

## PERSONAL INFORMATION

## Vasile Robert Gradinaru



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

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

Sex Male | Date of birth 16/10/1974 | 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.
- Ian 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 61 (ISI, Annex 1), 14 (non-ISI), 12 (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 A list of published 2 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)

November 15, 2023

 Associate Professor  
Vasile Robert Gradinaru



## LIST OF PUBLICATION

**ISI indexed papers**

1. Lupu, A., Gradinaru, L.M., **Gradinaru, V.R.**, Bercea, M. (2023) Diversity of Bioinspired Hydrogels: From Structure to Applications. *Gels*, 9, 376.
2. Gradinaru, L.M., Bercea, M., Lupu, A., **Gradinaru, V.R.** (2023) Development of Polyurethane/Peptide-Based Carriers with Self-Healing Properties, *Polymers*, 15, 1697.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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
9. 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.
10. Mocanu, C.S., Petre, B.A., Darie Ion, L., Drochioiu, G., Niculău, 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.
11. 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.
12. 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.
13. 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
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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.
  22. 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.
  23. Aflori, M., Vlad, S., Gradinaru, L.M., **Grădinaru, V.R.**, Ciobanu, C. (2017), Recent Developments in ZnO–Polyurethane Nanomaterials in *Intelligent Polymers for Nanomedicine and Biotechnologies*, Chapter 3, CRC Press, Boca Raton.
  24. 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.
  25. 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.
  26. 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.
  27. Ion, L., Ciobanu, C.I., Murariu, M., **Grădinaru, R.V.** and Drochioiu, G. (2016) SDS-induced peptide conformational changes: From Triglycyl-glycine to Amyloid- $\beta$  Oligomers Associated with Alzheimer's Disease, *Int. J. Pept. Res. Ther.*, 22, 45-55.
  28. 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.
  29. Pintilie O., Zaharia M., Cosma A., Murariu M., **Grădinaru 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.
  30. Zaharia, M., Tudorachi, L., Pintilie, O., Drochioiu, C., **Grădinaru, R.** and Murariu, M. (2016), Banned dinitrophenols still trigger both legal and forensic issues, *Environ Forensics*, 17(1), 120-130.
  31. Surleva, A., Zaharia, M., Pintilie, O., Sandu, I., Tudorachi, L. and **Grădinaru, V.R.** (2016) Improved ninhydrin-based reagent for spectrophotometric determination of ppb levels of cyanide, *Environ Forensics*, 17(1), 48-58.
  32. 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.
  33. Pintilie, O., Ion, L., Surleva, A., Zaharia, M., **Grădinaru, 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.
  34. Vlad S., Gradinaru L.M., Ciobanu C., Macocinschi D., Filip D., Spiridon I., **Grădinaru R.V.** (2015), Polycarbonate urethane-hydroxypropyl cellulose membranes with zinc oxide nanoparticles, *Cellulose Chemistry and Technology*, 49 (9-10), 905 – 913.
  35. Zaharia, M., **Grădinaru, R.** (2015) Interaction of Human Hemoglobin with Methotrexate, *Journal of Applied Spectroscopy*, 82(2), 285-292.
  36. Andries, C., Manea, M., Drochioiu, G. and **Grădinaru, 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.
  37. **Grădinaru, R.V.** and, Apell, H. J. (2015) Probing the Extracellular Access Channel of the Na,K-ATPase, *Biochemistry*, 54 (15), 2508-2519.
  38. Murariu M., Stoica I., **Grădinaru R.**, Drochioiu G., Mangalagiu I. (2014) Glutathione-based silver nanoparticles with dual biomedical activity, *Revue Roumaine de Chimie*, 59 (10), 867 – 874.
  39. 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.
  40. Zaharia, M., Borhan, A., Gherca, D., Pui, A., **Grădinaru, R.**, Zbancioc, G. and Drochioiu, G. (2014) Letter: Study on the mechanism of ferrite-induced dinitrophenol photodegradation, *Eur. J. Mass Spectrom.*, 20, 193–197.
  41. Zaharia, M., Jurcoane, S., Maftai, D., Pui, A., Dumitras-Hutanu, C. A. and **Grădinaru, R.** (2013) Yeast biodegradation of some pesticide dinitrophenols, *Rom. Biotech. Lett.*, 18 (2), 8144-8151.
  42. 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.

43. 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.
44. 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.
45. Zaharia, M., Maftei, D., Dumitras-Hutanu, 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.
46. 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.
47. 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.
48. **Grădinaru, R.**, Ionas, A., Pui, A., Zbancioc, G., Drochioiu, G. (2011), Interaction of inorganic mercury with CoA-SH and acyl-CoAs, *Biomaterials*, 24, 1115-1121.
49. 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.
50. 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.
51. 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.
52. 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.
53. 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.
54. **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.
55. **Grădinaru, R.**, Vălu, S.O., Postolache Ș., 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), *Environmental Engineering and Management Journal*, 8 (4), 901 – 905.
56. **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.
57. 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.
58. **Grădinaru, R.**, Murariu, M., Dragan, E.-S., Drochioiu, G. (2007), Protein determination based on the buret adsorption in the UV range and copper binding to peptide, *Roum. Biotechnol. Lett.*, 12(3), 3235.
59. **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.
60. Drochioiu, G., Oniscu, C., **Grădinaru, R.**, Murariu. (2004) The biostructural theory versus the chemiosmotic theory, *Roum. Biotechnol. Lett.*, 9(2), 1579-1586.
61. 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.

#### **Non-ISI indexed papers**

1. Surleva, A., Marinova, A., Ivanova, V., **Grădinaru, R.**, Georgieva, S. (2017) Enzyme based methods for lactate determination, *Journal of Chemical Technology and Metallurgy*, 52(3), 513-525.
2. Zaharia, M., Drochioiu, G., Zbancioc, **Grădinaru, R.** (2016) Beyond dinitrophenol interaction with tryptophan-based compounds, *Acta Chemica Iași*, 24(1), 43-49.
3. Pintilie, O., Zaharia, M., Cisma, A., Murariu, M., **Grădinaru, 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.
4. Zaharia, M., Pintilie, O., Cosma, A., **Grădinaru, R.**, Drochioiu, G., Murariu, M., Sandu, I. (2014) Toxicitatea și utilitatea compușilor dinitrofenolici ca medicament, *Revista Tehnoscopia*, 2 (11), 12-17.
5. Surleva, A., Zaharia, M., Ion, L., **Grădinaru, R.**, Drochioiu, G., Mangalagiu, I. (2013) Ninhydrin-based spectrophotometric assays of trace cyanide, *Acta Chemica Iași*, 21, 57-70.

6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. **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.
12. **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.
13. Sunel, V., Basu, C., Ciugureanu, C., **Gradinaru, R.** (1999) Syntheses of new antimetabolites with  $\alpha$ -amino acids support, *Analele Stiintifice ale Universitatii Al I Cuza din Iași*, Chimie, 7(2), 335-340.
14. 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.

#### **Publications in conference volumes (non-indexed)**

1. Surleva, A., Marinova, A., Ivanova, V., **Gradinaru, R.** and Georgieva, S. (2017) Enzyme based methods for lactate determination, *Journal of Chemical Technology and Metallurgy*, 52(3), 513-525.
2. Zaharia, M., Drochioiu, G., Zbancioc, **Gradinaru, R.** (2016) Beyond dinitrophenol interaction with tryptophan-based compounds, *Acta Chemica Iași*, 24(1), 43-49.
3. 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.
4. 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.
5. 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.
6. Drochioiu, G, Sandu, I., **Gradinaru, R.**, Zbancioc, G., Mangalagiu, I. (2011) Ninhydrin-based forensic investigations: II. Cyanide analytical toxicology, 1(4), 213-226.
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