

**LISTA LUCRĂRI**  
**Lect dr Laura Pitulice**

**Lista articolelor ISI relevante**

- 1 Pitulice L, Isvoran A, Chiriac A, Structural features of proteins reflected by structural scaling laws, Journal of Serbian Chemical Society, 73, 2008: 805 - 813
- 2 Pitulice L, Isvoran A, Craescu CT, Chiriac A. Scaling properties of radius of gyration and surface area for EF hand calcium binding proteins, Chaos Solitons and Fractals, 2009, 40:684-690
- 3 Bizerea Spiridon O, Preda E, Botez A, Pitulice L. Phenol removal from wastewater by adsorption on zeolitic composite. Environ Sci Pollut Res 2013, 20(9):6367-81
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- 5 Dascălu D, Pitulice L, Ionel R, Bizerea-Spiridon O. The usage of a zeolitic composite for quality improvement of copper contaminated mining wastewaters, Int J Env Sci Tech, Jul 2015; 12(7): 2285-2298
- 6 Ionel R, Pitulice L, Vasiu G, Mischie S and Bizerea O, Implementation of a GPRS based Remote Water Quality Analysis Instrumentation, Measurement, Apr 2015, 65: 81-93
- 7 Pitulice L, Craciun D, Vilaseca E, Madurga S, Pastor I, Mas F, Isvoran A. Fractal dimension of the trajectory of a single particle diffusing in crowded media. Romanian Journal of Physics 2016; 61(7-8): 1276-1286
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**Titlul tezei de doctorat**

“Aspecte fractale ale structurii si dinamicii biomoleculilor”

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- 1 Pitulice L, Isvoran A, Isac D. *Predare-invatare-evaluare Stiinte*, Editura Universitatii de Vest, Timisoara, 2011 (128 pagini)
- 2 Borcan F, Pitulice L, Dascalu D, Chiriac V, Bolcu C, Isac D. *Algoritmizare, modelare, experiment chimic - Chimie anorganica*, Editura Eurostampa Timisoara, 2007 (128 pagini)
- 3 Pitulice L, Isac D, Chiriac A, Iagher R, Sporea-Iacob F. *Didactica Chimiei*, Editura Mirton Timisoara, 2006 ISBN 973-661-832-3 (165 pagini)

- 4 Chiriac A, Isac D, Pitulice L, Iagher R, Isacu M. *Activități de învățare Chimie*, Editura Mirton Timișoara, 2005 ISBN 973-661-571-5(161 pagini)
- 5 Chiriac A, Isac D, Pitulice L. *Metodica predării chimiei prin itemi obiectivi*, Editura Mirton, Timișoara, 2003 ISBN 973-661-046-2 (62 pagini)
- 6 Chiriac V, Isac D, Pitulice L, Dascălu D. *Autoevaluare prin experimente de chimie anorganică*, Editura Mirton, Timișoara, 2002 ISBN 973-585-833-9 (100 pagini)
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- 2 Isvoran A, Vilaseca E, Garcés JL, Madurga S, Pitulice L, Mas F. Fractal Kinetic in *New Frontiers in Nanochemistry*, Concepts, Teories ad Trends, Volume 1, ed Putz MV, 1st Ed., Apple Academic Press, 2020, Pages:13
- 3 Mas F, Madurga S, Pastor I, Vilaseca E, Pitulice L, Isvoran A. Macromolecular Crowding in *New Frontiers in Nanochemistry*, Concepts, Teories ad Trends, Volume 3, ed Putz MV, 1st Ed., Apple Academic Press, 2020, Pages: 11
- 4 Putz MV, Pitulice L, Putz AM, Tudoran MA. Polycyclic Aromatic Hydrocarbons (PAHs) in *New Frontiers in Nanochemistry*, Concepts, Teories ad Trends, Volume 3, ed Putz MV, 1st Ed., Apple Academic Press, 2020, Pages: 14
- 5 Putz MV, Pitulice L, Dascalu D, Isac D. Bondonic Chemistry: Non-classical Implications on Classical Carbon Systems in *Exotic Properties of Carbon Nanomatter: Advances in Physics and Chemistry*, ed Putz, MV and Ori, O. Book Series: Carbon Materials-Chemistry and Physics Volume: 8 Pages: 261-322 Published: 2015

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- 2 Isvoran A, Pitulice L, Craescu CT, Chiriac A, Fractal aspects of calcium binding proteins, *Chaos Solitons&Fractals*, 35: 960-966, 2008
- 3 Craciun D, Pitulice L, Ciorsac A, Ostafe V, Isvoran A. Proteins Surface Roughness Analysis. Comparison of Crystallographic and NMR Structures, *Romanian Reports in Physics*, 2012, 64: 116-126
- 4 Patrulea V, Negrulescu A, Mincea MM, Pitulice L, Spiridon O, Ostafe V. Optimization of the removal of copper(II) ions from aqueous solution on chitosan and cross-linked chitosan beads, *BioResources* 2013; 8(1), 1147-1165
- 5 Pastor I, Pitulice L, Balcells C, Vilaseca E, Madurga S, Isvoran A, Cascante M, Mas F. Effect of crowding by Dextrans in enzymatic reactions. *Biophys Chem* 2014, 185:8-13
- 6 Bizerea-Moga TO; Pitulice L; Pantea CL; Olah O; Marginean O; Moga TV Extreme Birth Weight and Metabolic Syndrome in Children. *Nutrients* 2022; 14(1)

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- 1 Putz V. M., Putz AM, Pitulice L., Chiriac V. On Chemical Hardness Assessment of Aromaticity for Some Organic Compounds, *International Journal of Chemical Modeling*, 2010; 2(4):1-12
- 2 Craciun D., Pitulice L., Isvoran A. Fractal features of proteins structure and dynamics. Part I – Structure. *International Journal of Chemical Modeling (IJCHEMO)* 2010; 2(1): 33-48
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- 4 Pitulice L., Pastor I, Vilaseca E, Madurga S, Isvoran A, et al. Influence of Macromolecular Crowding on the Oxidation of ABTS by Hydrogen Peroxide Catalyzed by HRP. *J Biocatal Biotransformation* 2013; 2:1. doi:10.4172/2324-9099.1000107
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- 6 Dascălu D, Muntean SG, Pitulice L., Isac D, Structure and reactivity of some aromatic compounds with acidic and basic character. *New Front. Chem.* 2017; 26(1):21-29.

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- 2 Radovan C, Dascalu D, Andoni M, Pitulice L. Evaluation of pH into an electrocoagulation Cell, *Annals of West University, Ser.Chem.* 1999; 8:49-58
- 3 Isac D, Pitulice L. Model de rezolvare a subiectelor date la Concursul pentru ocuparea posturilor didactice vacante in invatamantul preuniversitar, 17 iulie 2000, specializarea chimie, profesor I, *Annals of West University of Timisoara – supliment* , vol. 9(1), 2000
- 4 Modra D, Pitulice L., Nutiu R. Esterification and Polyesterification reactions with Industrial Applications. IV. New Polyesters of the Adipic Acid with Diverse Glycols, *Annals of West University, Series of Chemistry*, 2003; 12 (1), 1-6
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- 6 Andrei A, Ardelean D, Duda-Seiman C, Pitulice L., Nutiu R. Condensation Reactions of the Barbituric Acid with Nitroso-Derivates, *Annals of West University, Series of Chemistry*, 2004;13 (2):171-182
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- 9 Pitulice L., Vilaseca E., Isvoran A., Garcés J. L., Mas F. Aspects of fractal kinetics of

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- 10 Spiridon OB, Pitulice L, Dascalu D, Vlad-Oros Beatrice, Ionel, R., Ostafe, V. Copper removal from wastewater by adsorption on biozeolit *Annals of West University of Timisoara, Series Chemistry*, ISSN 1224-9513, 2011;20(4)
  - 11 Spiridon Bizerea O, Dascalu D, Pitulice L, Vlad-Oros B, Ionel, R., Ostafe, V. The influence of biomass hydration on the adsorption of copper from mine wastewater on Spirulina, *Annals of West University of Timisoara, Series Chemistry*, ISSN 1224-9513, 2011;20(4)
  - 12 Pitulice L, Ionel R, Bizerea Spiridon O., Potentiometric approach for studying diffusion in crowded media *Annals of West University of Timisoara, Series Chemistry*, ISSN 1224-9513, 2012;21(2)
  - 13 Ursut GA, Manea F, Ghicioi E, Vlase T, Vlase G, Pitulice L. Relevarea cu un derivat de luminol și tehnica ATR-FTIR a urmelor latente de sânge, după alterarea lor chimică (din materiale textile spălate, după o zi și după opt luni). *Revista Romana de Criminalistica*, 2024;25(1):103-111

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1. Ciorba GA, Radovan C, Vlaicu I, Pitulice L, *Correlation Between Organic Component and Electrode Material. Consequences on Electrochemical Removal of Surfactants from Wastewater*, 50 th ISE Meeting-Extended Abstracts, 596, Pavia, Italy, 5-10 september 1999
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4. Radovan C, Ciorba G.A., Vlaicu I, Pitulice L, Andoni M., Iovi A. *Premise and Possibilities for Phenol Separation by Electrocoagulation*, 51<sup>st</sup> Annual ISE Meeting, Warsaw, Poland, Abstracts, CDROM, Programme 596, September 3-8, 2000
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6. Pitulice L, Isac D, Chiriac A, Ostafe V. *Ecological education – component of the initial formation of students*, Annual UWE Meeting, Dubrovnik, Croatia, 2002
7. Pitulice L, Chiriac A. *New directions in initial formation of future chemistry teachers*, The III<sup>rd</sup> International Symposium “Young people and Multidisciplinary research” Romania-Serbia-Hungary, Timisoara, November 8-9, 2001
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11. Pitulice L, Isvoran A, Isacu M, Chiriac A, Isac D. *Main Directions in Teaching and Learning Chemistry by Using the Computer* The VI<sup>th</sup> International Symposium “Young people and Multidisciplinary research”, Romania-Serbia-Hungary, Timișoara, September 2004
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13. Pitulice L, Wong K.Y. D. Electrochemical behaviour of polypyrrole films doped with Acid Red 1, *The 14<sup>th</sup> Annual RACI R & D Topics Conference*, December 5-9 Wollongong, Australia, 2006
14. Pitulice L, Craescu C.T, Isvoran A, Chiriac A. Scaling properties of radius of gyration and surface area for E-F hand calcium binding proteins, *The IX<sup>th</sup> National Conference of Biophysics*, May 11-13 Bucharest, Romania, 2007
15. Isvoran A, Vilaseca E, Pitulice L, Garces J.L, Mas F. A fractal-like approach for enzymatic reactions in crowded media. Monte Carlo simulations for reactants with different mobility and sizes, *32<sup>nd</sup> FEBS Congress “Molecular Machines”*, July 7-12 Vienna, Austria, 2007
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