A., Gradinaru, L.M., Avadanei, M., Doroftei, F., **Gradinaru, V.R.** (2023) Hybrid Hydrogels for Neomycin Delivery: Synergistic Effects of Natural/Synthetic Polymers and Proteins. *Polymers*, 15(3), 630.
6. Lupu, A.; Rosca, I.; **Gradinaru, V.R.**; Bercea, M. (2023) Temperature Induced Gelation and Antimicrobial Properties of Pluronic F127 Based Systems. *Polymers*, 15(2), 355.
7. Jitaru, S.-C., Neamtu, A., Drochioiu, G., Darie-Ion, L., Stoica, I., Petre, B.-A.; **Gradinaru, V.-R.** (2023) A Diphenylalanine Based Pentapeptide with Fibrillating Self-Assembling Properties. *Pharmaceutics*, 15, 371.
8. Munteanu, I.G., **Gradinaru, V.R.**, Apetrei, C. (2022) Development of a Chemically Modified Sensor Based on a Pentapeptide and Its Application for Sensitive Detection of Verbascoside in Extra Virgin Olive Oil, *International Journal of Molecular Sciences*, 23 (24), 15704.
9. Petrilă, L.-M., **Grădinaru, V. R.**, Bucatariu, F. and Mihai, M. (2022) Polymer/Enzyme Composite Materials—Versatile Catalysts with Multiple Applications, *Chemistry*, 4 (4),1312-1338.
10. Munteanu, I.G., **Gradinaru, V.R.**, Apetrei, C. (2022) Sensitive Detection of Rosmarinic Acid Using Peptide-Modified Graphene Oxide Screen-Printed Carbon Electrode, *Nanomaterials*, 12(19), 3292.
11. Mocanu, C.S., Darie-Ion, L., Petre, B.A., **Gradinaru, V.R.**, Drochioiu, G. (2022) A computational study of metal ions interaction with amyloid- $\beta$  1–42 peptide structure in hyperpyrexia: Implications for Alzheimer disease, *Journal of King Saud University - Science*, 34(6), 102184.
12. Mocanu, C.S., Petre, B.A., Darie Ion, L., Drochioiu, G., Niculaua, M., Stoica, I., Homocianu, M., Nita, L.E., **Gradinaru, V.R.** (2022), Structural Characterization of a New Collagen Biomimetic Octapeptide with Nanoscale Self-assembly Potential: Experimental and Theoretical Approaches, *ChemPlusChem*, Feb;87(2):e202100462.
13. Bercea, M., Gradinaru, L.-M., Morariu, S., Plugariu, I.-A., **Gradinaru, R.V.** (2022) Tailoring the properties of PVA/HPC/BSA hydrogels for wound dressing applications, *Reactive&Functional Polymers*, 170, 105094.
14. Mihalcea, E., Drochioiu, G., Jitaru, S.C., Mangalagiu, V., **Gradinaru, R.V.** (2022), Protein and peptide determination based on the modified biuret procedure: implications for various biotechnologies, *International Multidisciplinary Scientific GeoConference: SGEM 22* (6.1), 113-120.
15. Darie-Ion, L., Jayathirtha, M., Hitruc, G.E., Zaharia, M.M., **Gradinaru, R. V.**, Darie, C., Pui, A., Petre, B.A (2021) A Proteomic Approach to Identify Zein Proteins upon Eco-Friendly Ultrasound-Based Extraction, *Biomolecules*, 11(12), 1838.
16. Darie-Ion, L., Drochioiu, G., Pui, A., Mihalcea, E., Gradinaru, V.-R. (2021), Zein conjugates of biomedical interest: synthesis and characterization by MALDI-TOF mass spectrometry and Fourier transform infrared spectroscopy, *International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management*, SGEM, 21 (6.1),155-162.
17. Bercea M., Plugariu I.-A., Nita L.E., Morariu S., **Gradinaru R.V.** (2021), On the Interactions between Bovine Serum Albumin and Reduced Glutathione in Solution, 9th E-Health and Bioengineering Conference, EHB 2021.
18. Zaharia, M., Mihai, M., Roman T., Zbancioc, G., Pui, A., **Gradinaru, V.R.**, Logigan, C., Drochioiu, G. (2020), Unusual ferrite induced photohydrolysis of dinitrophenols to nonaromatic and nontoxic derivatives, *J. Photochem. Photobiol. A*, 394, 1 mai 2020, 112497.
19. Drochioiu, G., Surleva, A., Ilieva, D., Pintilie, O., Gradinaru, R.-V. (2020), Chemical and biological tests used to assess the ecological risk of pollution with heavy metals and arsenic in Tarnita mining area, Suceava, Romania, (Conference paper) *International Multidisciplinary Scientific GeoConference Sureying Geology and Mining Ecology (SGEM)*, 220 (3.1), 403-410.

20. Ilieva, D.M., Argirova, M., Angelova, L.Y., **Gradinaru, V.R.**, Drochioiu, G., Surleva, A. (2020), Application of chemical and biological tests for estimation of current state of a tailing dump and surrounding soil from the region of Tarnița, Suceava, România, *Environ Sci Pollut Res*, 27, 1386–1396.
21. Habasescu, L., Jureschi, M., Petre, B.-A., Mihai, M., **Gradinaru, R.-V.**, Murariu, M., Drochioiu, G. (2020), Histidine-Lacked A $\beta$ (1–16) Peptides: pH-Dependent Conformational Changes in Metal Ion Binding, *Int. J. Pept. Res. Ther.*, 26, 2529–2546.
22. Murariu, M., Habasescu, L., Ciobanu, C.I., **Grădinaru, V. R.**, Pui, A., Drochioiu, G., Mangalagiu, I. (2019), Interaction of amyloid A $\beta$  (9-16) peptide fragment with metal ions: CD, FT-IR, and fluorescence spectroscopic studies, *Int. J. Pept. Res. Ther.*, 25(3), 897-909.
23. Drochioiu, G., Cloșcă, C.-M., Ion, L., Pelin, I., **Gradinaru, R.-V.** (2019), Bacteriorhodopsin from Halobacterium Salinarium is a key compound of bioenergetics (Conference paper) International Multidisciplinary Scientific GeoConference Sureying Geology and Mining Ecology (SGEM), 19 (6.1), 575-582.
24. Necula, R., Gille, E., Dirtu, A.C., Sandu, I., **Grădinaru, V. R.**, Petcu, A., Drochioiu, G. (2018), Heavy metal-incuced cuticular alkane changes of tall fescue (*Festuca arundinacea*) plantlets, *Rev. Chim. (Bucharest)*, 69 (7), 1682-1686.
25. Mihai, A.I., Drochioiu, G., Murariu, M., **Grădinaru, R.-V.**, Zaharia, M. (2018), Evaluation of nutrient pollution in red, Bâta Doamnei and Izvorul Muntelui lakes in Neamț county, Romania (Conference paper) International Multidisciplinary Scientific GeoConference Sureying Geology and Mining Ecology (SGEM), 18 (5.1), 353-360.
26. Aflori, M, Vlad,S., Gradinaru, L.M., **Gradinaru, V.R.**, Ciobanu, C. (2017), Recent Developments in ZnO–Polyurethane Nanomaterials in *Intelligent Polymers for Nanomedicine and Biotechnologies*, Chapter 3, 45-63, CRC Press, Boca Raton.
27. Drochioiu, G., Surleva, A., Iacoban, C., Halim, E.M., **Grădinaru, R.** (2017) Eco-friendly methods for heavy metal removing from Tarnița mining area, Metal ions in biology and medicine, SGEM, **17(51)**, 297-304.
28. Andrieș, C., Manea, M, Pocanschi, C.L., Pui, A., Drochioiu, G., **Grădinaru, V. R.** (2017), Coordination behavior of Coenzyme A towards gold ions: Spectroscopic, mass spectrometric and microbiological studies, *Bulg. Chem. Commun.*, 49(3), 621-628.
29. 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.
30. Ion, L., Ciobanu, C.I., Murariu, M., **Gradinaru, R.V.** and Drochioiu, G. (2016) SDS-induced peptide conformational changes: From Triglycil-glycine to Amyloid- $\beta$  Oligomers Associated with Alzheimer's Disease, *Int. J. Pept. Res. Ther.*, 22, 45-55.
31. 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.
32. Pintilie O., Zaharia M., Cosma A., Murariu M., **Gradinaru R.**, Balan G.G., Drochioiu G., Sandu I. (2016), Assessment of alcohol production by uncoupling oxidative phosphorylation on some pollutants, *Rev. Chim. (Bucharest)*, 67 (2), 375 – 377.
33. 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.
34. 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.
35. Băncila, S., Pintilie, O. **Grădinaru, R.**, Sandu, I., Drochioiu, G., Balan, G. G. (2016) Interaction of heavy metal ions with glycy-L-tryptophan in the presence of amyloid- $\beta$  peptides, *Rev. Chim. (Bucharest)*, 67 (5), 974-977.
36. Pintilie, O., Ion, L., Surleva, A., Zaharia, M., **Gradinaru, R.**, Drochioiu, G., Balan, A., Sandu, I. (2016), Monitoring methods which influence plants viability in genetic conservation: enzymatic assay, *Rev. Chim. (Bucharest)*, 67(4), 687-691.
37. Vlad S., Gradinaru L.M., Ciobanu C., Macocinschi D., Filip D., Spiridon I., **Gradinaru R.V.** (2015), Polycarbonate urethane-hydroxypropyl cellulose membranes with zinc oxide nanoparticles, *Cellulose Chemistry and Technology*, 49 (9-10), 905 – 913.
38. Zaharia, M., **Gradinaru, R.** (2015) Interaction of Human Hemoglobin with Methotrexate, *Journal of Applied Spectroscopy*, 82(2), 285-292.
39. 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.
40. **Gradinaru, R.V.** and Apell, H. J. (2015) Probing the Extracellular Access Channel of the Na,K-ATPase, *Biochemistry*, 54 (15), 2508-2519.
41. 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 – 874.

42. Asaftei, I.V., Alexandroaei, M., Bîrsa, M. L, Luca, A.C., **Grădinaru, R.** (2014), The action of a penicillinase with attenuated activity on a penicillin G substrate, *Rev. Chim.-Bucharest*, 65 (8), 903-906.
43. 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.
44. Zaharia, M., Jurcoane, S., Maftai, D., Pui, A., Dumitras-Hutau, C. A. and **Grădinaru, R.** (2013) Yeast biodegradation of some pesticide dinitrophenols, *Rom. Biotech. Lett.*, 18 (2), 8144-8151.
45. Tanase, C., Volf, I., Vintu, S., **Grădinaru, 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.
46. 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.
47. Cozaciuc, I. A., Postolachi, R, **Gradinaru, 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.
48. Zaharia, M., Maftai, D., Dumitras-Hutau, C. A., Pui, A., Lagobo, Z.C., Pintilie, O. and **Grădinaru, R.** (2013) Biodegradation of pesticides DINOCAP and DNOC by yeast suspensions in a batch system, *Rev. Chim. (Bucharest)*, 64 (4), 388-392.
49. Ciobanu, C., Gradinaru, L. M., **Grădinaru, R.V.**, Vlad, S (2012) Water soluble elastin adsorption onto UV-activated green polyurethane surfaces, *Dig. J. Nanomater. Bios.*, 7(1), 97-106.
50. 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.
51. **Gradinaru, R.**, Ionas, A., Pui, A., Zbancioc, G., Drochioiu, G. (2011), Interaction of inorganic mercury with CoA-SH and acyl-CoAs, *Biometals*, 24, 1115-1121.
52. 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.
53. Ciobanu, C., Gradinaru, L. M., **Grădinaru, R.V.**, Drobotă, M., Vlad, S (2011) Bovine serum albumin adsorption onto UV-activated green polyurethane surfaces, *Dig. J. Nanomater. Bios.*, 6(4), 1751-1761.
54. Vlad, S., Ciobanu, C., **Grădinaru, R.V.**, Gradinaru, L. M., Nistor, A. (2011) Antibacterial evaluation of some polyurethane membranes modified by zinc oxide nanoparticles, *Dig. J. Nanomater. Bios.*, 6(3), 921-930.
55. Hansen, S. H., Andersen, M. L., Cornett, C., **Gradinaru, R.**, Grunnet, N. (2010) A role for taurine in mitochondrial function, *J. Biomed. Sci.*, 17 (Suppl): S23, 1-8.
56. Costin, D. T., **Grădinaru, R.**, Nemțoi, G. and Popa, K. (2010) Insight on the  $^{204}\text{Tl}^+$ -*Escherichia Coli* system, *Rev. Roum. Chim.*, 55 (2), 153-156.
57. **Grădinaru, R.V.**, 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.
58. **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 (Conference paper - International Conference on Materials Science and Engineering, BRAMAT 2009), *Environ. Eng. Manag. J.*, 8, 901-905.
59. Drochioiu, G., Manea, M., Murariu, M., Popa, K, **Gradinaru, R.** and Przybylski, M. (2008), Metal-induced changes of amyloid proteins associated with neurodegenerative diseases, *Metal ions in Biology and Medicine*, 10<sup>th</sup> International Symposium on Metal Ions in Biology and Medicine, 10, 664.
60. **Gradinaru, R.**, Murariu, M., Dragan, E.-S., Drochioiu, G. (2007), Protein determination based on the biuret absorption in the UV range and copper binding to peptide, *Roum. Biotechnol. Lett.*, 12(3), 3235.
61. **Gradinaru, 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.
62. Drochioiu, G., Oniscu, C., **Gradinaru, R.**, Murariu. (2004) The biostructural theory versus the chemiosmotic theory, *Roum. Biotechnol. Lett.*, 9(2), 1579-1586.
63. Ciugureanu, C., Murarescu, E. D., **Gradinaru, R.** (2000) Synthesis and study of some 2-imino-1,3-thiazetidine derivatives, *Rev. Chim.-Bucharest*, 51(8), 615-620.

#### Non-ISI indexed papers

1. Mocanu, C.S., Bocec, A.S., **Gradinaru, V.R.**, Anton-Paduraru, D.T. (2020) A biochemical method for tyrosine determination in phenylketonuria using a colorimetric enzymatic approach, *Rev. Chim.*, 71, 285-294.
2. El Aamri, L., Hafidi, M., Ciobanu, C.I., Russ, M., Glocker, M.O., Petre, B.A.; **Gradinaru, V.R.** (2019), Production and characterization of a new fungal extracellular lipase, *Journal of Experimental & Molecular Biology*, 20 (3), 4.

3. Surleva, A., Marinova, A., Ivanova, V., **Gradinaru, R.**, Georgieva, S. (2017) Enzyme based methods for lactate determination, *Journal of Chemical Technology and Metallurgy*, 52(3), 513-525.
4. Zaharia, M., Drochioiu, G., Zbancioc, **Gradinaru, R.** (2016) Beyond dinitrophenol interaction with tryptophan-based compounds, *Acta Chemica Iași*, 24(1), 43-49.
5. Pintilie, O., Zaharia, M., Cisma, A., Murariu, M., **Gradinaru, R.**, Balan, G.G., Drochioiu, G., Sandu, I. (2016) Assessment of Alcohol Production by Uncoupling Oxidative Phosphorylation on Some Pollutants, *Yeast*, 24(1), 43-49.
6. Zaharia, M., Pintilie, O., Cosma, A., **Gradinaru, R.**, Drochioiu, G., Murariu, M., Sandu, I. (2014) Toxicitatea și utilitatea compușilor dinitrofenolici ca medicament, *Revista Tehnocopia*, 2 (11), 12-17.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. Drochioiu, G., Dumitraș-Huțanu, C.A., Pal, C., Pui, A., **Gradinaru, R.V.**, Pintilie, O., Buruiană, L. (2009) Effect of some pesticide dinitrophenols and other dinitrophenyl derivatives on wheat seed germination, *Lucrări Științifice, Universitatea de Științe Agricole Și Medicină Veterinară "Ion Ionescu de la Brad" Iași, Seria Horticultură*, 52, 9-14.
14. Dumitraș-Huțanu, C. A., Pui, A. **Gradinaru R.**, Drochioiu, G. (2008) Toxicity of dinitrophenyl derivatives used as pesticides and their environmental impact, *Lucrări Științifice, Universitatea de Științe Agricole Și Medicină Veterinară "Ion Ionescu de la Brad" Iași – seria Agronomie*, 51(1), 29-34.
15. Drochioiu, G., Molnar, R., Grebinisan, D., Pui, A., Dumitraș-Huțanu, C.A., **Gradinaru, R.**, Jurcoane, S. (2008) The antifungal effect of some nitrophenyl derivatives expressed in wheat germination experiments, *Lucrări Științifice, Universitatea de Științe Agricole Și Medicină Veterinară "Ion Ionescu de la Brad" Iași – seria Agronomie*, 51(1), 90-95.
16. **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.
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