

**Lista lucrari 2025**

1. Thermal actuators relying on elastomer-dispersed liquid crystals: From imines with supramolecular chirality and ferroelectricity to soft robots  
M. Damoc, C. Ursu, V. Tiron, G. Bulai, A. C. Stoica, A. M. Macsim, C. D. Varganici, A. Bele, M. Dascalu, M. Cazacu  
ACS Applied Materials and Interfaces, 17, 4185-4198 (2025)
2. Self-assembling prodrugs  
S. S. Maier, M. Pinteala, A. Angeli, C. T. Supuran  
Advances in Prodrugs. Design and Therapeutic Applications, C. T. Supuran, A. Angeli, D. Tanini, Eds., Elsevier, Amsterdam, 113-151 (2025)
3. Influence of flexible substrate nature covered with ITO on the characteristics of organic heterostructures fabricated by laser deposition techniques  
M. Socol, N. Preda, A. Costas, G. Petre, A. Stanculescu, I. Stavarache, G. Popescu-Pelin, S. Iftimie, A. Stoichioiu, A. M. Catargiu, G. Socol  
Applied Physics A: Materials Science and Processing, 131, Article 17/1-14 (2025)
4. In situ and partial in situ synthesis of cellulose magnetite/maghemite composites  
R. Rotaru, M. E. Fortuna, E. Ungureanu, O. Ungureanu, A. Dascalu, V. Harabagiu  
Applied Sciences, 15, Article 492/1-14 (2025)
5. Atmospheric pressure plasma synthesis of adaptable coatings based on castor oil urethane dimethacrylate and their properties  
E. R. Ionita, M. D. Ionita, A. Moldovan, C. Surdu-Bob, V. Melinte, A. L. Chibac-Scutaru, A. Lazea-Stoyanova  
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6. Influence of the sequential purification of biomass-derived carbon dots on their colloidal and optical properties  
A. S. Gonzales-Vera, C. A. Pineda-Arellano, A. Ramirez-Monroy, J. Matos, L. F. Chazaro-Ruiz, J. R. Rangel-Mendez, C. O. Ania  
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7. Enhancing flucytosine anticandidal activity using PEGylated squalene nanocarrier  
B. F. Craciun, I. Rosca, D. Peptanariu, M. Pinteala  
ChemMedChem, 20, Article e202400432/1-11 (2025)
8. 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)
9. A thiophene-based bisazomethine and its inclusion complex with permethylated -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)
10. Synergistic antibacterial action of  
M. C. Sardaru, I.  
Gels, 11, Article 35/1-16 (2025)

11. norfloxacin-encapsulated G4 hydrogels: The role of boronic acid and cyclodextrin  
The investigation of Stefan Luchian heritage paintings - A multi-analytical approach  
Rosca, S. Morariu, E. L. Ursu, A. Rotaru A. V. Oancea, B. Simionescu, L. E. Ursu, M. Murariu, M. Dobromir, M. Gheba, L. Stratulat  
Heritage, 8, Article 26/1-21 (2025)
12. Synthesis, characterization and antioxidative capacity of nickel(II) and Zn(II) complexes with 4-methylpyrazole  
D. Kokovic, B. Barta Hollo, I. Borisev, V. Leovac, L. Vojinovic Jesic, G. Giester, S. Shova, Z. D. Tomic, Z. Jacimovic  
Inorganica Chimica Acta, 574, Article 122363/1-10 (2025)
13. 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)
14. 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 G. T. Gatszegi, T. V. Petrasheuskaya, N. V. May, B. Hajdu, G. Spengler, F. Bacher, S. Shova, V. B. Arion, E. A. Enyedy  
Journal of Chemical and Engineering Data, 70, 19-43 (2025)
15. Solution equilibrium and redox properties of metal complexes with 2-formylpyridine guanylhydrazone derivatives: Effect of morpholine and piperazine substitutions  
K. X. Li, W. W. Wang, Y. Ding, T. Wang, L. Sun, X. Y. Ji, A. Laaksonen, B. W. Mao, J. W. Yan  
Journal of Inorganic Biochemistry, 264, Article 112812/1-14 (2025)
16. Real-time AFM analysis of the impact of CO<sub>2</sub> on solid-supported ionic liquid membranes  
R. Ghiarasim, G. Luta, M. G. Dimofte, T. G. Iversen, M. Pinteala, A. Rotaru M. M. Popa, S. Shova, I. C. Man, F. Dumitrascu  
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17. Assembly and stability of trastuzumab-conjugated and unmodified poly(L-histidine)-poly(ethylene glycol) micelles for targeting HER2-positive cells  
Y. Herasymenko, M. O. Plutenko, D. M. Khomenko, M. S. H. Faizi, S. Shova, I. A. Golenya, R. D. Lampeka, I. O. Fritsky  
Journal of Molecular Liquids, 418, Article 126689/1-12 (2025)
18. Halogen bonding in 5-chloropyrazoles: Two new examples and a descriptive CSD investigation  
C. Jridi, N. Elleuch, S. Shova, M. Boujelbene  
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19. Synthesis, structural and theoretical studies, and biological evaluation of a nickel(II) complex derived from N<sup>4</sup>-tetradentate 1,2,4-triazole-derived ligand as potential anti-Alzheimer's agent  
A. Alibi, N. Elleuch, S. Shova, M. Boujelbene  
Journal of Molecular Structure, 1321(Part 5), Article 140121/1-10 (2025)
20. New lead-free iodoantimonatehalide semiconductor: Synthesis, structural characterization, DFT calculations, Hirshfeld surface, thermal behavior, vibrational and optical properties  
A. Alibi, N. Elleuch, S. Shova, M. Boujelbene  
Journal of Molecular Structure, 1321, Article 139781/1-14 (2025)
21. Comprehensible analysis of a novel antimony-based organic-inorganic hybrid material: structural, vibrational and Hirshfeld surface investigations of

	(C8H14N2)[SbCl5]		
22.	Photochemistry of a proton relay-system with triple fluorescence	M. I. Avadanei, R. I. Tigoianu, O. G. Avadanei N. Horchidan, V. A. Lukacs, M. Asandulesa, G. Stoian, C. E. Ciomaga, L. Mitoseriu	Journal of Photochemistry and Photobiology A: Chemistry, 459, Article 116018/1-17 (2025)
23.	Exploring grain size and composition effects on the functional properties of BaGexTi1-xO3 ceramics		Journal of the European Ceramic Society, 45, Article 116997/1-9 (2025)
24.	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	Materials Science and Engineering B, 312, Article 117855/1-12 (2025)
25.	Polymer-free electrospinning of - cyclodextrin-oligolactide for magnolol and honokiol pharmaceutical formulations	D. A. Blaj, C. A. Peptu, M. Balan-Porcarasu, C. Peptu, C. G. Tuchilus, L. Ochiuz	Pharmaceutics, 17, Article 130/1-20 (2025)
26.	Orientation and rotation of cholesteric liquid crystals relative to a heat flow studied by molecular dynamics simulation and implications for the Lehmann effect	S. Sarman, A. Laaksonen	Physical Chemistry Chemical Physics, 27, 1132-1142 (2025)
27.	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)
28.	MALDI MS quantification of transesterification reactions in - cyclodextrin-oligolactides systems	D. A. Blaj, C. Peptu	Polymer, 317, Article 127978/1-11 (2025)
29.	Silicone composites with electrically boron nitride platelets and carbon nanofibers for thermal management of electronics	R. C. Ciobanu, M. Aflori, C. M. Scheiner, M. Aradoaei, D. Buncianu	Polymers, 17, Article 204/1-25 (2025)
30.	Poly(lactic-co-glycolic) acid nanoparticles with thermoresponsive shell for sustained release of dexamethasone	M. Constantin, S. Bucataru, L. Sacarescu, A. Coroaba, E. L. Ursu, G. Fundoreanu	Reactive and Functional Polymers, 206, Article 106107/1-14 (2025)
31.	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)
32.	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. Samoilă, G. Soreanu	Renewable and Sustainable Energy Reviews, 207, Article 114890/1-12 (2025)
33.	Characterization, structural study, Hirshfeld surface, vibrational properties and thermal analysis of a supramolecular hybrid compound: (C8H14N2)4•(TeBr6)3•2(Br)	M. Mhiri, S. Shova, M. Boujelbene	Results in Chemistry, 13, Article 101969/1-12 (2025)

34. Interchangeable films made from cellulose acetate and different types of carbon nanotubes with humidity sensing capabilities M. E. Bistrițeanu, A. L. Chibac-Scurtu, F. Tudorache, S. Zhang, S. Coseriu Sustainable Materials and Technologies, 43, Article e01237/1-15 (2025)