

Lista lucrari 2022

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| <ol style="list-style-type: none"> 1. Open-circuit voltage degradation by Mulliken electronegativity in multi-anchor organic dye-based dye-sensitized solar cells 2. Phosphonium-based ionic liquid significantly enhances SERS of cytochrome c in TiO₂ nanotube arrays 3. Electrospun copoly(ether imide) nanofibers doped with silver-loaded zeolite as materials for biomedical applications
 4. Optimization of arsenic removal from aqueous solutions using amidoxime resin hosted by mesoporous silica 5. Syntheses and structural characterization of the first coordination polymers assembled from the Ni(cyclam)²⁺ cation and the benzene-1,3,5-tricarboxylate linker 6. Crystal structure of bis{3-(3,4-dimethylphenyl)-5-[6-(1H-pyrazol-1-yl)pyridin-2-yl]-4H-1,2,3-triazol-4-ido}iron(II) methanol disolvate 7. Crystal structure of bis{3-[3,5-dichlorophenyl]-5-[6-1H-pyrazol-1-yl]pyridin-2-yl]-4H-1,2,4-triazol-4-ido}iron(II) methanol disolvate 8. Crystal structure of poly[(μ⁶-benzene-1,3,5-tricarboxylato)tris(1-methylpyrrolidin-2-one)nitratozinc (II)]
 9. Crystal structure of bis{3-(3-bromo-4-methoxyphenyl)-5-[6-(1H-pyrazol-1-yl)pyridin-2-yl]-1,2,4-triazol-3-ceto}iron(II) methanol disolvate 10. Crystal structure and Hirshfeld surface analysis of dichloridotetrakis(4-methyl-1H-pyrazole-kN2)nickel(II) acetonitrile disolvate 11. Crystal structure of poly[[diaquatetra-μ²-cyanido-platinum(II)iron(II)]methanol 4/3-solvate]: a three-dimensional Hofmann clathrate analogue 12. catena-Poly[[tetrakis(3,5-dimethyl-1H-pyrazole-kN2)copper(II)]-μ²-sulfato-k2O:O']: crystal structure and | <ol style="list-style-type: none"> C. P. Constantin, M. D. Damaceanu, M. Mihaila, M. Kusko Y. Dong, M. Gong, F. U. Shah, A. Laaksonen, R. An, X. Ji C. Hamciuc, T. Vlad-Bubulac, M. Bercea, D. M. Suflet, F. Doroftei, C. M. Rimbu, A. A. Enache, Y. Kalvachev, T. Todorova, M. Butnaru, D. Serbezeanu D. Humelnicu, M. Ignat, M. V. Dinu, E. S. Dragan S. P. Gavrish, S. Shova, Y. D. Lampeka K. Znoviyak, I. O. Fritsky, T. Y. Sliva, V. M. Amirkhanov, S. O. Malinkin, S. Shova, M. Seredyuk K. Znoviyak, M. Seredyuk, I. O. Fritsky, T. Y. Sliva, V. M. Amirkhanov, S. O. Malinkin, S. Shova S. P. Gavrish, S. Shova, Y. D. Lampeka K. Znoviyak, I. O. Fritsky, T. Y. Sliva, V. M. Amirkhanov, S. O. Malinkin, S. Shova, M. Seredyuk O. S. Vynohradov, Y. M. Davydenko, V. A. Pavlenko, D. D. Naumova, S. Shova, D. Petlovanyi V. M. Hiiuk, V. Mykhailovich, S. Shova, A. Golenya, I. A. Guralskiy O. S. Vynohradov, A. Dovzhik, V. A. Pavlenko, D. D. Naumova, I. A. | <p>ACS Applied Energy Materials, 5, 7600-7616 (2022)</p> <p>ACS Applied Materials and Interfaces, 14, 27456-27465 (2022)</p> <p>ACS Applied Polymer Materials, 4, 6080-6091 (2022)</p> <p>ACS Omega, 7, 31069-31080 (2022)</p> <p>Acta Crystallographica Section E: Crystallographic Communications, 78, 1122-1126 (2022)</p> <p>Acta Crystallographica Section E: Crystallographic Communications, 78, 1107-1112 (2022)</p> <p>Acta Crystallographica Section E: Crystallographic Communications, 78, 1173-1177 (2022)</p> <p>Acta Crystallographica Section E: Crystallographic Communications, 78, 1253-1256 (2022)</p> <p>Acta Crystallographica Section E: Crystallographic Communications, 78, 1138-1142 (2022)</p> <p>Acta Crystallographica Section E: Crystallographic Communications, 78, 1156-1160 (2022)</p> <p>Acta Crystallographica Section E: Crystallographic Communications, 78, 216-219 (2022)</p> <p>Acta Crystallographica Section E: Crystallographic Communications, 78, 433-438</p> |
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	Hirshfeld surface analysis of a Cu ^{II} coordination polymer	Golenya, S. Shova	(2022)
13.	Synthesis and crystal structure of diaqua(1,4,8,11-tetraazacyclotetradecane)zinc(II) bis(hydrogen 4-phosphonatobisphenyl-4'-carboxylato)(1,4,8,11-tetraazacyclotetradecane)zinc(II)	L. V. Tsymbal, I. L. Andriichuk, V. Lozan, S. Shova, Y. D. Lampeka	Acta Crystallographica Section E: Crystallographic Communications, 78, 625-628 (2022)
14.	Synthesis and crystal structure of bis[trans-diaqua(1,4,8,11-tetraazacyclotetradecane-k4N1,N4,N8,N11)nickel(II)] trans-(1,4,8,11-tetraazacyclotetradecane-k4N1,N4,N8,N11)bis [4,4',4''-(1,3,5-trimethylbenzene-2,4,6-tryil)tris(hydrogenphenylphosphonato-kO)]nickel(II) decahydrate	L. V. Tsymbal, R. Ardeleanu, S. Shova, Y. D. Lampeka	Acta Crystallographica Section E: Crystallographic Communications, 78, 750-754 (2022)
15.	Synthesis and crystal structure of hydrated μ-oxalato-bis{bis[3-methyl-5-(pyridin-2-yl)-1H-1,2,4-triazole iron(II)} bis(toluene sulfonate) 2.75-hydrate	Y. P. Petrenko, Y. S. Bibik, D. M. Khomenko, R. O. Doroshchuk, I. A. Guralskiy, S. Shova, R. D. Lampeka, I. V. Raspetova	Acta Crystallographica Section E: Crystallographic Communications, 78, 829-832 (2022)
16.	Superstretchable, self-healing, adhesive ionic conductive hydrogels based on tailor-made ionic liquid for high-performance strain sensors	X. Yao, S. Zhang, L. Qian, N. Wei, V. Nica, S. Coseri, F. Han	Advanced Functional Materials, 32, 2204565/1-14 (2022)
17.	Self-assembly of strongly amphiphilic Janus nanoparticles into freestanding membranes	V. Mihali, A. Honciuc	Advanced Materials Interfaces, 9, Article 2101713/1-8 (2022)
18.	Correlation between chemical structure and photoreactivity in UV curing formulations	M. J. M. Abadie, I. Manole, C. Fetecau	Advanced Materials, Polymers, and Composites. New Research on Properties, Techniques, and Applications, O. V. Mukbaniani, T. Tatrishvili M. J. M. Abadie, Eds., CRC Press, Apple Academic Press, Boca Raton, USA, 3-22 (2022)
19.	Study of pyrolysis kinetics on domestic plastic waste	N. M. M. Mita, M. F. Yusuf, M. Brebu, M. M. Sari, Sri Hastuty	AIP Conference Proceedings, 2645, Article 030006/1-9 (2022)
20.	Preparation of an antioxidant assembly based on a copolymacrolactone. Structure and erythritol following an eco-friendly strategy	A. P. Chiriac, A. Ghilan, A. M. Serban, A. M. Macsim, A. Bargan, F. Doroftei, V. M. Chiriac, L. E. Nita, A. G. Rusu, A. I. Sandu	Antioxidants, 11, Article 2471/1-20 (2022)
21.	Metal complexes-based catalysts for oxidation reactions as new alternatives for catalytic processes in production of bio-based polymers	M. F. Zaltariov	Applications of Biodegradable and Bio-Based Polymers for Human Health and a Cleaner Environment, I. Stoica, O. V. Mukbaniani, N. K. Rawat, A. K. Hagh, Eds., CRC Press, Apple Academic Press, Boca Raton, FL, USA, 149-168 (2022)

22. Current trends and perspectives in biodegradable polymers L. I. Buruiana, C. Logigan Applications of Biodegradable and Bio-Based Polymers for Human Health and a Cleaner Environment, I. Stoica, O. V. Mukbaniani, N. K. Rawat, A. K. Haghi, Eds., CRC Press, Apple Academic Press, Boca Raton, FL, USA, 169-188 (2022)
23. Surface modification and analysis of biodegradable biopolymer materials for various applications A. I. Barzic Applications of Biodegradable and Bio-Based Polymers for Human Health and a Cleaner Environment, I. Stoica, O. V. Mukbaniani, N. K. Rawat, A. K. Haghi, Eds., CRC Press, Apple Academic Press, Boca Raton, FL, USA, 189-222 (2022)
24. Poly(lactic acid)-based materials: Food packaging applications and biodegradability evaluation E. Stoleru Applications of Biodegradable and Bio-Based Polymers for Human Health and a Cleaner Environment, I. Stoica, O. V. Mukbaniani, N. K. Rawat, A. K. Haghi, Eds., CRC Press, Apple Academic Press, Boca Raton, FL, USA, 239-266 (2022)
25. New perspectives on development of nanocomposites based on biodegradable polymers and their tissue engineering applications S. L. Nica, D. M. Rata, C. Logigan Applications of Biodegradable and Bio-Based Polymers for Human Health and a Cleaner Environment, I. Stoica, O. V. Mukbaniani, N. K. Rawat, A. K. Haghi, Eds., CRC Press, Apple Academic Press, Boca Raton, FL, USA, 297-312 (2022)
26. Wood-based biopolymers as active elements in new green silicone composites G. Stiubianu, A. Bargan, M. Cazacu Applications of Biodegradable and Bio-Based Polymers for Human Health and a Cleaner Environment, I. Stoica, O. V. Mukbaniani, N. K. Rawat, A. K. Haghi, Eds., CRC Press, Apple Academic Press, Boca Raton, FL, USA, 3-52 (2022)
27. Molecular modeling and properties of chelate agents and their composites for treatment of heavy metal intoxication A. I. Barzic, R. M. Albu Applications of Biodegradable and Bio-Based Polymers for Human Health and a Cleaner Environment, I. Stoica, O. V. Mukbaniani, N. K. Rawat, A. K. Haghi, Eds., CRC Press, Apple Academic Press, Boca Raton, FL, USA, 439-458 (2022)
28. Rheological insights in development of biopolymer scaffolds A. I. Barzic, R. M. Albu Applications of Biodegradable and Bio-Based Polymers for Human Health and a Cleaner

29.	Bio-based polymers for liposomal drug formulations	M. F. Zaltariov, B. I. Ciubotaru, M. Savin, D. Filip, D. Macocinschi	Environment, I. Stoica, O. V. Mukbaniani, N. K. Rawat, A. K. Hagh, Eds., CRC Press, Apple Academic Press, Boca Raton, FL, USA, 53-76 (2022)
30.	One-pot reduction-hydrophobization of heterogenized platinum with 1,1,3,3-tetramethyldisiloxane	A. C. Stoica, M. Damoc, L. Baltag, A. M. Maxim, A. Nicolescu, M. V. Dinu, G. Ionita, M. Cazacu	Applied Organometallic Chemistry, 36, e6485/1-21 (2022)
31.	Synthesis, characterization, and some metal complexes of bis(isocyanide)disiloxane, showing catalytic activity	C. Racles, M. F. Zaltariov, M. Silion, M. Avadanei, A. M. Macsim, A. Nicolescu	Applied Organometallic Chemistry, 36, e6543/1-13 (2022)
32.	Equilibrium, kinetic, and thermodynamic studies of new materials based on xanthan gum and cobalt ferrite for dye adsorption	I. Spiridon, I. Apostol, N. C. Anghel, M. F. Zaltariov	Applied Organometallic Chemistry, 36, e6670/1-16 (2022)
33.	Editorial: Recent advances in atmospheric-pressure plasma technology	B. G. Rusu	Applied Sciences, 12, Article 10847/1-3 (2022)
34.	Eco-friendly synthesis and comparative in vitro biological evaluation of silver nanoparticles using Tagetes erecta flower extracts	A. F. Burlec, M. Hancianu, I. Macovei, C. Mircea, A. Fifere, I. A. Turin-Moleavin, C. Tuchilus, S. Robu, A. Corciova	Applied Sciences, 12, Article 887/1-20 (2022)
35.	On the chemistry, photocatalytical, and corrosion behavior of co-sputtered tantalum and titanium oxynitride thin films	D. Cristea, C. Croitoru, A. Marin, M. Dobromir, E. L. Ursu, I. L. Velicu, V. Craciun, L. Cunha	Applied Surface Science, 592, Article 153260/1-12 (2022)
36.	Thiophene-containing compounds with antimicrobial activity	G. Roman	Archiv der Pharmazie, 355, Article 2100462/1-62 (2022)
37.	Influence of synthesis conditions on the chemical structure and composition of ZnO nanoparticles composite systems/polymer fibers	G. Calin, L. Sachelarie, N. Olaru	Archives of Metallurgy and Materials, 67, 601-606 (2022)
38.	Life cycle assessment for eco-design in product development	G. Barjoveanu, C. Teodosiu, M. Mihai, I. Morosanu, D. Fighir, A. M. Vasiliu, F. Bucataru	Assessing Progress towards Sustainability: Frameworks, Tools and Case Studies, C. Teodosiu, S. Fiore, A. Hospido, Eds., Elsevier, 247-271 (2022)
39.	Scalable silicone composites for thermal management in flexible stretchable electronics	G. T. Stiubianu, A. Bele, M. Grigoras, C. Tugui, B. I. Ciubotariu, M. F. Zaltariov, F. Borza, L. G. Bujoreanu, M. Cazacu	Batteries, 6, Article 95/1-17
40.	Nanostructured hyaluronic acid-	A. G. Rusu, A. P. Chiriac,	Biochemical Engineering

	based hydrogels encapsulating synthetic/natural hybrid nanogels as promising wound dressing	L. E. Nita, A. Ghilan, D. Rusu, N. Simionescu, L. Mititelu Tartau	Journal, 179, Article 108341/1-12 (2022)
41.	Synthetic macromolecules with biological activity	S. Racovita, M. Popa, L. I. Atanase, S. Vasiliu	Biological Macromolecules. Bioactivity and Biomedical Applications, A. K. Nayak, A. K. Dhara, D. Pal, Eds., Academic Press, 305-335 (2022)
42.	Hydrophobic composites designed by a nonwoven cellulose-based material and polymer/CaCO ₃ patterns with biomedical applications	A. L. Vasiliu, M. M. Zaharia, M. M. Bazarghideanu, I. Rosca, D. Peptanariu, M. Mihai	Biomacromolecules, 23, 89-99 (2022)
43.	Characterization of bark, needles and cones from silver fir (<i>Abies alba</i> mill.) towards valorization of biomass forestry residues	E. Butnaru, D. Pamfil, E. Stoleru, M. Brebu	Biomass and Bioenergy, 159, 106413/1-14 (2022)
44.	Development of a new polymer network system carrier of essential oils	A. P. Chiriac, E. Stoleru, I. Rosca, A. Serban, L. E. Nita, A. G. Rusu, A. Ghilan, A. M. Macsim, L. Mititelu-Tartau	Biomedicine and Pharmacotherapy, 149, Article 112919/1-10 (2022)
45.	Natural polymers in heart valve tissue engineering: Strategies, advances and challenges	D. E. Ciolacu, R. Nicu, F. Ciolacu	Biomedicines, 10, Article 1095/1-66 (2022)
46.	Biopolymers and their derivatives: Key components of advanced biomedical technologies	I. A. Duceac, S. Coseri	Biotechnology Advances, 61, Article 108056/1-35 (2022)
47.	Iminoboronate-chitooligosaccharides hydrogels with strong antimicrobial activity for biomedical applications	D. Ailincăi, I. Rosca, S. Morariu, L. Mititelu-Tartau, L. Marin	Carbohydrate Polymers, 276, Article 118727/1-16 (2022)
48.	Biocompatible drug delivery systems able to co-deliver antifungal and antiviral agents	D. Ailincăi, M. Bercea, L. Mititelu-Tartau, L. Marin	Carbohydrate Polymers, 298, Article 120071/1-14 (2022)
49.	Rheological behavior of carbon nanotubes-based materials and its role in processing into various products	A. I. Barzic	Carbon Nanotubes for a Green Environment. Balancing the Risks and Reward, S. Kulkarni, I. Stoica, A. K. Haghi, Eds., CRC Press, Apple Academic Press, Boca Raton, FL, USA, 185-208 (2022)
50.	FTIR spectroscopy for carbon nanotube-based nanomaterials in biomedical applications	M. Drobota, M. A. Lungan, I. Radu	Carbon Nanotubes for a Green Environment. Balancing the Risks and Reward, S. Kulkarni, I. Stoica, A. K. Haghi, Eds., CRC Press, Apple Academic Press, Boca Raton, FL, USA, 233-256 (2022)
51.	Carbon nanotube-based materials: Promising materials for advanced biomedical applications	S. L. Nica, D. M. Rata	Carbon Nanotubes for a Green Environment. Balancing the Risks and Reward, S. Kulkarni, I. Stoica, A. K. Haghi, Eds., CRC Press, Apple Academic Press, Boca Raton, FL, USA, 273-290 (2022)
52.	Thermal and electrical transport in	A. I. Barzic	Carbon Nanotubes for a Green

	nanotubes composites	Environment. Balancing the Risks and Reward, S. Kulkarni, I. Stoica, A. K. Haghi, Eds., CRC Press, Apple Academic Press, Boca Raton, FL, USA, 209-232 (2022)
53.	Burst-free and sustained release of diclofenac sodium from mesoporous silica/PEI microspheres coated with carboxymethyl cellulose/chitosan layer-by-layer films	C. A. Ghiorghita, M. V. Dinu, E. S. Dragan Cellulose, 29, 395-412 (2022)
54.	Cellulose surface modification for improved attachment of carbon nanotubes	M. E. Culica, R. Rotaru, D. Bejan, A. Coroaba, T. Mohan, S. Coseri Cellulose, 29, 6057-6076 (2022)
55.	Cellulose derivatives/barium titanate composites with high refractive index, conductivity and energy density	A. I. Barzic, M. Soroceanu, R. Rotaru, F. Doroftei, M. Asandulesa, C. Tugui, I. A. Dascalu, V. Harabagiu Cellulose, 29, 863-878 (2022)
56.	Convertible cellulosic platforms with manageable loads of 1-hydroxybenzotriazole: their preparation and conductive behavior	M. E. Culica, A. L. Chibac-Scutaru, M. Asandulesa, V. Melinte, C. Cojocaru, S. Coseri Cellulose, 29, 9847-9863 (2022)
57.	Copper oxide nanostructures: Preparation, structural, dielectric and catalytic properties	C. Gherasim, P. Pascariu, M. Asandulesa, M. Dobromir, F. Doroftei, N. Fifere, A. Dascalu, A. Airinei Ceramics International, 48, 25556-25568 (2022)
58.	Ultrasound assisted synthesis of heterostructurated TiO ₂ /ZnFe ₂ O ₄ and TiO ₂ /ZnFe _{1.98} La _{0.02} O ₄ systems as tunable photocatalysts for efficient organic pollutants removal	C. Coromelci, M. Neamtu, M. Ignat, P. Samoila, M. F. Zaltariov, M. Palamaru Ceramics International, 48, 4829-4840 (2022)
59.	New La ³⁺ doped TiO ₂ nanofibers for photocatalytic degradation of organic pollutants: Effects of thermal treatment and doping loadings	P. Pascariu, C. Cojocaru, M. Homocianu, P. Samoila, A. Dascalu, M. Suchea Ceramics International, 48, 4953-4964 (2022)
60.	Aziridinium cation templating 3D lead halide hybrid perovskites	H. R. Petrosova, O. I. Kucheriv, S. Shova, I. A. Guralskiy Chemical Communications, 58, 5745-5748 (2022)
61.	Pt(II)-A2B2 metalloporphyrin-Au NPs hybrid material suitable for optical detection of 1-anthraquinonsulfonic acid	I. Fringu, A. Lascu, A. M. Macsim, I. Fratilescu, C. Epuran, M. Birdeanu, E. Fagadar-Cosma Chemical Papers, 76, 2513-2527 (2022)
62.	Carbon nanotubes from an in silico perspective	F. Mocci, L. de Villiers Engelbrecht, C. Olla, A. Cappai, M. F. Casula, C. Melis, L. Stagi, A. Laaksonen, C. M. Carbonaro Chemical Reviews, 122, 13709-13799 (2022)
63.	Four-step spin crossover in a new cyano-bridged iron-silver coordination polymer	O. I. Kucheriv, S. I. Shylin, V. Y. Sirenko, V. Ksenofontov, W. Tremee, I. A. Dascalu, S. Shova, I. A. Guralskiy Chemistry - A European Journal, 28, e202200924/1-7 (2022)
64.	Plant biostimulants for enhanced	D. Constantinescu Chemistry Proceedings, 7,

	sustainability of high-residue farming systems	Aruxandei, S. Brooks, A. Nicolescu, S. Shaposhnikov, F. Georgescu, L. A. Pairault, L. Marin, C. Deleanu, F. Oancea	Article 16/1-3 (2022)
65.	Polymer/enzyme composite materials - Versatile catalysts with multiple applications	L. M. Petrila, R. V. Gradinaru, F. Bucatariu, M. Mihai	Chemistry, 4, 1312-1338 (2022)
66.	Progress on polymers containing imide rings for advanced technologies: A contribution from ICMPP of the Romanian Academy	M. D. Damaceanu	Chemistry, 4, 1339-1359 (2022)
67.	Evaluation of the adsorptive potential of zeolite volcanic tuff in single and binary aqueous solution of Basic Blue 41/cationic dye	M. E. Ignat, V. Dulman, L. Ignat, M. Ignat, I. Humelnicu	ChemistrySelect, 7, Article e202104460/1-13 (2022)
68.	Anticancer activity of Mannich bases: A review of recent literature	G. Roman	ChemMedChem, 17, e202200258/1-27 (2022)
69.	Excellent cooperation between carboxyl-substituted porphyrins, κ-carrageenan and AuNPs for extended application in CO ₂ capture and manganese ion detection	C. Epuran, I. Fratilesescu, A. M. Macsim, A. Lascau, C. Ianasi, M. Birdeanu, E. Fagadar-Cosma	Chemosensors, 10, Article 133/1-14 (2022)
70.	Spectroscopic recognition of metal ions and non-linear optical (NLO) properties of some fluorinated poly(1,3,4-oxadiazole-ether)s	M. Homocianu, A. Airinei, A. M. Ipate, C. Hamciuc	Chemosensors, 10, Article 138/1-16 (2022)
71.	Stable and reusable acrylic ion-exchangers. From HMs highly polluted tailing pond to safe and clean water	M. M. Zaharia, F. Bucatariu, A. L. Vasiliu, M. Mihai	Chemosphere, 304, Article 135383/1-8 (2022)
72.	Structural characterization of a new collagen biomimetic octapeptide with nanoscale self-assembly potential: Experimental and theoretical approaches	C. S. Mocanu, B. A. Petre, L. Darie-Ion, G. Drochioiu, M. Neculaua, I. Stoica, M. Homocianu, L. E. Nita, V. R. Gradinaru, C. Cojocaru	ChemPlusChem., 87, e202100462/1-11 (2022)
73.	Modelarea unor procese in stiinta si ingineria mediului		Chimie Ecologica: Istorie si Realizari, CEP USM, Chisinau, 160-175 (2022)
74.	Novel hydrophobic nanostructured antibacterial coatings for metallic surface protection	C. L. Nistor, C. I. Mihaescu, D. Bala, I. C. Gifu, C. M. Ninciuleanu, S. G. Burlacu, C. Petcu, M. G. Vladu, A. Ghebaur, L. Stroea, L. O. Cintea F. Bucatariu, M. M. Zaharia, L. M. Petrila, F. Simon, M. Mihai	Coatings, 12, Article 253/1-25 (2022)
75.	Sand/polyethyleneimine composite microparticles: Eco-friendly, high selective and efficient heavy ion catchers		Colloids and Surfaces A: Physicochemical and Engineering Aspects, 649, Article 129540/1-12 (2022)
76.	New shielding covers based on transparent polyimide/ferrous sulfide composites that reduce optical losses in solar cells	A. I. Barzic, R. M. Albu, I. Stoica, C. Hulubei	Composite Science and Technology, 218, Article 109140/1-12 (2022)
77.	Influence of fuel nature on sol-gel microwave-ignited combustion	E. Mahu, P. Samoila, M. Ignat, C. Cojocaru, V.	Comptes Rendus. Chimie, 25, 189-202 (2022)

	synthesis of nanosized cobalt and nickel spinel ferrites	Harabagiu	
78.	Innovative nanostructured magnetite/wool/polysiloxane composite as magnetic adsorbent for oil spill removal	B. C. Condurache, C. Cojocaru, P. Pascariu, P. Samoila, V. Harabagiu	Comptes Rendus. Chimie, 25, 245-260 (2022)
79.	Versatile nanostructured SiO ₂ /crosslinked polyelectrolyte compositions for emerging pollutants removal from aqueous media	F. Bucataru, L. M. Petrila, C. Teodosiu, M. Mihai	Comptes Rendus. Chimie, 25, 95-108 (2022)
80.	Advanced and biomedical applications of Schiff-base ligands and their metal complexes: A review	A. Soroceanu, A. Bargan	Crystals, 12, Article 1436/1-15 (2022)
81.	New cyanido-bridged complexes of Zn(II) and/or Ag(I) with TNymT and TptZ ligands: Synthesis, structural and fluorescent properties	D. Visinescu, S. Shova, D. L. Popescu, M. G. Alexandru	Crystals, 12, Article 1618/1-10 (2022)
82.	Vasodilatation of pre-contracted porcine retinal arteries by carbonic anhydrase inhibitors with enhanced lipophilicity	T. Eysteinsson, A. Garcia-Llorca, A. Angeli, C. T. Supuran, F. Carta	Current Eye Research, 47, 1615-1621 (2022)
83.	Chiral 2D organic-inorganic hybrid perovskites based on L-histidine	V. Y. Sirenko, O. I. Kucheriv, E. Gumienna-Kontecka, S. Shova, I. A. Guralskiy	Dalton Transactions, 51, 16536-16544 (2022)
84.	1D iron(II)-1,2,4-triazolic chains with spin crossover assembled from discrete trinuclear complexes	S. Shylin, S. Shova, H. J. Shepherd, V. Ksenofontov, W. Tremel, I. Guralskiy	Dalton Transactions, 51, 2364-2369 (2022)
85.	Diastereometric dinickel(II) complexes with non-innocent bis(octoazamacrocyclic) ligands: isomerization, spectroelectrochemistry, DFT calculations and use in catalytic oxidation of cyclohexane	A. Dobrov, D. Darvasiova, M. Zalibera, L. Bucinsky, I. Jelemenska, P. Rapti, S. Shova, D. G. Dumitrescu, M. A. Andrade, L. M. D. R. S. Martins, A. J. L. Pombeiro, V. B. Arion L. A. Stanculescu, A. Scafă, C. Duduianu, R. Stan, A. Nicolescu, C. Deleanu, M. Dorobantu C. Stavarache, A. Nicolescu, C. Duduianu, G. L. Ailișeai, M. Balan-Porcarasu, M. Cristea, A. M. Macsim, O. Popa, C. Stavarache, A. Hirtopeanu, L. Barbes, R. Stan, H. Iovu, C. Deleanu R. D. Rusu, S. Ursache, M. D. Damaceanu, C. P. Constantin	Dalton Transactions, 51, 5151-5167 (2022)
86.	Lipoprofiling assessed by NMR spectroscopy in patients with acute coronary syndromes: Is there a need for fasting prior to sampling		Diagnostics, 12, Article 1675/1-18 (2022)
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176.	Thermosensitive gels of pullulan and poloxamer 407 as potential injectable biomaterials	M. Bercea, M. Constantin, I. A. Plugariu, M. O. Daraba, D. L. Ichim I. Buta, S. Shova, S. Ilies, F. Manea, M. Andruh, O. Costisor	Journal of Molecular Liquids, 362, Article 119717/1-11 (2022) Journal of Molecular Structure, 1248, Article 131439/1-13 (2022)
177.	Mono- and oligonuclear complexes based on a <i>o</i> -vanillin derived Schiff-base ligand: Synthesis, crystal structure, luminescent and electrochemical properties		
178.	Ni(II), Pd(II) and Pt(II) complexes of N,N-bis(3,3-dimethyl-allyl)-dithiocarbamate: Synthesis, spectroscopic characterization, antimicrobial and molecular docking studies	M. M. Hrubaru, E. Bartha, A. C. Ekennia, S. N. Okafor, C. D. Badiceanu, D. A. Udu, D. C. Onwudiwe, S. Shova, C. Draghici I. A. Dascalu, D. L. Isac, S. Shova, M. Balan-Porcarasu, N. L. Marangoci, M. Pinteala, C. Janiak	Journal of Molecular Structure, 1250, Article 131649/1-13 (2022)
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184.	Synthesis, structural characterization, photophysical study and investigation as fluorescent sensor towards metal ions of 1,2,3-triazole-azaindene hybrids	L. Sacarescu, M. Dascalu, A. L. Chibac-Scutaru, G. Roman	Journal of Photochemistry and Photobiology A: Chemistry, 433, Article 114160/1-13 (2022)
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196.	Multifunctional composites of zwitterionic resins and silver nanoparticles for point-of-demand antimicrobial applications	M. M. Zaharia, C. A. Ghiorghita, M. A. Trofin, F. Doroftei, I. Rosca, M. Mihai	Materials Chemistry and Physics, 275, Article 125225/1-10 (2022)
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203.	Poly(vinyl alcohol)/plant extracts films: Preparation, surface characterization and antibacterial studies against Gram positive and Gram negative bacteria	M. Barbalata-Mandru, D. Serbezeanu, M. Butnaru, C. M. Rimbu, A. A. Enache, M. Aflori	Materials, 15, Article 2493/1-22 (2022)
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214.	Evaluation of the sublimation process of some purine derivatives:		Materials, 15, Article 7376/1-11 (2022)

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220.	Complementary powerful techniques for investigating the interactions of proteins with porous TiO ₂ and its hybrid materials: A tutorial review	Y. Dong, W. Lin, A. Laaksonen, X. Ji	Membranes, 12, Article 415/1-20 (2022)
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222.	Enhanced visible light activated mesoporous titania by rare earth metal doping	C. Coromelci, M. Ignat, L. Sacarescu, M. Neamtu	Microporous and Mesoporous Materials, 341, Article 112072/1-10 (2022)
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224.	Phyto-functionalized silver nanoparticles derived from conifer bark extracts and evaluation of their antimicrobial and cytogenotoxic effects	I. Macovei, S. V. Luca, K. Skalicka-Wozniak, L. Sacarescu, P. Pascariu, A. Ghilan, F. Doroftei, E. L. Ursu, C. M. Rimbu, C. Horhogea, C. Lungu, G. Vochita, A. D. Panainte, C. Nechita, M. A. Corciova, A. Miron	Molecules, 27, Article 217/1-21 (2022)
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226.	Drug-loaded polymeric particulated systems for ophthalmic drugs release	R. Mihai, A. Croitoriu, F. Nedeff, V. Nedeff, L. Ochiuz, D. Vasincu, O.	Molecules, 27, Article 4512/1-26 (2022)

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229.	Cobalt ferrite particles produced by sol-gel autocombustion and embedded in polysilane: An innovative route to magnetically induced fluorescence composites	P. Samoila, C. Cojocaru, M. Simionescu, G. Sacarescu, G. Roman, A. C. Enache, L. Sacarescu	Molecules, 27, Article 6393/1-16 (2022)
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260.	Dermatocosmetic emulsions based on resveratrol, ferulic acid and Safron (<i>Crocus sativus</i>) extract to combat skin oxidative stress - trigger factor of some potential malignant effects: Stability studies and rheological properties	D. Turcov, A. S. Barna, A. C. Blaga, C. Ibanescu, M. Danu, A. Trifan, A. Zbranca, D. Suteu	Pharmaceutics, 14, Article 2376/1-17 (2022)
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262.	Chemical attachment of 5-nitrosalicylaldimine motif to silatrane resulting in an organic-inorganic structure with medicinal signature	M. F. Zaltarov, M. Turtoi, D. Peptanaru, A. M. Maxim, L. Clima, C. Cojocaru, N. Vornicu, A.	Pharmaceutics, 14, Article 2838/1-23 (2022)

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