

## LISTA LUCRĂRI

## Lista carti

Nr. Crt.	Cartea, monografia, capitol carte
1	Mas Francesc, <u>Pitulice Laura</u> , Isvoran Adriana, Madurga Sergio, Blanco Pablo M. Fractal Dimension in <i>New Frontiers in Nanochemistry</i> , Concepts, Teories ad Trends, Volume 1, ed Putz MV, 1st Ed., Apple Academic Press, 2020, Pages:16
2	Adriana Isvoran, Eudald Vilaseca, Josep Lluís Garcés, Sergio Madurga, <u>Laura Pitulice</u> , Francesc Mas. Fractal Kinetic in <i>New Frontiers in Nanochemistry</i> , Concepts, Teories ad Trends, Volume 1, ed Putz MV, 1st Ed., Apple Academic Press, 2020, Pages:13
3	Francesc Mas, Sergio Madurga, Isabel Pastor, Eudald Vilaseca, Laura Pitulice, Adriana Isvoran. Macromolecular Crowding in <i>New Frontiers in Nanochemistry</i> , Concepts, Teories ad Trends, Volume 3, ed Putz MV, 1st Ed., Apple Academic Press, 2020, Pages: 11
4	Putz Mihai V., <u>Pitulice Laura</u> , Putz Ana-Maria, Tudoran Marina A. Polycyclic Aromatic Hydrocarbons (PAHs) in <i>New Frontiers in Nanochemistry</i> , Concepts, Teories ad Trends, Volume 3, ed Putz MV, 1st Ed., Apple Academic Press, 2020, Pages: 14
5	Putz M.V., <u>Pitulice L</u> , 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
6	<u>Laura Pitulice</u> , Adriana Isvoran, Delia Isac <i>Predare-invatare-evaluare Stiinte</i> , Editura Universitatii de Vest, Timisoara, 2011 (128 pagini)
7	F. Borcan, <u>Laura Pitulice</u> , Daniela Dascalu, V. Chiriac, C. Bolcu, Delia Isac <i>Algoritmizare, modelare, experiment chimic - Chimie anorganica</i> , Editura Eurostampa Timisoara, 2007 (128 pagini)
8	<u>Laura Pitulice</u> , Delia Isac, A. Chiriac, Rodica Iagher, Florina Sporea-Iacob <i>Didactica Chimiei</i> , Editura Mirton Timisoara, 2006 ISBN 973-661-832-3 (165 pagini)
9	A. Chiriac, Delia Isac, <u>Laura Pitulice</u> , Rodica Iagher, Mia Isacu <i>Activități de învățare Chimie</i> , Editura Mirton Timișoara, 2005 ISBN 973-661-571-5(161 pagini)
10	A. Chiriac, Delia Isac, <u>Laura Pitulice</u> <i>Metodica predării chimiei prin itemi obiectivi</i> , Editura Mirton, Timișoara, 2003 ISBN 973-661-046-2 (62 pagini)
11	Veronica Chiriac, Delia Isac, <u>Laura Pitulice</u> , Daniela Dascălu <i>Autoevaluare prin experimente de chimie anorganică</i> , Editura Mirton, Timișoara, 2002 ISBN 973-585-833-9 (100 pagini)
12	A. Chiriac, Delia Isac, Rodica Iagher, Mia Isacu, <u>Laura Pitulice</u> , <i>Formare inițială și continuă – Chimie</i> , Editura Mirton, Timișoara, 2002 ISBN 973-85553-2-9 (191 pagini)
13	A. Chiriac, Delia Isac, Rodica Iagher, Mia Isacu, <u>Laura Pitulice</u> , <i>Perfectionare Chimie</i> , Editura Mirton, Timisoara, 2001 ISBN 973-585-428-7 (80 pagini)

**Lista articolelor publicate****Articole stiintifice publicate in reviste de specialitate cotate in sistemul ISI.**

Nr. crt	Titlu
1	G.A.Ciorba, C.Radovan, I.Vlaicu, <u>Laura Pitulice</u> , Correlation Between Organic Component and Electrode Material. Consequences on Electrochemical Removal of Surfactants from Wastewater, <i>Electrochimica Acta</i> , 46 (2-3), 297-303, 2000
2	Isvoran A., <u>Pitulice L.</u> , Craescu CT, Chiriac A, Fractal aspects of calcium binding proteins, <i>Chaos Solitons&amp;Fractals</i> , 35: 960-966, 2008
3	<u>Pitulice L.</u> , Isvoran A., Chiriac A., Structural features of proteins reflected by structural scaling laws, <i>Journal of Serbian Chemical Society</i> , 73, 2008: 805 - 813
4	<u>Pitulice L.</u> , Isvoran A., Craescu C.T., Chiriac A., Scaling properties of radius of gyration and surface area for EF hand calcium binding proteins, <i>Chaos Solitons and Fractals</i> , 2009, 40:684-690
5	Dana Craciun, <u>Laura Pitulice</u> , A. Ciorsac, V. Ostafe, Adriana Isvoran. Proteins Surface Roughness Analysis. Comparison of Crystallographic and NMR Structures, <i>Romanian Reports in Physics</i> , 2012, 64: 116-126
6	Patrulea, V., Negrulescu, A., Mincea, M. M., <u>Pitulice, L. D.</u> , Spiridon, O. B., and Ostafe, V. (2013). Optimization of the removal of copper(II) ions from aqueous solution on chitosan and cross-linked chitosan beads, <i>BioResources</i> 8(1), 1147-1165
7	Otilia Bizerea Spiridon, Elena Preda, Alexandru Botez, <u>Laura Pitulice</u> , Phenol removal from wastewater by adsorption on zeolitic composite. <i>Environ Sci Pollut Res</i> 2013, 20(9):6367-81
8	Isabel Pastor, <u>Laura Pitulice</u> , Cristina Balcells, Eudald Vilaseca, Sergio Madurga, Adriana Isvoran, Marta Cascante, Francesc Mas, Effect of crowding by Dextrans in enzymatic reactions. <i>Biophys Chem</i> 2014, 185:8-13
9	<u>Laura Pitulice</u> , Eudald Vilaseca, Isabel Pastor, Sergio Madurga, Josep Lluís Garcés, Adriana Isvoran, Francesc Mas, Monte Carlo simulations of enzymatic reactions in crowded media. Effect of the enzyme-obstacle relative size. <i>Math Biosci</i> 2014, 251:72-82
10	D. Dascălu, <u>L. Pitulice</u> , R. Ionel, O. Bizerea-Spiridon. The usage of a zeolitic composite for quality improvement of copper contaminated mining wastewaters, <i>Int J Env Sci Tech</i> , JUL 2015; 12(7): 2285-2298
11	Raul Ionel, <u>Laura Pitulice</u> , Gabriel VasIU, Septimiu Mischie and Otilia Bizerea, Implementation of a GPRS based Remote Water Quality Analysis Instrumentation, <i>Measurement</i> , Apr 2015, 65: 81-93
12	<u>Pitulice L.</u> , 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. <i>Romanian Journal of Physics</i> 2016; 61(7-8): 1276-1286
13	Bizerea-Moga, TO; Pitulice, L; Bizerea-Spiridon, O; Moga, TV Evaluation of Serum Selenium Status by Age and Gender: A Retrospective Observational Cohort Study in Western Romania. <i>Nutrients</i> 2021; 13(5):
14	Isvoran, A; Roman, DL; 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. <i>Ecological Chemistry and Engineering S-Chemia I Inzynieria Ekologiczna S</i> 2021; 28(3): 365-388
15	Bizerea-Moga, TO; Pitulice, L; Pantea, CL; Olah, O; Marginean, O; Moga, TV Extreme Birth Weight and Metabolic Syndrome in Children. <i>Nutrients</i> 2022; 14(1)

16	Bizerea-Moga TO, Pitulice L, Bizerea-Spiridon O, Angelescu C, Mărginean O, Moga TV. Selenium status in term neonates, according to birth weight and gestational age, in relation to maternal hypertensive pathology. <i>Frontiers in Pediatrics</i> 2023 Mar 30;11:1157689.
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Nr. Crt	Articol
1	Putz V. M., Putz AnaMaria, <u>Pitulice Laura</u> , Chiriac V. (2010) On Chemical Hardness Assessment of Aromaticity for Some Organic Compounds, <i>International Journal of Chemical Modeling</i> , 2(4):1-12
2	D. Craciun, <u>L. Pitulice</u> , A. Isvoran, Fractal features of proteins structure and dynamics. Part I – Structure. (2010) <i>International Journal of Chemical Modeling (IJCHEMO)</i> 2(1): 33-48 <b>LUCRARE INVITATA</b>
3	D. Craciun, <u>L. Pitulice</u> , A. Isvoran, Fractal features of proteins structure and dynamics. Part II – Dynamics. (2010), <i>International Journal of Chemical Modeling (IJCHEMO)</i> 2(1):49-66 <b>LUCRARE INVITATA</b>
4	<u>Pitulice L</u> , Pastor I, Vilaseca E, Madurga S, Isvoran A, et al. (2013) Influence of Macromolecular Crowding on the Oxidation of ABTS by Hydrogen Peroxide Catalyzed by HRP. <i>J Biocatal Biotransformation</i> 2:1. doi:10.4172/2324-9099.1000107
5	Balcells C, Pastor I, <u>Pitulice L</u> , Hernández C, Via M, Garcés JL, Madurga S, Vilaseca E, Isvoran A, Cascante M, Mas F. Macromolecular Crowding upon in-Vivo-Like Enzyme-Kinetics: Effect of Enzyme-Obstacle Size Ratio. <i>New Front. Chem.</i> (2015) 24(1):3-16.
6	Dascălu D, Muntean SG, <u>Pitulice L</u> , Isac D, Structure and reactivity of some aromatic compounds with acidic and basic character. <i>New Front. Chem.</i> (2017) 26(1):21-29.

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Nr. Crt	Articol
1	C. Bologa, <u>Laura Pitulice</u> , Z. Stanoer, S. Mureșan, A. Chiriac <i>QSAR by MTD Method for beta-Blocking Compounds</i> , <i>Annals of West University, Series of Chemistry</i> , 4 (1995), 41-46
2	C.Radovan, Daniela Dascalu, Mihaela Andoni, and <u>Laura Pitulice</u> , <i>Evaluation of pH into an electrocoagulation Cell</i> , <i>Annals of West University, Ser.Chem.</i> 8, 49-58, 1999
3	Delia Isac, <u>Laura Pitulice</u> , <i>Model de rezolvare a subiectelor date la Concursul pentru ocuparea posturilor didactice vacante in invatamantul preuniversitar, 17 iulie 2000, specializarea chimie, profesor I</i> , <i>Annals of West University of Timisoara – supliment</i> , vol. 9(1), 2000
4	Dorina Modra, <u>Laura Pitulice</u> , R. Nutiu <i>Esterification and Polyesterification reactions with Industrial Applications. IV. New Polyesters of the Adipic Acid with Diverse Glycols</i> , <i>Annals of West University, Series of Chemistry</i> , 12 (1), 2003, 1-6
5	<u>Laura Pitulice</u> , Delia Isac <i>Shulman’s Model of Pedagogical Reasoning Applied on Experiments of Inorganic Chemistr</i> , <i>Annals of West University, Series of Chemistry</i> , 12 (1), 2003, 39-44

6	Alina Andrei, Dorina Ardelean, Corina Duda-Seiman, <u>Laura Pitulice</u> , R. Nutiu <i>Condensation Reactions of the Barbituric Acid with Nitroso-Derivates</i> , Annals of West University, Series of Chemistry, 13 (2), 2004, 171-182
7	Isac D, Chiriac A, <u>Pitulice L</u> , The essay, alternative method of evaluation for optional activities, <i>Journal of Educational Sciences</i> 2(11), 2004, 117-123
8	Ioanes M., <u>Pitulice L.</u> , Isvoran A., <i>A fractal approach of the influence of physical factors on chicken lysozyme structure</i> , Annals of West University of Timișoara, Series of Chemistry, 2007, 16, 9-14
9	Pitulice, Laura, Vilaseca, E., Isvoran, A., Garces, J. L., Mas, F. <i>Aspects of fractal kinetics of enzymatic reactions by Monte Carlo simulations</i> , Annals of West University of Timisoara, Series Chemistry, ISSN 1224-9513, 20(2) 2011
10	Spiridon OB, <u>Pitulice Laura</u> , Dascalu D., Vlad-Oros Beatrice, Ionel, R., Ostafe, V. <i>Copper removal from wastewater by adsorption on biozeolit</i> Annals of West University of Timisoara, Series Chemistry, ISSN 1224-9513, 20(4) 2011
11	Spiridon Bizerea Otilia, Dascalu, Daniela, <u>Pitulice Laura</u> , Vlad-Oros Beatrice, Ionel, R., Ostafe, V. <i>The influence of biomass hydration on the adsorption of copper from mine wastewater on Spirulina</i> , Annals of West University of Timisoara, Series Chemistry, ISSN 1224-9513, 20(4) 2011
12	<u>Pitulice L</u> , Ionel R, Bizerea Spiridon O., <i>Potentiometric approach for studying diffusion in crowded media</i> Annals of West University of Timisoara, Series Chemistry, ISSN 1224-9513, 21(2) 2012

### **Lecții invitate de cel puțin o oră susținute în diferite laboratoare de cercetare din străinătate**

Nr. crt	Titlul si denumirea manifestarii
1	Pitulice Laura, Fractal analysis – a tool for comparison of protein structures – prezentare de 1 ora in cadrul Departamentului de Chimie Fizica si a Centrului de Cercetari Teoretice in Chimie, Universitatea Barcelona, 23.03.2011

### **COMUNICARI ȘI PREZENTARI LA CONFERINȚE**

1. G. A. Ciorba, C. Radovan, I. Vlaicu, Laura Pitulice, *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
2. C. Radovan, G.A. Ciorba, L. Pitulice, *Passivation and Activation of Aluminium Electrode in conventionally Selected Conditions. Potentiostatic Polarization Data*, 10<sup>th</sup> Conference on Physical Chemistry, Abstracts, S6 PO6, Iasi, September 26-29, 2000
3. C. Radovan, G.A. Ciorba, L. Pitulice, *Passivation and Activation of Aluminium Electrode in Conventionally Selected Conditions. Galvanostatic Polarization and Chronopotentiometric Data*, 10<sup>th</sup> Conference on Physical Chemistry, Abstracts, S6 PO7, Iasi, September 26-29, 2000
4. C. Radovan, G. A. Ciorba, I. Vlaicu, L. Pitulice, M. Andoni, A. Iovi, *Premise and Possibilities for Phenol Separation by Electrocoagulation*, 51<sup>st</sup> Annual ISE Meeting, Warsaw, Poland, Abstracts, CDR0M, Programme 596, September 3-8, 2000

5. G. A. Ciorba, C. Radovan , I. Vlaicu, A. Masu, L. Pitulice, *Removal of Nonilphenol Ethoxilates Using Electrochemical Generated Coagulant*, 51<sup>st</sup> Annual ISE Meeting, Warsaw, Poland, Abstracts, CDROM, Programme 221, September 3-8, 2000
6. Laura Pitulice, Delia Isac, A. Chiriac, V. Ostafe, *Ecological education – component of the initial formation of students*, Abstracts, Annual UWE Meeting, Dubrovnik, Croatia, 2002
7. Laura Pitulice, A. Chiriac *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
8. Laura Pitulice, Delia Isac *Pagini din istoria învățământului românesc*, The IV<sup>th</sup> International Symposium “Young people and Multidisciplinary research”, Romania-Serbia-Hungary, Timișoara, 2002
9. . Laura Pitulice, Mia Isacu, Delia Isac, Adrian Chiriac *Aspects of the environment pollution with inorganic substances*, The VII<sup>th</sup> International Symposium “Young people and Multidisciplinary research”, Hungary-Serbia&Montenegro-Romania, Hunedoara, September 25-26, 2003
10. Laura Pitulice, Veronica Chiriac, Delia Isac *Aspects of Ozone issue implication in Ecological Education*, The V<sup>th</sup> International Symposium “Young people and Multidisciplinary research”, Romania-Serbia-Hungary, Timișoara, November 6-7, 2003
11. Laura Pitulice, Adriana Isvoran, Mia Isacu, Adrian Chiriac, Delia Isac, *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
12. Pitulice L, Unipan L, Isvoran A, *Introducing the Fractal Geometry Concepts to students involved in chemistry and biology realms*, *Proceedings of the VIII<sup>th</sup> International Symposium “Young people and Multidisciplinary research” Romania-Serbia-Hungary*, May, Timisoara, 2006
13. Pitulice L, Wong K.Y. D (2006) *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
14. Pitulice L, Craescu C.T, Isvoran A, Chiriac A (2007) *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
15. Isvoran A, Vilaseca E, Pitulice L, Garces J.L, Mas F (2007) *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
16. Isvoran A, Unipan L, Pitulice L, Vilaseca E, Garces J.L, Mas F (2007) *Anomalous diffusion and fractal kinetics in cellular media*, *The Annual International Conference of the Romanian Society of Biochemistry and Molecular Biology*, September 6-9 Timisoara, Romania

17. Pitulice L., Vilaseca E., Isvoran Adriana, Unipan L., Garces J.L. and Mas F. (2008) *In silico* study of enzymatic diffusion controlled reactions in crowded media, *The XXI Sitges Conference on Statistical Mechanics - Statistical Mechanics of Molecular Biophysics* – 2-6 June 2008, Sitges, Barcelona, Spain
18. Pitulice L., Isvoran A., Craescu C.T., Chiriac A. (2008). Fractal scaling laws for EF-hand calcium binding proteins. *33<sup>rd</sup> FEBS Congress “Biochemistry of Cell Regulation”* June 28-July 3 2008, Athens, Greece
19. Dana Craciun, Laura Pitulice, A. Ciorsac, V. Ostafe, Adriana Isvoran (2010). Proteins Surface Roughness Analysis. Comparison of Crystallographic and NMR Structures. *Conferința Națională de Fizică*, 23-25 septembrie 2010, Iași, Romania
20. Laura Pitulice, Eudald Vilaseca, Adriana Isvoran, Josep Lluís Garces, and Francesc Mas, Analysis of the effects brought by the medium complexity on the kinetics of enzymatic reactions through Monte Carlo simulations, a XII-a editie a „Zilelor Academice Timisene” 26-27 Mai 2011, Timisoara, Romania
21. Laura Pitulice, Eudald Vilaseca, Adriana Isvoran, Josep Lluís Garces and Francesc Mas. Monte Carlo simulation study of diffusion controlled reactions in three dimensional crowded media, *8<sup>th</sup> European Biophysics Congress*, 23-27 August 2011, Budapest, Hungary
22. Laura Pitulice, Eudald Vilaseca, Adriana Isvoran, Josep Lluís Garces, and Francesc Mas, Aspects of fractal kinetics of enzymatic reactions through Monte Carlo simulations, *a XI-a editie a Conferintei Nationale de Biofizica*, 10-12 Noiembrie 2011, Sibiu, Romania
23. M. Mincea (Stef), A. Negrulescu, V. Patrulea, L. Pitulice, O. Bizerea Spiridon, V. Ostafe, Study on removal optimization of copper (II) ions using chitosan and cross-linked chitosans beads, *Third Regional Symposium on Electrochemistry: South-East Europe* Bucharest, Romania, May 13-17, 2012
24. PITULICE, Laura, Eudald Vilaseca, Adriana Isvoran, Josep Lluís Garces, and Francesc Mas, Fractal trajectory of a diffusing particle in 2D crowded media investigated by Monte Carlo simulation, *International Congress of the Spanish Biophysical Society, SBE*, 3-6 July 2012, Barcelona, Spain

Lector dr. Laura Pitulice

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