

Lista lucrari 2025

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| <ol style="list-style-type: none"> 1. Thermal actuators relying on elastomer-dispersed liquid crystals: From imines with supramolecular chirality and ferroelectricity to soft robots 2. Syntheses and structures of two coordination polymers formed by Ni(cyclam)²⁺ cations and sulfate anions 3. Self-assembling prodrugs
 4. Identification and putative volatile biomarkers of canine leishmaniasis in dog's breath and hair employing a novel algorithm for automated chromatographic peak detection and matching
 5. Influence of flexible substrate nature covered with ITO on the characteristics of organic heterostructures fabricated by laser deposition techniques
 6. In situ and partial in situ synthesis of cellulose magnetite/maghemit composite
 7. Atmospheric pressure plasma synthesis of adaptable coatings based on castor oil urethane dimethacrylate and their properties
 8. Emerging aero-semiconductor 3D micro-nano-architectures: Technology, characterization and prospects for applications 9. Markedly enhanced photoluminescence of carbon dots dispersed in deuterium oxide 10. Antimicrobial chitosan-based hydrogels: A novel approach to obtain sanitizers 11. Influence of the sequential purification of biomass-derived carbon dots on their colloidal and optical properties | <p>M. Damoc, C. Ursu, V. Tiron, G. Bulai, A. C. Stoica, A. M. Macsim, C. D. Varganici, A. Bele, M. Dascalu, M. Cazacu L. V. Tsymbal, I. L. Andriichuk, L. G. Bahrin, Y. D. Lampeka</p> <p>S. S. Maier, M. Pinteala, A. Angeli, C. T. Supuran</p> <p>R. Suschinel, A. L. Jaimes-Mogollon, S. F. Sim, W. Tang, J. M. Caceres-Tarazona, E. Alvarez-Valdez, M. Rosero-Moreano, M. F. Diouani, E. Chouihi, M. Brebu, V. Simion, J. A. Barasona, R. Ionescu</p> <p>M. Socol, N. Preda, A. Costas, G. Petre, A. Stanculescu, I. Stavarache, G. Popescu-Pelin, S. Iftimie, A. Stoichioiu, A. M. Catargiu, G. Socol</p> <p>R. Rotaru, M. E. Fortuna, E. Ungureanu, O. Ungureanu, A. Dascalu, V. Harabagiu</p> <p>E. R. Ionita, M. D. Ionita, A. Moldovan, C. Surdu-Bob, V. Melinte, A. L. Chibac-Scutaru, A. Lazear-Stoyanova</p> <p>V. Ursaki, T. Braniste, N. Marangoci, I. Tiginyanu</p> <p>C. C. Stan, A. Coroaba, C. O. Ania, C. Albu, M. Popa</p> <p>D. Ailincăi, M. Bercea, I. Rosca, I. A. Sandu, L. Marin</p> <p>A. S. Gonzales-Vera, C. A. Pineda-Arellano, A. Ramirez-Monroy, J. Matos, L. F. Chazaro-Ruiz, J. R. Rangel-Mendez, C. O. Ania</p> | <p>ACS Applied Materials and Interfaces, 17, 4185-41989 (2025)</p> <p>Acta Crystallographica Section E: Crystallographic Communications, 81, 90-95 (2025)</p> <p>Advances in Prodrugs. Design and Therapeutic Applications, C. T. Supuran, A. Angeli, D. Tanini, Eds., Elsevier, Amsterdam, 113-151 (2025)</p> <p>Analytical and Bioanalytical Chemistry, 417, 771-783 (2025)</p> <p>Applied Physics A: Materials Science and Processing , 131, Article 17/1-14 (2025)</p> <p>Applied Sciences, 15, Article 492/1-14 (2025)</p> <p>Applied Surface Science Advances, 25, Article 100680/1-11 (2025)</p> <p>Applied Surface Science Advances, 26, Article 100708/1-32 (2025)</p> <p>C (Journal of Carbon Research), 11, Article 10/1-14 (2025)</p> <p>Carbohydrate Polymers, 354, Article 123288/1-18 (2025)</p> <p>Carbon Trends, 19, Article 100460/1-11 (2025)</p> |
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12. Enhancing flucytosine anticandidal activity using PEGylated squalene nanocarrier	B. F. Craciun, I. Rosca, D. Peptanariu, M. Pinteala	ChemMedChem, 20, Article e202400432/1-11 (2025)
13. Optimizing enantiometric resolution of chiral triazoles in supercritical fluid chromatography	C. Frincul, A. Ghinet, D. Belei, B. Chankverdze, S. Shova, E. Lipka, A. E. Dascalu	Chirality, 37, Article e70016/1-12 (2025)
14. Fine-tuning of optical band gap in mixed halide aziridinium lead perovskites	O. I. Kucheriv, D. A. Haleliuk, S. Shova, I. A. Guralskiy	Dalton Transactions, 54, 1618-1624 (2025)
15. Design, synthesis and characterization of triphenylamine-based conjugated porous polymers as fluorescent receptors for nitroaromatic derivatives	L. Vacareanu, A. E. Bejan, D. Bejan, P. Pascariu, M. D. Damaceanu	Dyes and Pigments, 232, Article 112470/1-13 (2025)
16. A thiophene-based bisazomethine and its inclusion complex with permethylated β -cyclodextrin: Exploring structural characteristics and computational chemistry models	A. M. Resmerita, C. Cojocaru, M. D. Damaceanu, M. Balan-Porcarasu, S. Shova, A. El-Haitanu, A. Farcas	Dyes and Pigments, 232, Article 112472/1-13 (2025)
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18. Sodium alginate as a green consolidant for waterlogged wood – A preliminary study	E. Villani, C. M. Popescu, M. Jancelewicz, V. Stagno, S. Capuani, M. Broda	Forests, 16, Article 325/1-22 (2025)
19. Synergistic antibacterial action of norfloxacin-encapsulated G4 hydrogels: The role of boronic acid and cyclodextrin	M. C. Sardaru, I. Rosca, S. Morariu, E. L. Ursu, A. Rotaru	Gels, 11, Article 35/1-16 (2025)
20. The investigation of Stefan Luchian heritage paintings - A multi-analytical approach	A. V. Oancea, B. Simionescu, L. E. Ursu, M. Murariu, M. Dobromir, M. Gheba, L. Stratulat	Heritage, 8, Article 26/1-21 (2025)
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22. Advancing the design of conductive composite cryogels based on hydroxypropyl cellulose derivatives for improving the compressibility and anti-freezing properties	R. I. Baron, G. Biliuta, D. Bejan, R. N. Darie-Nita, S. Coseri, M. V. Dinu	International Journal of Biological Macromolecules, 296, Article 139764/1-14 (2025)
23. Light energy-driven carbonic anhydrase mediate CO ₂ sequestration system with variable-temperature adaptability	X. Zhu, Z. Lv, L. Ren, Y. Qiang, X. Wang, T. Qiang, S. Coseri, B. He	International Journal of Biological Macromolecules, 298, Article 139696/1-11 (2025)
24. Deep eutectic solvents meet non-aqueous cosolvents: A modeling and simulation perspective: A tutorial review	L. de Villiers Engelbrecht, N. Cibotariu, X. Ji, A. Laaksonen, F. Mocci	Journal of Chemical and Engineering Data, 70, 19-43 (2025)
25. A green approach combining polyelectrolyte-based core-shell microparticles and laccase for indigo	L. M. Petrila, F. Bucatariu, I. Stoica, M. Mihai, R. Froidevaux	Journal of Environmental Chemical Engineering, 13, Article 115631/1-12 (2025)

- carmine degradation
26. Solution equilibrium and redox properties of metal complexes with 2-formylpyridine guanylhydrazone derivatives: Effect of morpholine and piperazine substitutions
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27. Novel 3-sulfonamide dual-tail pyrrol-2-one bridged molecules as potent human carbonic anhydrase isoform inhibitors: Design, synthesis, molecular modeling investigation, and anticancer activity in MeWo, SK-BR-3, and MG-63 cell lines
C. M. Al-Matarneh, N. Simionescu, A. Nicolescu, M. Silion, A. Angeli, N. Paoletti, A. Bonardi, P. Gratteri, M. Pinteala, C. Supuran
Journal of Medicinal Chemistry, 68, 1863-1882 (2025)
28. Real-time AFM analysis of the impact of CO₂ on solid-supported ionic liquid membranes
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29. Assembly and stability of trastuzumab-conjugated and unmodified poly(L-histidine)-poly(ethylene glycol) micelles for targeting HER2-positive cells
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30. Halogen bonding in 5-chloropyrazoles: Two new examples and a descriptive CSD investigation
M. M. Popa, S. Shova, I. C. Man, F. Dumitrascu
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31. Synthesis, structural and theoretical studies, and biological evaluation of a nickel(II) complex derived from N⁴-tetridentate 1,2,4-triazole-derived ligand as potential anti-Alzheimer's agent
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32. New lead-free iodoantimonatehalide semiconductor: Synthesis, structural characterization, DFT calculations, Hirshfeld surface, thermal behavior, vibrational and optical properties
C. Jridi, N. Elleuch, S. Shova, M. Boujelbene
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33. Comprehensive analysis of a novel antimony-based organic-inorganic hybrid material: structural, vibrational and Hirshfeld surface investigations of (C₈H₁₄N₂)[SbCl₅]
A. Alibi, N. Elleuch, S. Shova, M. Boujelbene
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34. Photochemistry of a proton relay system with triple fluorescence
M. I. Avadanei, R. I. Tigoianu, O. G. Avadanei
Journal of Photochemistry and Photobiology A: Chemistry, 459, Article 116018/1-17 (2025)
35. Exploring grain size and composition effects on the functional properties of Ba_GGe_xTi_{1-x}O₃ ceramics
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Journal of the European Ceramic Society, 45, Article 116997/1-9 (2025)
36. The thermal behavior of silicone-based composite materials and the assessment of the gases that result from the thermal degradation process
A. Soroceanu, A. M. Serban, N. Tudorachi, M. Avadanei
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37. Polymer-free electrospinning of β-cyclodextrin-oligolactide for magnolol and honokiol pharmaceutical
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39.	Enhanced light and electronic properties of a dihydrate iron(II) sulfate complex with 2,6-diaminopyridinium	O. Mastouri, E. Bouaziz, S. Shova, M. Boujelbene	Polyhedron, 267, Article 117335/1-9 (2025)
40.	MALDI MS quantification of transesterification reactions in β -cyclodextrin-oligolactides systems	D. A. Blaj, C. Peptu	Polymer, 317, Article 127978/1-11 (2025)
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46.	The hidden power of a novel collagen octapeptide: Unveiling its antioxidant and cofactors releasing capacity from polyurethane based systems	A. Lupu, L. M. Gradinaru, M. Balan-Porcarasu, L. Darie-Ion, B. A. Petre, V. R. Gradinaru	Reactive and Functional Polymers, 207, Article 106131/1-11 (2025)
47.	Effects of biofiltration on the physical-chemical-biological profile of the aerial plants used for toluene removal from waste air, revealing new opportunities for circular economy	G. Lisa, I. Cretescu, C. Tanase, C. Mardari, N. Tudorachi, A. C. Enache, P. Samoila, G. Soreanu	Renewable and Sustainable Energy Reviews, 207, Article 114890/1-12 (2025)
48.	Characterization, structural study, Hirshfeld surface, vibrational properties and thermal analysis of a supramolecular hybrid compound: (C ₆ H ₁₄ N ₂) ₄ .(TeBr ₆) _{3.2} (Br)	M. Mhiri, S. Shova, M. Boujelbene	Results in Chemistry, 13, Article 101969/1-12 (2025)
49.	Signature of electronically excited states in Raman spectra of azobenzene derivatives. Computational and experimental approaches	D. L. Isac, E. Rosca, A. Airinei, E. L. Ursu, R. Puf, I. C. Man, A. Neamtu, A. Laaksonen	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 332, Article 125828/1-13 (2025)
50.	Interchangeable films made from cellulose acetate and different types of carbon nanotubes with humidity sensing capabilities	M. E. Bistriceanu, A. L. Chibac-Scutaru, F. Tudorache, S. Zhang, S. Coseri	Sustainable Materials and Technologies, 43, Article e01237/1-15 (2025)

