

Lista lucrari 2021

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| <ol style="list-style-type: none"> 1. Semiconductor-insulator (nano)-couples with tunable properties obtained from asymmetric modification of Janus nanoparticles 2. MnAl-layered double hydroxide nanosheets infused with fluorouracil for cancer diagnosis and therapy 3. Molecular dynamics and conductivity of a PTB7: PC71BM photovoltaic polymer blend: A dielectric spectroscopy study 4. Photochemical aging of eco-friendly wood coatings derived from vegetable oils 5. Crystal structure of $[(\text{Ni}(\text{C10H24N4})][\text{Ni}(\text{CN})_4] \cdot 2\text{H}_2\text{O}]_n'$, a one-dimensional coordination polymer formed from the $[\text{Ni}(\text{cyclam})]^{2+}$ cation and the $[\text{Ni}(\text{CN})_4]^{2-}$ anion 6. Crystal structure and Hirschfeld surface analysis of di-μ-chlorido-bis(acetonitrile-$k\text{N}$)chlorido(ethyl 5-methyl-1H-pyrazole-3-carboxylate-$k2\text{N}2$, O) copper(II)] 7. Crystal structures of $\text{Zn}(\text{cyclam})\text{I}_2$ (second monoclinic polymorph) and $\text{Zn}(\text{cyclam})\text{I}(\text{I}3)$ 8. Crystal structure of 9-aminoacridinium chloride N,N-dimethylformamide monosolvate 9. Crystal structure of (N1,N3-bis([1-(4-methoxybenzyl)-1H-1,2,3-triazol-4-yl)methylidene]-2,2-dimethylpropane-1,3-diamine)bis(thiocyanato)iron(II) 10. Crystal structure of {N1,N3-bis[(1-tert-butyl-1H-1,2,3-triazol-4-yl)methylidene]-2,2-dimethylpropane-1,3-diamine}bis(thiocyanato)iron(II) 11. Dynamic constitutional frameworks as antibacterial and antibiofilm agents 12. Dual carbonic anhydrase IX/XII inhibitors and carbon monoxide releasing molecules modulate LPS-mediated inflammation in mouse macrophages | <p>V. Mihali, A. Honciuc</p> <p>B. Dragoi, C. M. Uritu, L. Agrigoroaie, D. Lutic, V. Hulea, G. Postole, A. Coroaba, E. Carasevici
M. Asandulesa, S. Kostromin, A. Tarneev, A. Aleksandrov, S. Bronnikov</p> <p>D. Rosu, F. R. Mustata, L. Rosu, C. D. Varganici</p> <p>L. V. Tsymbal, I. L. Andriichuk, S. Shova, Y. D. Lampeka</p> <p>O. S. Vynohradov, V. A. Pavlenko, O. I. Kucheriv, I. A. Golenya, D. Petlovanyi, S. Shova
S. P. Gavrish, S. Shova, Y. D. Lampeka</p> <p>I. O. Fritsky, V. Y. Sirenko, S. Shova, O. I. Kucheriv, I. A. Guralskiy</p> <p>K. Znoviyak, M. Seredyuk, S. O. Malinkin, I. A. Golenya, T. Y. Sliva, S. Shova, N. U. Mulloev</p> <p>K. Znoviyak, M. Seredjuk, S. O. Malinkin, I. O. Golenya, V. M. Amirkhanov, S. Shova, N. U. Mulloev</p> <p>A. Diaconu, T. Coenye, M. Barboiu, S. P. Vincent</p> <p>E. Berrino, S. Carradori, A. Angelini, F. Carta, C. T. Supuran, P. Guglielmi, C. Coletti, R. Paciotti, H. Schweikl, F. Maestrelli, E. Cerbai, M. Gallorini</p> | <p>ACS Applied Materials and Interfaces, 13, 49206-49214 (2021)</p> <p>ACS Applied Nano Materials, 4, 2061-2075 (2021)</p> <p>ACS Applied Polymer Materials, 13, 4869-4878 (2021)</p> <p>ACS Applied Polymer Materials, 3, 6303-6314 (2021)</p> <p>Acta Crystallographica Section E: Crystallographic Communications, 77, 1140-1143 (2021)</p> <p>Acta Crystallographica Section E: Crystallographic Communications, 77, 1153-1157 (2021)</p> <p>Acta Crystallographica Section E: Crystallographic Communications, 77, 1185-1189 (2021)</p> <p>Acta Crystallographica Section E: Crystallographic Communications, 77, 1303-1306 (2021)</p> <p>Acta Crystallographica Section E: Crystallographic Communications, 77, 495-499 (2021)</p> <p>Acta Crystallographica Section E: Crystallographic Communications, 77, 573-578 (2021)</p> <p>Angewandte Chemie International Edition, 60, 22505-22512 (2021)</p> <p>Antioxidants, 10, Article 56/1-24 (2021)</p> |
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13.	New insights on hemp oil enriched in cannabidiol: Decarboxylation, antioxidant properties and in vitro anticancer effect	A. R. Petrovici, N. Simionescu, A. I. Sandu, V. Paraschiv, M. Silion, M. Pinteala	Antioxidants, 10, Article 738/1-24 (2021)
14.	The implication of reactive oxygen species and antioxidants in knee osteoarthritis	N. B. Tudorachi, E. Eftimie Totu, A. Fifere, V. Ardeleanu, V. Mocanu, C. Mircea, I. Isildak, K. Smikov, E. M. Carausu A. I. Barzic	Antioxidants, 10, Article 985/1-29 (2021)
15.	Processing relation to rheological behavior of some systems containing green polymers		Applied Biopolymer Technology and Bioplastics. Sustainable Development by Green Engineering Materials, N. K. Rawat, T. G. Volova, A. K. Hagh, Eds., Apple Academic Press, Boca Raton, USA, 1-22 (2021)
16.	Self-assemblies of macromolecular systems containing green polymers	A. I. Barzic, R. M. Albu, C. Logigan	Applied Biopolymer Technology and Bioplastics. Sustainable Development by Green Engineering Materials, N. K. Rawat, T. G. Volova, A. K. Hagh, Eds., Apple Academic Press, Boca Raton, USA, 241-258 (2021)
17.	New heterogeneous catalysts containing platinum group metals recovered from a spent catalytic converter	C. Racles, M. F. Zaltarioiu, A. Coroaba, M. Silion, C. Diac, A. Dascalu, M. Iacob, M. Cazacu G. Lupascu, E. Pahontu, S. Shova, S. F. Barbuceanu, M. Badea, C. Paraschivescu, J. Neamtu, M. Dinu, R. V. Ancuceanu, D. Dragănescu, C. E. Dinu-Pirvu	Applied Organometallic Chemistry, 35, e6417/1-14 (2021)
18.	Co(II), Cu(II), Mu(II), Ni(II), Pd(II), and Pt(II) complexes of bidentate Schiff base ligand: Synthesis, crystal structure and acute toxicity evaluation	L. Kiss, A. Pop, S. Shova, C. I. Rat, C. Silvestru	Applied Organometallic Chemistry, 35, e6149/1-20 (2021)
19.	Synthesis and characterization of [4- $\{(CH_2O)_2CH\}C_6H_4\]_2Hg$, [4-(O=CH) $C_6H_4\]_2Hg$ and [(E)-4-(RN=CH) $C_6H_4\]_2Hg$ ($R=2'-py$, 4'-py, 2'-pyCH ₂ , 4'-pyCH ₂)	A. I. Barzic, R. M. Albu, I. Stoica	Applied Organometallic Chemistry, 35, e6339/1-15 (2021)
20.	Surface alteration implications on potential use of semi-alicyclic polyimide as biomedical materials	P. Nica, C. Ursu, C. Focsa	Applied Surface Science, 540, Article 148377/1-14 (2021)
21.	Electrical characterization of carbon plasma generated by excimer laser ablation of graphite	V. Melinte, L. E. Chibac-Scutaru, M. E. Culica, S. Coseri	Applied Surface Science, 540, Article 148412/1-8 (2021)
22.	Mineralization versus photoreduction of 4-nitrophenol under the influence of surface functionalized CeO ₂ nanoparticles, hosted by versatile cellulose supports		Applied Surface Science, 565, Article 150494/1-12 (2021)

23. Stabilizing enzymes within polymersomes by coencapsulation of trehalose
M. V. Dinu, I. A. Dinu, S. S. Sixer, W. Meier, U. Piels, N. Bruns
Biomacromolecules, 22, 134-145 (2021)
24. In silico study of PEI-PEG-squalene-dsDNA polyplex formation: the delicate role of the PEG length in the binding of PEI to DNA
T. Vasiliu, B. F. Craciun, A. Neamtu, L. Clima, D. L. Isac, S. S. Maier, M. Pinteala, F. Mocci, A. Laaksonen
Biomaterials Science, 9, 6623-6640 (2021)
25. A proteomic approach to identify zein proteins upon eco-friendly ultrasound-based extraction
L. Darie-Ion, M. Jayathirtha, G. E. Hitruc, M. M. Zaharia, R. V. Gradinaru, C. C. Darie, A. Pui, B. A. Petre
Biomolecules, 11, Article 1838/1-13 (2021)
26. Coumarin-based triapine derivatives and their copper(II) complexes: Synthesis, cytotoxicity and mR2 RNR inhibition activity
I. Stepanenko, M. V. Babak, G. Spengler, M. Hammerstad, A. Popovic-Bijelic, S. Shova, G. Buchel, D. Darvasiova, P. Raptă, V. Arion
Biomolecules, 11, Article 862/1-24 (2021)
27. Tellurides bearing benzenesulfonamide as carbonic anhydrase inhibitors with potent antitumor activity
A. Angel, M. Pinteala, S. S. Maier, A. Toti, L. di Cesare Mannelli, C. Ghelardini, S. Selleri, F. Carta, C. T. Supuran
Bioorganic and Medicinal Chemistry Letters, 45, Article 128147/1-4 (2021)
28. Processing of commercially available plastics
R. N. Darie-Nita, M. Rapa
Bioplastics for Sustainable Development, M. Kuddus, Roohi, Eds., Springer Nature Singapore, 103-136 (2021)
29. Synthetic bioplastics in active food packaging
E. Butnaru, E. Stoleru, A. Irimia
Bioplastics for Sustainable Development, M. Kuddus, Roohi, Eds., Springer Nature Singapore, 381-398 (2021)
30. Multicomponent polymer systems based on agro-industrial waste
F. Tanase, C. A. Teaca, M. Nechifor, M. Zanoaga
Bioplastics for Sustainable Development, M. Kuddus, Roohi, Eds., Springer Nature Singapore, 467-513 (2021)
31. Polysaccharide-based materials as promising alternatives to synthetic-based plastics for food packaging applications
I. E. Raschip, N. Fifere, M. V. Dinu
Bioplastics for Sustainable Development, M. Kuddus, Roohi, Eds., Springer Nature Singapore, 515-554 (2021)
32. Trees as bioindicators of environmental pollution and its impact on wood chemical composition
C. A. Teaca
BioResources, 16, 2184-2187 (2021)
33. Cellulose-based biogenic supports, remarkably friendly biomaterials for proteins and biomolecules
M. E. Culica, A. L. Chibac-Scutaru, T. Mohan, S. Coseri
Biosensors and Bioelectronics, 182, Article 113170/1-18 (2020)
34. Amino acids profile in the diagnosis of inborn errors of metabolism
V. Hlistun, E. Efremov, D. Blanita, C. Boiciuc, D. Munteanu, V. Lupu, A. Oglinda, A. Casian, I. Casian, A. F. Nicolescu, C. Deleanu, N. Usurelu, M. Scurtul, C. Boiciuc, D. Blanita, V. K. Sakara, I. Tarcomnicu, D.
Buletin de Perinatologie, 1(90), 53-56 (2021)
35. Classical galactosemia - a case report
Buletin de Perinatologie, 1(90), 76-80 (2021)

		Stambouli, A. F. Nicolescu, C. Deleanu, S. Gladun, N. Usurelu M. Nichifor, M. C. Stanciu, F. Doroftei	Carbohydrate Polymers, 252, Article 117147/1-10 (2021)
36.	Self-assembly of dextran- <i>b</i> -deoxycholic acid polyester copolymers: Copolymer composition and self-assembly procedure tune the aggregate size and morphology	P. Pascariu, C. Cojocaru, A. Airinei, N. Olaru, I. Rosca, E. Koudoumas, M. P. Suchea M. Lomora, A. Larranaga, C. Rodriguez- Emmenegger, B. Rodriguez, I. A. Dinu, J. R. Sarasua, A. Pandit C. A. Teaca, F. Tanasa, M. C. Stanciu	Catalysts, 11, Article 1234/1-19 (2021)
37.	Innovative Ag-TiO ₂ nanofibers with excellent photocatalytic and antibacterial actions	P. Pascariu, C. Cojocaru, A. Airinei, N. Olaru, I. Rosca, E. Koudoumas, M. P. Suchea M. Lomora, A. Larranaga, C. Rodriguez- Emmenegger, B. Rodriguez, I. A. Dinu, J. R. Sarasua, A. Pandit C. A. Teaca, F. Tanasa, M. C. Stanciu	Cell Reports Physical Science, 2, Article 100373/1-21 (2021)
38.	An engineered coccolith-based hybrid that transforms light into swarming motion	P. Pascariu, C. Cojocaru, A. Airinei, N. Olaru, I. Rosca, E. Koudoumas, M. P. Suchea M. Lomora, A. Larranaga, C. Rodriguez- Emmenegger, B. Rodriguez, I. A. Dinu, J. R. Sarasua, A. Pandit C. A. Teaca, F. Tanasa, M. C. Stanciu	Cellulose Nanoparticles: vol.2: Synthesis and Manufacturing, V. K. Thakur, E. Frollini, J. Scott, Eds., Royal Society of Chemistry, London. 443-466 (2021)
39.	Cellulose nanoparticles/polysaccharide-type polymer-based materials	P. Pascariu, C. Cojocaru, A. Airinei, N. Olaru, I. Rosca, E. Koudoumas, M. P. Suchea M. Lomora, A. Larranaga, C. Rodriguez- Emmenegger, B. Rodriguez, I. A. Dinu, J. R. Sarasua, A. Pandit C. A. Teaca, F. Tanasa, M. C. Stanciu	Chemical Communications, 57, 11060-11063 (2021)
40.	Expanding manganese(IV) aqueous chemistry: unusually stable water-soluble hexahydrazide clathrochelate complexes	S. I. Shylin, J. L. Pogrebetsky, A. O. Husak, D. Bykov, A. Mokhir, F. Hampel, S. Shova, A. Ozarowski, E. Gumienna-Kontecka, I. O. Fritsky E. S. Dragan, D. Humelnicu, M. V. Dinu	Chemical Engineering Journal, 426, Article 131411/1-17 (2021)
41.	Designing smart triple-network cationic cryogels with outstanding efficiency and selectivity for deep cleaning of phosphate	E. I. Chereches, D. Bejan, C. Ibanescu, M. Danu, A. A. Minea	Chemical Engineering Science, 229, Article 116140/1-10 (2021)
42.	Ionanofluids with [C ₂ mim][CH ₃ SO ₃] ionic liquid and alumina nanoparticles: An experimental study in viscosity, specific heat and electrical conductivity	B. V. Zakharchenko, D. M. Khomenko, R. O. Doroshchuk, I. V. Raspertova, S. Shova, A. G. Grebinyk, I. I. Grynyuk, S. V. Prylutska, O. P. Matyshevska, M. S. Slobodyanik, M. Frohme, R. D. Lampeka S. Racovita, M. A. Lungan, A. L. Vasiliu, S. Vasiliu, M. Mihai	Chemical Papers, 75, 4899- 4906 (2021)
43.	Cis-palladium(II) complex incorporating 3-(2-pyridyl)-5-methyl-1,2,4-triazole: structure and cytotoxic activity	B. V. Zakharchenko, D. M. Khomenko, R. O. Doroshchuk, I. V. Raspertova, S. Shova, A. G. Grebinyk, I. I. Grynyuk, S. V. Prylutska, O. P. Matyshevska, M. S. Slobodyanik, M. Frohme, R. D. Lampeka S. Racovita, M. A. Lungan, A. L. Vasiliu, S. Vasiliu, M. Mihai	Chemical Papers, 75, 4899- 4906 (2021)
44.	Sorption behaviour of grafted porous microparticles based on methacrylic monomer and chitosan/gellan gum towards copper(II) and nickel(II) ions in aqueous solutions	B. V. Zakharchenko, D. M. Khomenko, R. O. Doroshchuk, I. V. Raspertova, S. Shova, A. G. Grebinyk, I. I. Grynyuk, S. V. Prylutska, O. P. Matyshevska, M. S. Slobodyanik, M. Frohme, R. D. Lampeka S. Racovita, M. A. Lungan, A. L. Vasiliu, S. Vasiliu, M. Mihai	ChemistrySelect, 6, 12512- 12523 (2021)

45. Investigation of a biosystem based on *Arthospira platensis* for air revitalization in spacecrafts: Performance evaluation through response surface methodology
G. Soreanu, I. Cretescu, M. Diaconu, C. Cojocaru, M. Ignat, P. Samoilă, V. Harabagiu
L. Brinza, I. Ahmed, C. M. Cismasiu, I. Ardelean, I. G. Breaban, F. Doroftei, K. Ignatyev, C. Moisescu, M. Neamtu
C. A. Ghiorghita, M. Mihai
Chemosphere, 264(Part 2), Article 128465/1-10 (2021)
46. Geochemical investigations of noble metal-bearing ores: Synchrotron-based microanalyses and microcosm bioleaching studies
Chemosphere, 270, Article 129388/1-10 (2021)
47. Recent developments in layer-by-layer assembled systems application in water purification
Chemosphere, 270, Article 129477/1-22 (2021)
48. Effect of dimethyl carbonate on the behavior of water confined in carbon nanotube
Q. Cao, Y. Zhang, A. Laaksonen, Y. Zhu, X. Ji, S. Zhao, Y. Chen, X. Lu
Chinese Journal of Chemical Engineering, 31, 177-185 (2021)
49. Ionic liquids for CO₂ electrochemical reduction
F. Li, F. Mocci, X. Zhang, X. Ji, A. Laaksonen
Chinese Journal of Chemical Engineering, 31, 75-93 (2021)
50. Applications of vegetal oils in developing bioactive paper-based materials for food packaging
A. Irimia, E. Stoleru, C. Vasile, A. Bele, M. Brebu
Coatings, 11, Article 1211/1-15 (2021)
51. Eco-friendly O/W emulsions with potential applications in skincare products
A. Danaila, S. A. Ibanescu, C. Zaharia, E. I. Muresan, A. Popescu, M. Danu, V. Rotaru
Colloids and Surfaces A: Physicochemical and Engineering Aspects, 612, Article 125969/1-12 (2021)
52. Multifunctional CaCO₃/polyelectrolyte sorbents for heavy metal ions decontamination of synthetic waters
M. M. Zaharia, F. Bucataru, F. Doroftei, D. F. Loghin, A. L. Vasiliu, M. Mihai
Colloids and Surfaces A: Physicochemical and Engineering Aspects, 613, Article 126084/1-12 (2021)
53. Coordination polymers of the macrocyclic nickel(II) and copper(II) complexes with isomeric benzenedicarboxylates: The case of spatial complementarity between the bis-macrocyclic complexes and o-phthalate
L. V. Tsymbal, I. L. Andriichuk, S. Shova, D. Trzybinski, K. Wozniak, V. B. Arion, Y. D. Lampeka
Crystal Growth and Design, 21, 2355-2370 (2021)
54. Isomorphic channel-type pseudopolymorphs of azathioprine: From structural confirmations to a rotational polymorph screening approach
D. Samohvalov, M. A. Lungan, S. Shova, A. Barbatu, D. Gherca, C. M. Manta
Crystal Growth and Design, 21, 4837-4846 (2021)
55. Nanocomposites based on poly(amide-imide) matrix with Na-Mg triple chain hydrosilicate
G. N. Gubanova, D. Timpu, M. Cristea, S. V. Kononova, E. N. Korytkova, D. A. Sapegin, N. N. Saprykina, A. Y. Volkov, V. V. Kechkovskaya
Crystallography Reports, 66, 1185-1199 (2021)
56. An original 3D coordination polymer constructed from trinuclear nodes and tetracarboxylato spacers
A. S. Dinca, A. Dogaru, A. E. Ion, S. Nica, D. Dumitrescu, S. Shova, F. Lloret, M. Julve, M. Andruh
CrystEngComm, 23, 1332-1335 (2021)
57. Cyanido-bridged {Fe "Ln"} heterobimetallic chains assembled through the [Fe"{}{HB(pz)3} (CN)3]-
D. Visinescu, M. G. Alexandru, D. G. Dumitrescu, S. Shova, CrystEngComm, 23, 4615-4626 (2021)

	complex as metalloligand: synthesis, crystal structure and magnetic properties	N. Moliner, F. Lloret, M. Julve	
58.	Spin crossover in iron(II) Hofmann clathrates analogues with 1,2,3-triazole	I. S. Kuzevanova, O. I. Kucheriv, V. M. Hiiuk, D. Naumova, S. Shova, S. I. Shylin, V. O. Kotsyubynsky, A. Rotaru, I. O. Fritsky, I. A. Guralskiy	Dalton Transaction, 50, 9250-9258 (2021)
59.	Dual crystalline-amorphous salen-metal complexes behave like nematic droplets with AlEgens vistas	M. Damoc, A. C. Stoica, M. Dascalu, M. Asandulesa, S. Shova, M. Cazacu	Dalton Transactions, 50, 13841-13858 (2021)
60.	A rare isostructural series of 3d-4f cyanido-bridged heterometallic squares obtained by assembling (Fe ⁿ {HB(pz)3}(CN)3]- and Ln ⁿ ions: synthesis, X-ray structure and cryomagnetic study	M. G. Alexandru, D. Visinescu, B. Cula, S. Shova, R. Rabelo, N. Moliner, F. Lloret, J. Caro, M. Julve	Dalton Transactions, 50, 14640-14652 (2021)
61.	Field-induced single ion magnet behaviour of discrete and one-dimensional complexes containing [bis(1-methylimidazol-2-yl)ketone]-cobalt(II) building units	J. R. Jimenez, B. Xu, H. El Said, Y. Li, J. von Bardeleben, L. M. Chamoreau, R. Lescouezec, S. Shova, D. Visinescu, M. G. Alexandru, J. Caro, M. Julve	Dalton Transactions, 50, 16353-16363 (2021)
62.	Theoretical model for the diclofenac release from PEGylated chitosan hydrogels	D. Ailincai, M. Agop, I. C. Marinas, A. Zala, S. A. Irimiciuc, L. Dobreci, T. C. Petrescu, C. Volovat	Drug Delivery, 28, 261-271 (2021)
63.	Theoretical modeling and experimental study of sodium oleate properties for wastewater cleaning with magnetic nanoparticles stabilized with oleate	C. Morosanu, L. Popescu-Lipan, L. Sacarescu, A. R. Fanaru, D. Creanga	E3S Web of Conferences, 247, Article 01025/1-4 (2021)
64.	An overview of year with Covid-19: What we know?	M. Teodorescu	Electronic Journal of General Medicine, 18, Article em286/1-17 (2021)
65.	The separation of kreutzonit particles by cationic pullulan derivatives from model suspension	L. Ghimici, M. Constantin	Environmental Challenges, 5, Article 100352/1-8 (2021)
66.	Natural and synthetic polymeric antimicrobials with quaternary ammonium moieties: a review	A. G. Grigoras	Environmental Chemistry Letters, 19, 3009-3022 (2021)
67.	Sustainable wood coatings made of epoxidized vegetable oils for ultraviolet protection	C. D. Varganici, L. Rosu, D. Rosu, F. Mustata, T. Rusu	Environmental Chemistry Letters, 19, 307-328
68.	Evaluation of phosphate adsorption by porous strong base anion exchangers having hydroxyethyl substituents: kinetics, equilibrium, and thermodynamics	D. Humelnicu, E. S. Dragan	Environmental Science and Pollution Research, 28, 7105-7115 (2021)
69.	Chalcogenides - incorporating carbonic anhydrase inhibitors concomitantly	D. Tanini, S. Carradori, A. Capperuci, L. Lupori, S. Zara, M. Ferraroni, C.	European Journal of Medicinal Chemistry, 225, Article 113793/1-12 (2021)

	reverted oxaliplatin - induced neuropathy and enhanced antiproliferative action	Ghelardini, L. Di Cesare Mannelli, L. Micheli, E. Lucarini, F. Carta, A. Angeli, C. T. Supuran O. Akgul, A. Angeli, S. Selleri, C. Capasso, C. T. Supuran, F. Carta	
70.	Taurultams incorporating arylsulfonamide: First in vitro inhibition studies of α -, β - and γ -class carbonic anhydrases from <i>Vibrio cholerae</i> and <i>Burkholderia pseudomallei</i>	S. Oprea, V. O. Potolinca, V. Oprea	European Journal of Medicinal Chemistry, 219, Article 113444/1-11 (2021)
71.	New polyurethanes with specific dielectric behavior through included of 1,3,4-thiadiazole derivate in their structure	S. Oprea, V. O. Potolinca, V. Oprea	European Polymer Journal, 143, Article 110177/1-9 (2021)
72.	Fully-water-soluble BODIPY containing fluorescent polymers prepared by RAFT method for the detection of Fe ³⁺ ions	S. He, L. Xiao, L. Marin, Y. Bai, X. Cheng	European Polymer Journal, 150, Article 110428/1-12 (2021)
73.	Electrochemical behaviour of piperidine. Comparison with control antioxidants	O. E. Carp. A. Moraru, M. Pinteala, A. Arvinte	Food Chemistry, 339, Article 128110/1-8 (2021)
74.	Impact of ethanol addition on the behaviour of xanthan gum in aqueous media	C. E. Brunchi, S. Morariu, M. Bercea	Food Hydrocolloids, 120, Article 106928/1-9 (2021)
75.	Processing and properties of chitosan and/or chitin biocomposites for food packaging	M. Rapa, C. Vasile	Food Packaging. Advanced Materials, Technologies, and Innovations, S. M. Rangappa, J. Parameswaranpillai, S. M. K. Thiagamani, S. Krishnasamy, S. Sienghcin, Eds., CRC Press, Boca Raton, USA, 291-326 (2021)
76.	Correlation of studies between colour, structure and mechanical properties of commercially produced ThermoWood treated Norway spruce and Scot pine	P. Torniainen, C. M. Popescu, D. Jones, A. Scharf, D. Sandberg	Forests, 12, Article 1165/1-24 (2021)
77.	Assessment of structural differences between water-extracted and non-extracted hydro-thermally treated spruce wood by NIR spectroscopy	C. M. Popescu, N. Zeniya, K. Endo, T. Genkawa, M. Matsuo-Ueda, E. Obataya	Forests, 12, Article 1689/1-13 (2021)
78.	Interactions between different organosilicons and archaeological waterlogged wood evaluated by infrared spectroscopy	C. M. Popescu, M. Broda	Forests, 12, Article 268/1-16 (2021)
79.	Up state of the SARS-COV-2 spike homotrimer favors an increased virulence for new variants	C. Correa Giron, A. Laaksonen, F. L. Barroso da Silva	Frontiers in Medicinal Technology 3, Article 694347/1-20 (2021)
80.	Study on acute toxicity of amiodarone new complexes with cyclodextrin	C. M. Ghiciuc, M. R. Shleghm, C. Vasile, G. Tantaru, A. Creteanu, L. Ochiuz	Frontiers in Pharmacology, 12, Article 640705/1-7 (2021)
81.	Practices to enhance conversion efficiencies in solar cells	A. I. Barzic	Fundamentals of Solar Cell Design, Inamuddin, M. I. Ahamed, R. Boddula, M. Rezakazemi, Eds., Wiley-Scrievener Publishing, Beverly, USA, 247-270
82.	Analysis of copper(II), cobalt(II) and iron(III) sorption in binary and ternary	M. V. Dinu, D. Humelnicu, M. M. Lazar	Gels, 7, Article 103/1-18 (2021)

- systems by chitosan-based composite sponges obtained by ice-segregation approach
83. New physical hydrogels based on co-assembling of FMOC - amino acids A. Croitoriu, L. E. Nita, A. P. Chiriac, A. G. Rusu, M. Bercea Gels, 7, Article 208/1-14 (2021)
84. New hydrogel network based on alginate and a spiroacetal copolymer A. E. Sandu, L. E. Nita, A. P. Chiriac, N. Tudorachi, A. G. Rusu, D. Pamfil Gels, 7, Article 241/1-13 (2021)
85. A comparative analysis of the effect of variety of grape pomace extracts on the ice-templated 3D cryogel features I. E. Raschip, N. Fifere, M. V. Dinu Gels, 7, Article 76/1-18 (2021)
86. Detecting confined fluid behavior by SFA: Past, present and future Y. Dong, F. Huo, A. Laaksonen Green Energy and Environment, 6, 167-168 (2021)
87. Perspectives on polymer materials in products manufacturing for green electronics A. I. Barzic, L. I. Buruiana, R. M. Albu Green Materials and Environmental Chemistry: New Production Technologies, Unique Properties, and Applications, A. Z. Yaser, P. Khullar, A. K. Haghi, Eds., Apple Acad. Press, 249-276 (2021)
88. Multiphase materials based on green polymers for electronics with minimized environmental impact A. I. Barzic Green Polymer Chemistry and Composites. Pollution Prevention and Waste Reduction, N. K. Rawat, I. Stoica, A. K. Haghi, Eds., Apple Academic Press, Boca Raton, USA, 203-223 (2021)
89. Sustainable eco-friendly polymer-based membranes used in water depollution for life-quality improvements A. M. Dobos, M. D. Onofrei, A. Filimon Green Polymer Chemistry and Composites. Pollution Prevention and Waste Reduction, N. K. Rawat, I. Stoica, A. K. Haghi, Eds., Apple Academic Press, Boca Raton, USA, 225-268 (2021)
90. Protective coatings for wood F. Tanasa, C. A. Teaca, M. Zanoaga Handbook of Modern Coating Technologies, M. Aliofkhazraei, N. Ali, M. Chipara, N. B. Laidani, J. T. M. De Hosson, Eds., Elsevier, Amsterdam, 175-267 (2021)
91. Liquid crystalline hyperbranched polyesters with phosphorus terminal groups D. Serbezeanu, A. M. Macsim, I. D. Carja, C. Hamciuc, M. Pislaru, T. Vlad-Bubulac High Performance Polymers, 33, 383-393 (2021)
92. Aromatic alicyclic polyimides: From basic aspects toward high technologies C. Hulubei, E. Hamciuc, C. Hamciuc Imidic Polymers and Green Polymer Chemistry. New Technology and Developments in Process and Product, A. I. Barzic, N. K. Rawat, A. K. Haghi, Eds., Apple Academic Press, New York, USA, 1-22 (2021)
93. Patterning polyimide films at nanoscale using dynamic plowing lithography I. Stoica Imidic Polymers and Green Polymer Chemistry. New

		Technology and Developments in Process and Product, A. I. Barzic, N. K. Rawat, A. K. Hagh, Eds., Apple Academic Press, New York, USA, 209-230 (2021)
94.	Polyimide materials for transistors and biosensors manufacturing	R. M. Albu, R. F. Barzic Imidic Polymers and Green Polymer Chemistry. New Technology and Developments in Process and Product, A. I. Barzic, N. K. Rawat, A. K. Hagh, Eds., Apple Academic Press, New York, USA, 231-249 (2021)
95.	Dynamic molecular phenomena in polyimides investigated by dynamic mechanical analysis	M. Cristea, D. Ionita, M. Garbea, M. D. Damaceanu Imidic Polymers and Green Polymer Chemistry. New Technology and Developments in Process and Product, A. I. Barzic, N. K. Rawat, A. K. Hagh, Eds., Apple Academic Press, New York, USA, 305-348 (2021)
96.	Molecular modeling of imidic polymers with advanced physico-chemical properties	R. M. Albu Imidic Polymers and Green Polymer Chemistry. New Technology and Developments in Process and Product, A. I. Barzic, N. K. Rawat, A. K. Hagh, Eds., Apple Academic Press, New York, USA, 189-208 (2021)
97.	Synthesis of thiourea-graft-polyethyleneimine and its performance in flocculation of some inorganic particles	C. A. Ghiorghita, L. Ghimici, G. L. Ailiesei Industrial and Engineering Chemistry Research, 60, 5167-5175 (2021)
98.	Synthesis and thermal characterization of some hardness for epoxy resins based on castor oil and cyclic anhydrides	F. Mustata, N. Tudorachi Industrial Crops and Products, 159, Article 113087/1-12 (2021)
99.	Alginate/poloxamer hydrogel obtained by thiol-acrylate photopolymerization for the alleviation of the inflammatory response of human keratinocytes	I. Popescu, M. Turtoi, D. M. Suflet, M. V. Dinu, R. N. Darie-Nita, M. Anghelache, M. Calin, M. Constantin International Journal of Biological Macromolecules, 180, 418-431 (2021)
100.	All-polysaccharide hydrogels for drug delivery applications: Tunable chitosan beads surfaces via physical or chemical interactions, using oxidized pullulan	I. A. Duceac, L. Verestiu, A. Coroaba, D. Arotaritei, S. Coseri International Journal of Biological Macromolecules, 181, 1047-1062 (2021)
101.	New cellulose-collagen alginate materials incorporated with quercetin, anthocyanins and lipoic acid	N. Anghel, M. V. Dinu, M. Zaltarioiu, D. Pamfil, I. Spiridon International Journal of Biological Macromolecules, 181, 30-40 (2021)
102.	Alginate enriched with phytic acid for hydrogels preparation	L. E. Nita, A. P. Chiriac, A. Ghilan, A. G. Rusu, N. Tudorachi, D. Timpu International Journal of Biological Macromolecules, 181, 561-571 (2021)
103.	Physically cross-linked chitosan/dextrin cryogels entrapping Thymus vulgaris	M. V. Dinu, A. C. Gradinaru, M. M. Lazar, I. A. Dinu, I. E. Raschip International Journal of Biological Macromolecules, 184, 898-908 (2021)

- essential oil with enhanced mechanical, antioxidant and antifungal properties
104. A novel platform for drug testing: Biomimetic three-dimensional hyaluronic acid-based scaffold seeded with human hepatocarcinoma cells
- N. Ciocarlan, A. C. Aprotosoaie
M. Turtoi, M. Anghelache, S. M. Bucatariu, M. Deleanu, G. Voicu, F. Safciuc, I. Manduteanu, G. Fundueanu, M. Simionescu, M. Calin
C. Li, L. Marin, X. Cheng
- International Journal of Biological Macromolecules, 185, 604-619 (2021)
105. Chitosan based macromolecular probes for the selective detection and removal of Fe³⁺ ion
- V. Balan, G. Dodi, C. T. Mihai, A. M. Serban, V. C. Ursachi
L. E. Nita, A. P. Chiriac, A. Ghilan, A. G. Rusu, D. Pamfil, I. Rosca, L. Mititelu-Tartau
M. C. Stanciu, M. Nichifor, G. L. Ailisei
- International Journal of Biological Macromolecules, 186, 303-313 (2021)
106. Biotinylated chitosan macromolecule based nanosystems: A review from chemical design to biological targets
- International Journal of Biological Macromolecules, 188, 82-93 (2021)
107. Alginate enriched with phytic acid for hydrogels preparation. Therapeutic applications
- International Journal of Biological Macromolecules, 189, 335-345 (2021)
108. Bile salts adsorption on dextran-based hydrogels
- International Journal of Biological Macromolecules, 190, 270-283 (2021)
109. Effect of calcium stearate as a lubricant and catalyst on the thermal degradation of poly(3-hydroxybutyrate)
- International Journal of Biological Macromolecules, 190, 780-791 (2021)
110. Preparation, characterization, and application of polysaccharide-based emulsions incorporated with lavender essential oil for skin-friendly cellulosic support
- International Journal of Biological Macromolecules, 191, 405-413 (2021)
111. Amphiphilic chitosan-g-poly(trimethylene carbonate) - A new approach for biomaterials design
- International Journal of Biological Macromolecules, 193 (Part A), 414-424 (2021)
112. Design, preparation and in vitro characterization of biomimetic and bioactive chitosan/polyethylene wound dressings
- International Journal of Biological Macromolecules, 193 (Part A), 996-1008 (2021)
113. Toxicity assessment of long-term exposure to non-thermal plasma activated water in mice
- International Journal of Molecular Sciences, 22, Article 11534/1-20 (2021)
114. The benefits of smart nanoparticles in dental applications
- International Journal of Molecular Sciences, 22, Article 2585/1-23 (2021)
115. Chromene-containing aromatic sulfonamides with carbonic anhydrase inhibitor properties
- International Journal of Molecular Sciences, 22, Article 5082/1-15 (2021)

116. Spectroscopic and *in silico* studies on the interaction of substituted pyrazolo[1,2-a]benzo[1,2,3,4]tetrazine-3-one derivatives with c-Myc G4-DNA
S. Mulliri, A. Laaksonen, P. Spanu, R. Farris, M. Farci, F. Mingoia, G. N. Roviello, F. Mocci
International Journal of Molecular Sciences, 22, Article 6028/1-20 (2021)
117. Injectable thixotropic β -cyclodextrin-functionalized hydrogels based on guanosine quartet assembly
M. C. Sardaru, I. Rosca, S. Morariu, E. L. Ursu, R. Ghiarasim, A. Rotaru S. Racovita, M. A. Trofin, D. F. Loghin, M. M. Zaharia, F. Bucatariu, M. Mihai, S. Vasiliu
International Journal of Molecular Sciences, 22, Article 9179/1-16 (2021)
118. Polybetaines in biomedical applications
International Journal of Molecular Sciences, 22, Article 9321/1-27 (2021)
119. Thermal analysis and polarized light microscopy as methods to study the increasing of the durability of PLA designed for 3D printing
S. Mathe, D. Dimonie, M. Cristea
International Journal of Polymer Analysis and Characterization, 26, 253-264 (2021)
120. Synthesis and characterization of curdlan-phosphorylated curdlan based hydrogels for drug release
D. M. Suflet, I. Popescu, A. I. Prisacaru, I. M. Pelin
International Journal of Polymeric Materials, 70, 870-879 (2021)
121. An experimental study on electrical conductivity of several oxide nanoparticle enhanced PEG400 fluid
M. Chereches, D. Bejan, E. I. Chereches, A. Alexandru, A. A. Minea
International Journal of Thermophysics, 42, Article 104/1-11 (2021)
122. Long-range oscillations of a laser-produced carbon plasma recorded by an electrostatic energy analyzer
P. E. Nica, C. Ursu, C. Focsa
Journal of Applied Physics, 129, Article 053305/1-7 (2021)
123. Octakis(phenyl)-T8-silsesquioxane-filled silicone elastomers with enhanced electrochemical capability
M. Dascalu, M. Iacob, C. Tugui, A. Bele, G. T. Stiubianu, C. Racles, M. Cazacu
Journal of Applied Polymer Science, 138, Article 50161/1-10 (2021)
124. Physical properties and dielectric behavior of the poly(urethane-urea) based on dianisidine and renewable crosslinkers
S. Oprea, V. O. Potolinca, V. Oprea
Journal of Applied Polymer Science, 138, Article 50481/1-15 (2021)
125. Surface energy evaluation of casting and nanofiber polyurethane films by using different models
L. M. Gradinaru, M. Barbalata-Mandru, S. Vlad, M. Petrescu
Journal of Applied Polymer Science, 138, Article 50834/1-16 (2021)
126. Influence of microfibrillated cellulose and soft bicomponent on the morphology and thermal properties of thermoplastic polyurethanes
D. M. Panaitescu, C. A. Nicolae, V. Melinte, A. L. Scutaru, A. R. Gabor, M. S. Popa, M. Oprea, T. Buruiana
Journal of Applied Polymer Science, 138, Article 50951/1-17 (2021)
127. Electrochemically driven efficient enzymatic conversion of CO₂ to formic acid with artificial cofactors
Z. Zhang, T. Vasiliu, F. Li, A. Laaksonen, F. Mocci, X. Ji
Journal of CO₂ Utilization, 52, Article 101679/1-8 (2021)
128. Opto-electronic properties modulation through iodine doping of imine- and triphenylamine-based oligomers
A. E. Bejan, C. V. Diaconu, M. D. Damaceanu
Journal of Electronic Materials, 30, 1358-1369 (2021)
129. Boosting catalytic wet-peroxide-oxidation performances of cobalt ferrite by doping with lanthanides for organic pollutants degradation
P. Samoilă, C. Cojocaru, E. Mahu, M. Ignat, V. Harabagiu
Journal of Environmental Chemical Engineering, 9, Article 104961/1-11 (2021)
130. An alternative approach to the synthesis of [1,2,4]triazolo[1,5- α]pyridine-8-carbonitriles, their crystal structure, and DFT calculations
D. M. Khomenko, T. V. Shokol, R. O. Doroshchuk, V. S. Starova, I. V. Raspertova, S. Shova,
Journal of Heterocyclic Chemistry, 58, 1278-1285 (2021)

	R. D. Lampeka, Y. M. Volovenko	Journal of Industrial and Engineering Chemistry, 93, 436-447 (2021)
131.	Tailoring poly(ether-imide) films features towards high performance flexible substrates	I. Butnaru, A. P. Chiriac, M. Asandulesa, I. Sava, G. Lisa, M. D. Damaceanu
132.	Physicochemical characterization and energy recovery of spent coffee grounds	V. Bejenari, A. Marcu, A. M. Ipate, D. Rusu, N. Tudorachi, I. Anghel, I. E. Sofran, G. Lisa
133.	Structural insights into <i>Schistosoma mansoni</i> carbonic anhydrase (SmCA) inhibition by selenoureido-substituted benzenesulfonamides	A. Angelis, M. Ferraroni, A. A. Dadara, S. Selleri, M. Pinteala, F. Carta, P. J. Skelly, C. T. Supuran
134.	Pillar[5]arene-based polycationic glyco[2]rotaxanes designed as <i>Pseudomonas aeruginosa</i> antibiofilm agents	T. M. El Dine, R. Jimmudi, A. Diaconu, M. Fransolet, C. Michiels, J. De Winter, E. Gillon, A. Imbert, T. Coenye, S. P. Vincent
135.	Eco-friendly PDLC composites based on chitosan and cholesteryl acetate	D. Ailincăi, L. Marin
136.	A novel approach towards crown-ether modified polyimides with affinity for alkali metal ions recognition	A. P. Chiriac, M. D. Damaceanu
137.	Synthesis of benzaldehyde-grafted polysilane: A highly stable and selective "turn-on" fluorescent sensor for cysteine	A. L. Chibac-Scutaru, C. Cojocaru, G. Roman, P. Samoilă, G. Sacarescu, M. Simionescu, L. Sacarescu
138.	Processing of quaternized polysulfones solutions as tool in design of electrospun nanofibers: Microstructural characteristics and antimicrobial activity	A. Filimon, N. Olaru, F. Doroftei, A. Coroaba, S. Dunca
139.	Azomethines containing 1,3,4-oxadiazole ring: Synthesis, photophysical properties, halochromism and metal ions sensing responses	C. Hamciuc, M. Homocianu, E. Hamciuc
140.	The viscosity of globular proteins in the presence of an "inert" macromolecular cosolute	I. A. Plugariu, M. Bercea
141.	Artificial neural networks and molecular modeling for assessing the adsorption performance of a hybrid alginate-based magsorbent	C. Cojocaru, A. C. Humelnicu, P. Pascariu, P. Samoilă
142.	Unraveling the ambiguity of the emission pattern of donor-acceptor salicylaldimines	C. A. Barboza, O. Morawski, J. Olas, P. Gawrys, M. Banasiewicz, K. Suwinska, S. Shova, B. Kozankiewicz, A. L. Sobolewski
143.	Silanol-functionalized tetranuclear copper complex and its nanoscale-heterogenization by immobilization on glass surface from solution	A. C. Stoica, M. Damoc, V. Tiron, M. Dascalu, A. Coroaba, S. Shova, M. Cazacu

144. Shear flow of associative polymers in aqueous solutions
M. Bercea, L. M. Gradinaru, M. Barbalata-Mandru, S. Vlad, L. E. Nita, I. A. Plugariu, R. Albulescu B. I. Bratanovici, C. Cojocaru, A. Nicolescu, M. Dascalu, G. Roman
- Journal of Molecular Structure, 1238, Article 130441/1-9 (2021)
145. Di-topic hybrid ligands with an isoxazole ring in the central unit: Synthesis, structural characterization and molecular modeling
V. E. Podasca, M. D. Damaceanu
- Journal of Molecular Structure, 1245, Article 131129/1-13 (2021)
146. ZnO-Ag based polymer composites as photocatalysts for highly efficient visible-light degradation of Methyl Orange
D. Lengvinaite, S. Kvedaraviciute, S. Bielskute, V. Klimavicius, V. Balevicius, F. Mocci, A. Laaksonen, K. Aidas L. de Villiers Engelbrecht, R. Farris, T. Vasiliu, M. Demurtas, A. Piras, F. C. Marincola, A. Laaksonen, S. Porcedda, F. Mocci S. Hrom, V. V. Sizov, O. V. Levin, A. Laaksonen
- Journal of Photochemistry and Photobiology A: Chemistry, 406, Article 113003/1-10 (2021)
Journal of Physical Chemistry B, 125, 13255-13266 (2021)
147. Structural features of the [C4min][Cl] ionic liquid and its mixtures with water: Insight from a 1H NMR experimental and QM/MD study
148. Theoretical and experimental study of the excess thermodynamic properties of highly nonideal liquid mixtures of butanol isomers + DBE
P. Nitschke, B. Jarzabek, A. E. Bejan, M. D. Damaceanu
- Journal of Physical Chemistry B, 125, 587-600 (2021)
149. Assembly of [Ni(Schiff)] films on an inert surface: A multiscale computational study
E. Tarabukina, V. Harabagiu, G. Fundueanu, M. Constantin, A. Filipov M. F. Zaltariov, D. Filip, D. Macocinschi, C. Ibanescu, M. Danu, L. Sacarescu S. Oprea, V. O. Potolinca, V. Oprea
- Journal of Physical Chemistry C, 125, 2926-2937 (2021)
150. Effect of protonation on optical and electrochemical properties of thiophene-phenylene-based Schiff bases with alkoxy side groups
Journal of Physical Chemistry B, 125, 8588-8600 (2021)
151. Thermo- and pH-responsive copolymer of N-isopropylacrylamide with acryloylvaline: synthesis and properties in aqueous solutions
Journal of Polymer Research, 28, Article 155/1-14 (2021)
152. Self-assembly and rheological behavior of chloramphenicol-based poly(ester ether) urethanes
Journal of Polymer Research, 28, Article 190/1-15 (2021)
153. Behavior to UV irradiation of the polyurethane containing azobenzene side groups in the main chains structure
Journal of Polymer Research, 28, Article 369/1-13 (2021)
154. Double crosslinked pectin beads stable in physiological environment as potential support for biomedical applications
I. Popescu, M. Lupei, M. Constantin, G. Voicu, M. Calin, A. I. Prisacaru, G. Fundueanu C. Mita, I. Bunia, T. Roman, D. Humelnicu
- Journal of Polymer Research, 28, Article 424/1-16 (2021)
155. Crosslinked and functionalized acrylic polymers: Efficient and reusable solvents for Zn(II) ions in solution
G. Cazacu, O. Chirila, M. I. Totolin, D. Ciolacu, L. Nita, M. Drobota, C. Vasile
- Journal of Polymers and the Environment, 29, 2261-2281 (2021)
156. Chemical treatment of lignosulfonates under DBD plasma conditions. I. Spectral characterization
Journal of Polymers and the Environment, 29, 900-921 (2021)

157. Synthesis and properties of new fused pyrrolo-1,10-phenanthroline type derivatives C. M. Al-Matarneh, I. Rosca, S. Shova, R. Danac Journal of the Serbian Chemical Society, 86, 901-915 (2021)
158. Synthesis, photophysics, and Langmuir films of polyfluorene/permodified cyclodextrin polyrotaxanes A. El-Haitami, A. M. Resmerita, O. Fichet, S. Cantin, P. H. Aubert, A. Farcas Langmuir, 37, 11406-11413 (2021)
159. Molecular mechanistic insight into the ionic-strength-controlled interfacial behavior of proteins onto a TiO₂ surface Y. Dong, A. Laaksonen, Q. Gao, X. Ji Langmuir, 37, 11499-11507 (2021)
160. Hydrated ionic liquids boost the trace detection capacity of proteins on TiO₂ support Y. Dong, A. Laaksonen, F. Huo, Q. Gao, X. Ji Langmuir, 37, 5012-5021 (2021)
161. Synthesis, characterization of erythromycin propionate core-based poly(ether urethane)s and their antibacterial properties D. Filip, D. Macocinschi, C. G. Tuchilus, M. F. Zaltariov, C. D. Varganici Macromolecular Research, 29, 613-624 (2021)
162. Structural chemistry-assisted strategy toward fast cis-trans photo/thermal isomerization switch of novel azo-naphthalene-based polyimides C. P. Constantin, I. Sava, M. D. Damaceanu Macromolecules, 54, 1517-1538 (2021)
163. Assessing the electrical characteristics of p-n heterojunction prototype diodes realized with n-type polyimide materials C. P. Constantin, G. Lisa, M. D. Damaceanu Macromolecules, 54, 941-957 (2021)
164. An alternative approach towards C-12 functionalized scalaranic sesterterpenoids synthesis of 17-oxo-20-norscalar-12 α , 19-O-lactone O. Morarescu, M. Grinco, V. Kulcitki, S. Shova, N. Ungur Marine Drugs, 19, Article 636/1-9 (2021)
165. Semi-interpenetrating networks based on epoxy resin and oligophosphonate: Comparative effect of three hardners on the thermal and fire properties C. D. Varganici, L. Rosu, S. Lehner, C. Hamciuc, D. Rosu, F. Mustata, M. Jovic, D. Sabgasachi, S. Gaan Materials and Design, 112, Article 110237/1-12 (2021)
166. In situ CaCO₃ mineralization controlled by carbonate source within chitosan-based cryogels A. L. Vasiliu, M. V. Dinu, M. M. Zaharia, D. Peptanariu, M. Mihai I. Butnaru, A. P. Chiriac, C. Tugui, M. Asandulesa, M. D. Damaceanu Materials Chemistry and Physics, 272, Article 125025/1-12 (2021)
167. The synergistic effect of nitrile and Jeffamine structural elements towards stretchable and high-k neat polyimide materials Materials Chemistry Frontiers, 5, 7558-7579 (2021)
168. Novel electrospun membranes based on PVDF fibers embedding lanthanide doped ZnO for adsorption and photocatalytic degradation of dye organic pollutants P. Pascariu, C. Cojocaru, P. Samoilă, N. Olaru, A. Bele, A. Airinei Materials Research Bulletin, 141, Article 111376/1-10 (2021)
169. Exploring the potential of thin films made from poly(imide-amide-sulfone)s for engineering applications C. P. Constantin, M. Asandulesa, C. Varganici, V. Melinte, M. Bruma, A. Jankowski, A. Wolinska-Grabczyk, M. D. Damaceanu Materials Science and Engineering B: Advanced Functional Solid-State Materials, 270, Article 115217/1-14 (2021)
170. Hard dental tissues regeneration - Approaches and challenges M. Olaru, L. Sachelarie, G. Calin Materials, 14, Article 2558/1-35 (2021)
171. Comparative investigation of collagen-based hybrid 3D structures for potential biomedical applications G. David, A. I. Bargan, M. Drobota, A. Bele, I. Rosca Materials, 14, Article 3313/1-16 (2021)

172.	Calcium carbonate-carboxymethyl chitosan hybrid materials	M. E. Fortuna, E. Ungureanu, C. D. Jitareanu	Materials, 14, Article 3336/1-12 (2021)
173.	Siloxane matrix molecular weight influences the properties of nanocomposites based on metal complexes and dielectric elastomer	A. Soroceanu, G. T. Stiubianu	Materials, 14, Article 3352/1-17 (2021)
174.	Testing of chemically activated cellulose fibers as adsorbents for treatment of arsenic contaminated water	M. Ciopec, G. Biliuta, A. Negrea, N. Duteanu, S. Coseri, P. Negrea, M. Ghangrekar	Materials, 14, Article 3731/1-20 (2021)
175.	Polyelectrolyte multilayers: An overview on fabrication, properties, and biomedical and environmental applications	L. M. Petrila, F. Bucatariu, M. Mihai, C. Teodosiu	Materials, 14, Article 4152/1-29 (2021)
176.	New insights on solvent implications in the design of materials based on cellulose derivatives using experimental and theoretical approaches	A. Filimon, M. D. Onofrei	Materials, 14, Article 6627/1-21 (2021)
177.	Modulation of the PLLA morphology through racemic nucleation to reach functional properties required by 3D printed durable applications	D. Dimonie, S. Mathe, M. M. Iftime, D. Onita, R. Trusca, S. Iftimie	Materials, 14, Article 6650/1-16 (2021)
178.	Synthesis, characterization, and antifungal activity of silver nanoparticles embedded in pullulan matrices	O. Burduniuc, A. C. Bostanaru, M. Mares, G. Biliuta, S. Coseri	Materials, 14, Article 7041/1-11 (2021)
179.	Matching the cellulose/silica films surface properties for design of biomaterials that modulate extracellular matrix	A. M. Dobos, E. L. Ursu, L. M. Gradinaru, M. Dobromir, A. Filimon	Membranes, 11, Article 840/1-19 (2021)
180.	Monomethine cyanine probes for visualization of cellular RNA by fluorescence microscopy	D. Aristova, V. Kosach, S. Chernii, Y. Slominski, A. Balandia, V. Filonenko, S. Yarmoluk, A. Rotaru, H. Gizem Ozkan, A. Mokhir, V. Kovalska	Methods and Applications in Fluorescence, 9, Article 045002/1-12 (2021)
181.	Optical properties of solute molecules: Environmental effects, challenges and their practical implications	M. Homocianu	Microchemical Journal, 161, Article 105797/1-17 (2021)
182.	5-((8-Hydroxyquinolin-5-yl)diazaryl)-3-methyl-1H-pyrazole-4-carboxylic acid	I. Burca, V. Badea, C. Deleanu, V. N. Bercean	Molbank 2021, (2), Article M1238/1-6 (2021)
183.	Progress in food packaging, food quality and safety - Controlled-release antioxidant and/or antimicrobial packaging	C. Vasile, M. Baican	Molecules, 26, Article 1263/1-49 (2021)
184.	Synthesis and biological screening of new cyano-substituted pyrrole fused (iso)quinoline derivatives	M. C. Al. Matarneh, R. M. Amarandi, I. I. Mangalagiu, R. Danac	Molecules, 26, Article 2066/1-19 (2021)
185.	A theoretical model for release dynamics of an antifungal agent covalently bonded to the chitosan	L. Marin, M. Popa, A. Anisiei, S. A. Irimiciuc, M. Agop, T. C. Petrescu, D. Vasincu, L. Himiniuc	Molecules, 26, Article 2089/1-16 (2021)
186.	Mesomorphic behavior of symmetric azomethine dimers containing different chromophore groups	E. Perju, L. Marin	Molecules, 26, Article 2183/1-15 (2021)

187.	Raman spectroscopy, X-ray diffraction and scanning electron microscopy as noninvasive methods for microstructural alterations in psoriatic nails	A. E. Chiriac, D. Azoicai, A. Coroaba, F. Doroftei, D. Timpu, A. Chiriac, M. Perteia, E. L. Ursu, M. Pinteala	Molecules, 26, Article 280/1-10 (2021)
188.	Immobilization and release studies of triazole derivatives from grafted copolymer based on gellan-carrying betaine units	N. Baranov, S. Racovita, S. Vasiliu, A. M. Maxim, C. Lionte, V. Sunel, M. Popa, J. Desbrieres, C. Cheptea	Molecules, 26, Article 3330/1-23 (2021)
189.	Paclitaxel-loaded magnetic nanoparticles based on biotinylated N-palmitoyl chitosan: Synthesis, characterization and preliminary in vitro studies	V. C. Ursachi, G. Dodi, A. G. Rusu, C. T. Mihai, L. Verestiuc, V. Balan	Molecules, 26, Article 3467/1-13 (2021)
190.	Synthesis of 1-(2-fluorophenyl)pyrazoles by 1,3-dipolar cycloaddition of the corresponding sydnone	D. Dumitrescu, S. Shova, C. Draghici, M. M. Popa, F. Dumitrescu	Molecules, 26, Article 3693/1-14 (2021)
191.	Towards a bioactive food packaging: Poly(lactic acid) surface functionalized by chitosan coating embedding clove and argan oils	E. Stoleru, C. Vasile, A. Irimia, M. Brebu	Molecules, 26, Article 4500/1-17 (2021)
192.	Fluorescent phthalocyanine-encapsulated bovine serum albumin nanoparticles: Their development as therapeutic agents in the NIR region	R. Borlan, D. Stoia, L. Gaina, A. Campu, G. Marc, M. Perde-Schrepler, M. Silion, D. Manciu, M. Focsan, S. Astilean	Molecules, 26, Article 4679/1-21 (2021)
193.	Antibacterial polysiloxane polymers and coatings for cochlear implants	V. Cozma, I. Rosca, L. Radulescu, C. Martu, V. Nastasa, C. D. Varganici, E. L. Ursu, F. Doroftei, M. Pinteala, C. Racles	Molecules, 26, Article 4892/1-18 (2021)
194.	Bioactive electrospun fibers of poly(ϵ -caprolactone) incorporating α -tocopherol for food packaging applications	R. P. Dumitriu, E. Stoleru, G. R. Mitchell, C. Vasile, M. Brebu	Molecules, 26, Article 5498/1-17 (2021)
195.	Slow magnetic relaxation in $\{[CoCxAPy]_2 \cdot 15 H_2O\}_n$ MOF built from ladder-structured 2D layers with dimeric SMM rungs	A. Aranzo, E. Bartolome, J. Luzon, P. J. Alonso, A. Vlad, M. Cazacu, M. F. Zaltariov, S. Shova, J. Bartolome, C. Turta	Molecules, 26, Article 5626/1-26 (2021)
196.	Gelatin reinforced with CNCs as nanocomposite matrix for <i>Trichoderma harzianum</i> KUEN 1585 spores in seed coatings	B. I. Dogaru, V. Stoleru, G. Mihalache, S. Yonsel, M. C. Popescu	Molecules, 26, Article 5755/1-21 (2021)
197.	Attempts to access a series of pyrazoles lead to new hydrazones with antifungal potential against <i>Candida</i> species including azole-resistant strains	G. Negru, L. Kamus, E. Bicu, S. Shova, B. Sendid, F. Dubar, A. Ghinet	Molecules, 26, Article 5861/1-14 (2021)
198.	Nitrogen-based linkers with a mesitylene core: Synthesis and characterization	L. G. Bahrin, A. Nicolescu, S. Shova, N. L. Marangoci, L. M. Birsa, L. G. Sarbu	Molecules, 26, Article 5952/1-13 (2021)

199. Stabilization techniques of essential oils incorporation into biodegradable polymeric materials for food packaging
E. Stoleru, M. Brebu
Molecules, 26, Article 6307/1-30 (2021)
200. Synthesis and toxicity evaluation of new pyrroles obtained by the reaction of activated alkynes with 1-methyl-3-(cyanomethyl)benzimidazolium bromide
B. C. Ivan, F. Dumitrescu, A. I. Anghel, R. V. Ancuceanu, S. Shova, D. Dumitrescu, C. Draghici, O. T. Olaru, G. M. Nitulescu, M. Dinu, S. F. Barbuceanu
Molecules, 26, Article 6435/1-20 (2021)
201. Novel lanthanide (III) complexes derived from an imidazole-biphenylcarboxylate ligand: Synthetic, structure and luminescence properties
M. C. Sardaru, N. L. Marangoci, S. Shova, D. Bejan
Molecules, 26, Article 6942/1-13 (2021)
202. Preparation and characterization of semi-IPN cryogels based on polyacrylamide and poly(N, N'-dimethylaminoethyl methacrylate). Functionalization of carrier with monochlorotriazinyl- β -cyclodextrin and release kinetics of curcumin
E. S. Dragan, M. V. Dinu, C. A. Gheorghita, M. M. Lazar, F. Doroftei
Molecules, 26, Article 6975/1-21 (2021)
203. Carbonic anhydrase inhibition with sulfonamides incorporating pyrazole- and pyridazinecarboxamide moieties provides examples of isoform selective inhibitors
A. Angelis, V. Kartsev, A. Petrou, M. Pinteala, V. Brovarets, R. Vydzhak, S. Panchishin, A. Geronikaki, C. T. Supuran
Molecules, 26, Article 7023/1-17 (2021)
204. In vitro antioxidant antitumor and photocatalytic activities of silver nanoparticles synthetized using Equisetum species: A green approach
D. Batir-Marin, C. Mircea, M. Boev, A. F. Bulec, A. Corciova, A. Fifere, A. Iacobescu, O. Cioanca, L. Verestiuc, M. Hancianu
Molecules, 26, Article 7325/1-18 (2021)
205. Benzimidazolium salts as starting materials or intermediates in 1,3-dipolar cycloadditions
A. M. Macsim, E. Georgescu, F. Georgescu, P. Filip, A. Nicolescu, C. Deleanu
Monatshefte fur Chemie, 152, 845-852 (2021)
206. Development of quantum dot (QD) based color converters for multicolor display
M. T. Saijad, A. K. Bansal, F. Antolini, E. Preis, L. Stroea, S. Toffanin, M. Muccini, L. Ortolani, A. Migliori, S. Allard, U. Scherf, I. D. W. Samuel
Nanomaterials, 11, Article 1089/1-10 (2021)
207. Tailoring mesoporous titania features by ultrasound-assisted sol-gel technique: Effect of surfactant/titania precursor weight ratio
E. Mahu, C. G. Coromelci, D. Lutic, I. V. Asaftei, L. Sacarescu, V. Harabagiu, M. Ignat
Nanomaterials, 11, Article 1263/1-15 (2021)
208. Obtaining nanostructured ZnO onto Si coatings for optoelectronic applications via eco-friendly chemical preparation routes
M. P. Sachea, E. Petromichelaki, C. Romanitan, M. Androulidaki, A. Manousaki, Z. Viskadourakis, R. Ikram,
Nanomaterials, 11, Article 2490/1-30 (2021)

	P. Pascariu, G. Kenanakis	
209.	Revealing the effect of synthesis conditions on the structural, optical and antimicrobial properties of cerium oxide nanoparticles	N. Fifere, A. Airinei, M. Dobromir, L. Sacarescu, S. I. Dunca Nanomaterials, 11, Article 2596/1-23 (2021)
210.	NanoTraPPED - a new method for determining the surface energy of nanoparticles via Pickering emulsion polymerization	A. Honciuc, O. I. Negru Nanomaterials, 11, Article 3200/1-17 (2021)
211.	Electrospun polyvinyl alcohol loaded with phytotherapeutic agents for wound healing applications	D. Serbezeanu, A. Bargan, M. Homocianu, M. Aflori, C. M. Rimbu, A. A. Enache, T. Vlad-Bubulac M. Aflori Nanomaterials, 11, Article 3336/1-13 (2021)
212.	Smart nanomaterials for biomedical applications - A review	I. Stoica, E. L. Epure, C. P. Constantin, M. D. Damaceanu, E. L. Ursu, I. Mihaila, I. Sava Nanomaterials, 11, Article 396/1-33 (2021)
213.	Evaluation of local mechanical and chemical properties via AFM as a tool for understanding the formation mechanism of pulsed UV laser-nanoinduced patterns on azo-naphthalene-based polyimide films	I. Stoica, E. L. Epure, C. P. Constantin, M. D. Damaceanu, E. L. Ursu, I. Mihaila, I. Sava Nanomaterials, 11, Article 812/1-23 (2021)
214.	New strategy for inducing anisotropy in polyimide films for nematics orientation in display applications	E. L. Epure, I. Stoica, R. M. Albu, C. Hulubei, A. I. Barzic Nanomaterials, 11, Article 3107/1-18 (2021)
215.	Chiral organic-inorganic lead halide perovskites based on α -alanine	V. Y. Sirenko, O. I. Kucheriv, D. D. Naumova, I. V. Fesych, R. P. Linnik, I. A. Dascalu, S. Shova, I. O. Fritsky, I. A. Guralskiy K. Liu, L. Marin, L. Xiao, X. Cheng New Journal of Chemistry, 45, 12606-12612 (2021)
216.	Fluorescent multicomponent polymer sensor for the sensitive and selective detection of Hg^{2+}/Hg^+ ions via dual mode fluorescence and calorimetry	I. Rosca, E. L. Ursu, A. Fifere New Journal of Chemistry, 45, 22888-22901 (2021)
217.	Polymeric carriers for transporting nucleic acids - Contributions to the field	L. Clima, A. I. Dascalu, B. F. Craciun, M. Pinteala New Trends in Macromolecular and Supramolecular Chemistry for Biological Applications, M. J. M. Abadie, M. Pinteala, A. Rotaru, Eds., Springer Nature Switzerland, 133-150 (2021)
218.	A microbiological epilogue - Nosocomial infections	I. Rosca, E. L. Ursu, A. Fifere New Trends in Macromolecular and Supramolecular Chemistry for Biological Applications, M. J. M. Abadie, M. Pinteala, A. Rotaru, Eds., Springer Nature Switzerland, 179-189 (2021)
219.	Inverse problems and hierarchical multiscale modelling of biological matter	A. Lyubartsev, A. Laaksonen New Trends in Macromolecular and Supramolecular Chemistry for Biological Applications, M. J. M. Abadie, M. Pinteala, A. Rotaru, Eds., Springer Nature Switzerland, 213-237 (2021)
220.	Non-viral vectors and drug delivery: In vitro assessment	D. Peptanariu, M. J. M. Abadie, M. Pinteala New Trends in Macromolecular and Supramolecular Chemistry

		for Biological Applications, M. J. M. Abadie, M. Pinteala, A. Rotaru, Eds., Springer Nature Switzerland, 239-254 (2021)
221.	Measuring ionic transport through lipid bilayers	R. Zonda, S. A. Ibanescu, M. Silion, A. Coroaba, D. L. Isac, M. J. M. Abadie, M. Pinteala
222.	Smart polymeric materials for drug delivery	G. Fundoreanu, S. Bucatariu, M. Constantin
223.	Inorganic nanoparticles as radical scavengers	A. Fifere, I. A. Turin-Moleavin, A. L. Lungoci, N. L. Marangoci, M. Pinteala
224.	Supramolecular guanosine-quadruplex hydrogels and hydrogel composites for cell growth applications	E. L. Ursu, A. Rotaru
225.	Hydrogelation of chitosan with monoaldehydes towards biomaterials with tuned properties	L. Marin, D. Ailincăi, M. M. Iftime, A. M. Craciun, A. Bejan, M. Pinteala, M. J. M. Abadie
226.	Molecular dynamics simulations and in silico analysis of supramolecular self-assembled structures	C. Cojocaru, A. Neamtu, T. Vasiliu, D. L. Isac, M. Pinteala
227.	Hair EDX analysis - A promising tool for micronutrient status evaluation of patients with IBD?	G. E. Gilca-Blanariu, A. Coroaba, M. Ciocoiu, A. Trifan, G. Dimofte, S. Diaconescu, V. A. Afrasanie, G. G. Balan, T. Pinteala, G. Stefanescu
228.	Evaluation of the healing effect of ointments based on the products on cutaneous lesions in wistar rats	C. V. Andritoiu, C. Lungu, M. Danu, B. Ivanescu, C. E. Andriescu, L. Vlase, C. Havarneanu, C. E. Iurciuc (Tincu), M. Popa
229.	Evaluation of the wound healing potential of some natural polymers on three experimental models	C. V. Andritoiu, C. E. Andriescu, M. Danu, C. Havarneanu, C. E. Iurciuc (Tincu), M. Popa
		Nutrients, 13, Article 2572/1-15 (2021)
		Pharmaceuticals, 14, Article 1146/1-24 (2021)
		Pharmaceuticals, 14, Article 465/1-17 (2021)

	Lungu, B. Ivanescu, C. Havarneanu, M. Popa A. Angeli, V. Kartsev, A. Petrou, M. Pinteala, R. M. Vydzhak, S. Y. Panchishin, V. Brovarets, V. De Luca, C. Capasso, A. Geronikaki, C. T. Supuran	Pharmaceutics, 14, Article 828/1-19 (2021)
230.	New sulfanilamide derivatives incorporating heterocyclic carboxamide moieties as carbonic anhydrase inhibitors	R. Nicu, F. Ciolacu, D. E. Ciolacu
231.	Advanced functional materials based on nanocellulose for pharmaceutical/medical applications	Pharmaceutics, 13, Article 1125/1-57 (2021)
232.	Development of dextran-coated magnetic nanoparticles loaded with protocatechic acid for vascular inflammation therapy	M. Anghelache, M. Turtoi, A. R. Petrovici, A. Fifere, M. Pinteala, M. Calin
233.	Dual crosslinked chitosan/PVA hydrogels containing silver nanoparticles with antimicrobial properties	D. M. Suflet, I. Popescu, I. M. Pelin, D. L. Ichim, O. M. Daraba, M. Constantin, G. Fundueanu
234.	Bioactive collagen-hydrolysate chitosan essential oil electrospun nanofibers designed for medical wound dressings	M. Rapa, C. Gaidau, L. Mititelu-Tartau, M. D. Berechet, A. Co. Berbecaru, I. Rosca, A. P. Chiriac, E. Matei, A. M. Predescu, C. Predescu
235.	Manganese-doped N-hydroxyphthalimide-derived carbon dots - Theranostics applications in experimental breast cancer models	A. Tiron, C. S. Stan, G. Luta, C. M. Uritu, I. C. Vacarean-Trandafir, G. D. Stanciu, A. Coroaba, C. E. Tiron
236.	Biocomposite hydrogels for the treatment of bacterial infections: Physicochemical characterization and in vitro assessment	D. M. Rata, A. N. Cadinou, M. Popa, L. I. Atanase, O. M. Daraba, I. Popescu, L. E. Romila, D. L. Ichim
237.	Synthesis of poly(ethylene brassylate-co-squaric acid) as potential essential oil carrier	A. P. Chiriac, A. G. Rusu, L. E. Nita, A. M. Macsim, N. Tudorachi, I. Rosca, I. Stoica, D. Timpu, M. Aflori, F. Doroftei
238.	Polymeric carriers designed for encapsulation of essential oils with biological activity	A. P. Chiriac, A. G. Rusu, L. E. Nita, V. M. Chiriac, I. Neamtu, A. Sandu
239.	The multifaceted role of extracellular vesicles in glioblastoma: microRNA nanocarriers for disease progression and gene therapy	N. Simionescu, R. Zonda, A. R. Petrovici, A. Georgescu
240.	Design, synthesis, and biological evaluation of selective hCA IX inhibitors	F. Garta, D. Vullo, A. Angeli
		pH-Interfering Agents as Chemosensitizers in Cancer Therapy, C. T. Supuran, S.

241.	Microscopic shear flow simulations of a biaxial smectic A liquid crystal based on the soft ellipsoid string-fluid	S. Sarman, A. Laaksonen	Carradori, Eds., Academic Press, London, 63-78 (2021)
242.	Coarse-grained simulations of ionic liquid materials: from monomeric ionic liquids to ionic liquid crystals and polymeric ionic liquids	Y. L. Wang, B. Li, A. Laaksonen	Physical Chemistry Chemical Physics, 23, 15183-15195 (2021)
243.	Apiaceae essential oils: Boosters and terbinazine activity against dermatophytes and potent antiinflammatory effectors	A. Trifan, S. V. Luca, A. C. Bostanaru, M. Brebu, A. Jitareanu, R. T. Cristina, K. Skalicka-Wozniak, S. Granica, M. E. Czerwinska, A. Kruk, H. Greice-Gerges, E. Sieniawska, M. Mares	Physical Chemistry Chemical Physics, 23, 19436-19456 (2021)
244.	Phytochemical characterization and evaluation of the antioxidant and anti-enzymatic activity of five common species: Focus on their essential oils and spent material extractives	A. Trifan, G. Zengin, M. Brebu, K. Skalicka-Wozniak, S. V. Luca	Plants, 10, Article 2378/1-17 (2021)
245.	Surface properties of POSS nanocomposites	M. Murariu, A. V. Oancea, C. Ursu, B. G. Rusu, C. Cotofana, B. Simionescu, M. Olaru	Plants, 10, Article 2692/1-23 (2021)
246.	Synthesis, crystal structure and luminescent properties of isoreticular lanthanide-organic frameworks based on a tetramethyl-substituted terphenyldicarboxylic acid	I. A. Dascalu, E. A. Mikhalyova, S. Shova, B. I. Bratanovici, R. Ardeleanu, N. Marangoci, V. Lozan, G. Roman	Polyhedral Oligomeric Silsequinoxane (POSS) Polymer Nanocomposites. From Synthesis to Applications, S. Thomas, L. Somasekharan, Eds., Elsevier, Amsterdam, 421-448 (2021)
247.	1-(4-Carboxyphenyl)-5-methyl-1H-1,2,3-triazole-4-carboxilic acid - A versatile ligand for the preparation of coordination polymers and mononuclear complexes	B. I. Bratanovici, S. Shova, V. Lozan, I. A. Dascalu, R. Ardeleanu, G. Roman	Polyhedron, 194, Article 114929/1-9 (2021)
248.	Slow relaxation of the magnetization in a {Co ^{II} Mn ^{III} } heterometallic brick-wall network	M. G. Alexandru, D. Visinescu, S. Shova, S. E. Stiriba, J. Cano, F. Lloret, M. Julve	Polyhedron, 200, Article 115115/1-11 (2021)
249.	Optical properties and biointerface interactions of chitin	A. I. Barzic, R. M. Albu	Polymer Bulletin, 78, 6535-6548 (2021)
250.	Critical assessment of structural changes in some copolyamide-clay hybrid materials in correlation with the filler characteristics	M. Zanoaga, A. Airinei, N. Fifere, C. V. Grigoras, D. Timpu, F. Tanasa	Polymer Composites, 42, 5936-5951 (2021)
251.	Effect of mechanical treatments on orientation behavior and spectral properties of azoderivative dyes incorporated in poly(vinyl alcohol) films	R. M. Albu, I. Stoica, A. I. Barzic, M. Postolache, M. D. Angheluta, D. O. Dorohoi	Polymer Engineering and Science, 61, 2453-2465 (2021)
252.	Study on highly thermostable low-k polymer based on fluorene-containing polyetherimides	M. A. Olariu, C. Hamciuc, M. Asandulesa, E.	Polymer Engineering and Science, 61, 2639-2652 (2021)

		Hamciuc, E. L. Epure, V. Tsakiris, G. Lisa C. Racles, M. Asandulesa, V. Tiron, C. Tugui, N. Vornicu, B. I. Ciubotaru, M. Micusik, M. Osmatova, A. L. Vasiliu, C. Ciomaga L. Sacarescu, C. Cojocaru, G. Roman, G. Sacarescu, M. Simionescu, P. Samoila, A. L. Chibac-Scutaru D. A. Blaj, M. Balan- Porcarasu, B. A. Petre, V. Harabagiu, C. Peptu V. Gaina, M. Nechifor, C. Gaina, O. Ursache	Polymer, 217, Article 123480/1-16 (2021)
253.	Elastic composites with PDMS matrix and polysulfone-supported silver nanoparticles as filler		
254.	Nano-assembly and optical properties of difluoroboron dibenzoylmethane-polysilane		Polymer, 232, Article 124188/1-10 (2021)
255.	MALDI mass spectrometry monitoring of cyclodextrin-oligolactide derivatives synthesis		Polymer, 233, Article 124186/1-12 (2021)
256.	Maleimides - a versatile platform for polymeric materials designed/tailored for high performance applications		Polymer-Plastics Technology and Materials, 60, 253-270 (2021)
257.	New hyaluronic acid/polyethylene oxide-based electrospun nanofibers. Design, characterization and in vitro biological evaluation	O. M. Ionescu, A. Mignon, A. T. Iacob, N. Simionescu, L. G. Confederat, C. Tuchilus, L. Profire L. Stroea, A. L. Chibac-Scutaru, V. Melinte	Polymers, 13, Article 1291/1-16 (2021)
258.	Aliphatic polyurethane elastomers quaternized with silane-functionalized TiO ₂ nanoparticles with UV-shielding features		Polymers, 13, Article 1318/1-17 (2021)
259.	From amorphous silicones to Si-containing highly ordered polymers: Some Romanian contributions in the field	M. Cazacu, C. Racles, M. F. Zaltariov, M. Dascalu, A. Bele, C. Tugui, A. Bargan, G. Stiubianu	Polymers, 13, Article 1605/1-21 (2021)
260.	PLA-based materials containing bioplasticizers and chitosan modified with rosehip oil for ecological packing	R. N. Darie-Nita, M. Rapa, M. Sivertsvik, J. T. Rosnes, E. E. Popa, R. P. Dumitriu, O. Marincas, E. Matei, C. Predescu, C. Vasile	Polymers, 13, Article 1610/1-23 (2021)
261.	Novel polyimide/copper-nickel ferrite composites with tunable and dielectric properties	C. Hamciuc, M. Asandulesa, E. Hamciuc, T. Roman, M. A. Olariu, A. Pui	Polymers, 13, Article 1646/1-15 (2021)
262.	Affordable magnetic hydrogels prepared from biocompatible and biodegradable sources	R. I. Baron, G. Biliuta, V. Socoliuc, S. Coseri	Polymers, 13, Article 1693/1-15 (2021)
263.	Transcutaneous drug delivery systems based on collagen/polyurethane composites reinforced with cellulose	N. Anghel, V. M. Dinu, L. Verestiu, I. A. Spiridon	Polymers, 13, Article 1845/1-15 (2021)
264.	Effect of thermal aging on the physico-chemical and optical properties of(ester urethane) elastomers designed for passive damping (pads) of the railway	L. Rosu, C. D. Varganici, D. Rosu, S. Oprea	Polymers, 13, Article 192/1-20 (2021)
265.	Development and characterization of novel cellulose composites obtained in	I. Spiridon, I. M. Andrei, N. Anghel, M. V. Dinu, B. I. Ciubotaru	Polymers, 13, Article 2176/1-12 (2021)

- 1-ethyl-3-methylimidazolium chloride used as drug delivery systems
266. Synthesis and characterization of new-ferrite-lignin hybrids I. Spiridon, I. A. Dascalu, A. Coroaba, I. Apostol, M. N. Polamaru, A. R. Iordan, A. I. Borhan Polymers, 13, Article 2495/1-15 (2021)
267. Dielectric, thermal and water absorption properties of some EPDM/flax fiber composites A. Airinei, M. Asandulesa, M. D. Stelescu, N. Tudorachi, N. Fifere, A. Bele, V. Musteata Polymers, 13, Article 2555/1-19 (2021)
268. Dynamic mechanical analysis and thermal expansion of lignin-based biopolymers S. N. Mazurchevici, D. Vaideanu, D. Rapp, C. D. Varganici, C. Carausu, M. Boca, D. Nedelcu Polymers, 13, Article 2593/1-20 (2021)
269. 3,4-Ethylenedioxythiophene (EDOT) end-group functionalized poly- ϵ -caprolactone (PCL): Self-assembly in organic solvents and its coincidentally observed peculiar behavior in thin film and protonated media A. D. Bendrea, L. Cianga, G. L. Ailiesei, E. L. Ursu, D. G. Colak, I. Cianga Polymers, 13, Article 2720/1-27 (2021)
270. Thermosensitive poloxamer-graft-carboxymethyl pullulan: A potential injectable hydrogel for drug delivery M. Constantin, B. Cosman, M. Bercea, G. L. Ailiesei, G. Fundueanu Polymers, 13, Article 3025/1-18 (2021)
271. The effect of different soft core/hard shell ratios on the coating performance of acrylic copolymer latexes C. N. Cheaburu-Yilmaz, O. Yilmaz, R. N. Darie-Nita Polymers, 13, Article 3521/1-12 (2021)
272. Encapsulation of natural bioactive compounds by electrospinning - Applications in food storage and safety B. S. Munteanu, C. Vasile Polymers, 13, Article 3771/1-28 (2021)
273. An overview on composite sorbents based on polyelectrolytes used in advanced wastewater treatment F. Bucatariu, C. Teodosiu, I. Morosanu, D. Fighir, R. Ciobanu, L. M. Petrila, M. Mihai Polymers, 13, Article 3963/1-28 (2021)
274. Photochemical stability of a cotton fabric surface dyed with a triphenodioxazine dye L. Rosu, C. C. Gavat, D. Rosu, C. D. Varganici, F. Mustata Polymers, 13, Article 3986/1-22 (2021)
275. Composite materials based on iron oxide nanoparticles and polyurethane for improving quality of MRI L. M. Gradinau, M. Barbalata-Mandru, M. Drobotă, M. Aflori, M. Butnaru, M. Spiridon, F. Doroftei, M. Aradoaei, R. C. Ciobanu, S. Vlad S. Coseri Polymers, 13, Article 4316/1-22 (2021)
276. Insights on cellulose research in the last two decades in Romania A. I. Barzic Polymers, 13, Article 689/1-18 (2021)
277. Rheology and structural properties of polysaccharides Polysaccharides: Properties and Applications, Inamuddin, M. I. Ahamed, R. Bodula, T. Altalhi, Eds., Wiley-Scrievener Publishing LLC, Hoboken NY, USA, 367-383 (2021)

278.	Development of bioactive polymeric materials by incorporation of essential/vegetal oils into biopolymer matrices	E. Stoleru, R. P. Dumitriu, M. Brebu, C. Vasile, A. Enache	Proceedings MDPI, 69, Article 25/1-7 (2021)
279.	Polymer nanocomposites for lowering heating and cooling loads in buildings	G. T. Stiubianu	Proceedings MDPI, 69, Article 35/1-8 (2021)
280.	Design of HPL S laser system self alignment beam pointing integrated solution	A. Costea, P. Schiopu, A. Farcas	Proceedings of the 13 th International Conference on Electronics, Computers and Artificial Intelligence, ECAI, 1-3 July 2021, Pitesti, Romania, 1-6 (2021)
281.	Bio-based coatings from epoxy resins crosslinked with a rosin acid derivative for wood thermal and antifungal protection	L. Rosu, F. Mustata, D. Rosu, C. D. Varganici, I. Rosca, T. Rusu	Progress in Organic Coatings, 151, Article 106008/1-11 (2021)
282.	Development of adsorbent materials based on functionalized copolymers with future applications as antibacterial agent in life quality and environmental field	L. Lupa, A. Filimon, A. Popa, S. Dunca	Reactive and Functional Polymers, 161, Article 104845/1-10 (2021)
283.	Contributions to the quaternization description and kinetics illustrated on poly(dimethylaminoethyl) methacrylate	G. L. Ailiesei, V. Barboiu, E. S. Dragan	Reactive and Functional Polymers, 161, Article 104852/1-7 (2021)
284.	Intelligent microvehicles for drug transport and controlled release to cancer cells	M. Constantin, S. Bucataru, I. Popescu, B. Cosman, P. Ascenzi, G. Fundueanu	Reactive and Functional Polymers, 165, Article 104961/1-10 (2021)
285.	Biobased ionically cross-linked alginate composites for PEMFC potential applications	P. Samoila, I. Grecu, M. Asandulesa, C. Cojocaru, V. Harabagiu	Reactive and Functional Polymers, 165, Article 104967/1-11 (2021)
286.	Design of multifunctional composite materials based on acrylic ion exchangers and CaCO ₃ as sorbents for small organic molecules	M. M. Zaharia, A. L. Vasiliu, M. A. Trofin, D. Pamfil, F. Bucataru, S. Racovita, M. Mihai	Reactive and Functional Polymers, 166, Article 104997/1-17 (2021)
287.	Double functionalization of chitosan based nanofibers towards biomaterials for wound healing	R. Lungu, A. Anisiei, I. Rosca, A. I. Sandu, D. Ailincăi, L. Marin	Reactive and Functional Polymers, 167, Article 105028/1-10 (2021)
288.	Two-dimensional coordination polymers containing permethylated motif - promising candidates for 2D emerging materials. Structural, behavioral and functional particularities	A. C. Stoica, M. Damoc, M. F. Zaltariov, C. Racles, M. Cazacu	Reactive and Functional Polymers, 168, Article 105039/1-15 (2021)
289.	Tailoring the properties of PVA/HPC/BSA hydrogels for wound dressing applications	M. Bercea, L. M. Gradinaru, S. Morariu, I. A. Plugariu, R. V. Gradinaru	Reactive and Functional Polymers, 170, Article 105094/1-10 (2021)
290.	An investigation of two copper(II) complexes with a triazole derivative as a ligand: magnetic and catalytic properties	Y. P. Petrenko, K. Piasta, D. M. Khomenko, R. O. Doroshchuk, S. Shova, G. Novitchi, Y. Toporivska, E. Gumienna-Kontecka, L. M. D. R. S. Martins, R. D. Lampeka	RSC Advances, 11, 23442-23449 (2021)

291.	Magnetic silica particles functionalized with guanidine derivatives for microwave-assisted transesterification of waste oil	P. Chipurici, A. Vlaicu, I. Calinescu, M. Vinatoru, C. Busuioc, A. Dinescu, A. Ghebaur, E. Rusen, G. Voicu, M. Ignat, A. Diacon L. Ghimici, M. Nichifor	Scientific Reports, 11, Article 17518/1-13 (2021) Separation and Purification Technology, 276, Article 119325/1-8 (2021)
292.	Efficacy of quaternary ammonium groups based polyelectrolytes for the reduction of various pesticide formulations content from synthetic wastewater	M. Bercea, B. A. Wolf	Soft Matter, 17, 5214-5220 (2021)
293.	Detection of polymer compatibility by means of self-organization : poly(ethylene oxide) and poly(sodium 4-styrene sulfonate)	P. Nitschke, B. Jarzabek, M. D. Damaceanu, A. E. Bejan, P. Chaber	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 248, Article 119242/1-10 (2021)
294.	Spectroscopic and electrochemical properties of thiophene-phenylene based Schiff-bases with alkoxy side groups, towards photovoltaic applications	A. M. Craciun, A. Rotaru, C. Cojocaru, I. I. Mangalagiu, R. Danac D. Ciolacu	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 249, Article 119318/1-14 (2021) Sustainability of Biomass through Bio-based Chemistry, V. I. Popa, Ed., CRC Press, Boca Raton, Fl., 161-190 (2021)
295.	New 2,9-disubstituted-1,10-phenanthroline derivatives with anticancer activity by selective targeting of telomeric G-quadruplex DNA	A. M. Craciun, A. Rotaru, C. Cojocaru, I. I. Mangalagiu, R. Danac D. Ciolacu	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 249, Article 119318/1-14 (2021) Sustainability of Biomass through Bio-based Chemistry, V. I. Popa, Ed., CRC Press, Boca Raton, Fl., 161-190 (2021)
296.	Sustainable hydrogels from renewable resources	D. Ciolacu	Sustainability of Biomass through Bio-based Chemistry, V. I. Popa, Ed., CRC Press, Boca Raton, Fl., 201-228 (2021)
297.	Morphological aspects of sustainable hydrogels	D. Rusu, D. Ciolacu, R. Vlase	Sustainability of Biomass through Bio-based Chemistry, V. I. Popa, Ed., CRC Press, Boca Raton, Fl., 201-228 (2021)
298.	Bio-based stimuli-responsive hydrogels with biomedical applications	R. Nicu, D. Ciolacu	Sustainability of Biomass through Bio-based Chemistry, V. I. Popa, Ed., CRC Press, Boca Raton, Fl., 229-262 (2021)
299.	Curdlan derivatives: New approaches in synthesis and their applications	D M. Suflet	Sustainability of Biomass through Bio-based Chemistry, V. I. Popa, Ed., CRC Press, Boca Raton, Fl., 263-286 (2021)
300.	Polymeric antimicrobials with quaternary ammonium moieties	A. G. Grigoras	Sustainable Agriculture Reviews, 49 (Mitigation of Antimicrobial Resistance, vol. 2. Natural and Synthetic Approaches), H. Panwar, C. Sharma, E. Lichtfouse, Eds., Springer, 123-170 (2021)
301.	Synthesis of -substituted 2-(1H-1,2,4-triazol-3-yl)acetates and 5 - amino-2,4-dihydro-3H-pyrazol-3-ones via the Pinner strategy	D. M. Khomenko, R. O. Doroshchuk, H. V. Ivanova, B. V. Zakharchenko, I. V. Raspertova, O. V. Vaschenko, S. Shova, A. V. Dobrydnev, Y. S. Moroz, O. O.	Tetrahedron Letters, 69, Article 152956/1-5 (2021)

302.	Aqueous solution of chitosan : Viscometric and flocculation properties	Grygorencu, R. D. Lampeka C. E. Brunchi, L. Ghimici	TEXTEH Proceedings (The 10th International Conference TEXTEH, 21-22 oct. 2021, Bucharest, on line), 123-130 (2021)
303.	Factors that affect the mechanical strength of archaeological wood - A case study of 18th century wooden water pipes from Boznicza street in Poznan, Poland	M. Broda, C. M. Popescu, D. I. Timpu, D. Rowinski, E. Roszyk	Materials, 14, Article 7632/1-14 (2021)
304.	Characterization of metal threads from archaeological textiles religious by methods of archaeometry	N. Vornicu, C. Bibire, M. F. Zaltariov	Annals of the University of Oradea, Fascicle Textiles, Leatherwork, 22, 95-100 (2021)
305.	Poly(vinylpyrrolidone)-chitosan hydrogels as matrices for controlled drug release	A. M. Ipate, D. Serbezeanu, A. Bargan, C. Hamciuc, L. Ochiuz, S. Gherman A. Anisiei, A. C. Bostanaru, M. Mares, L. Marin	Cellulose Chemistry and Technology, 55, 63-73 (2021)
306.	Imitation of chitosan nanofibers in a heterogeneous system. Synthesis, optimization and impact of fiber morphology	E. Ungureanu, A. E. Trofin, L. C. Trinca, A. M. Arton, O. C. Ungureanu, M. E. Fortuna, D. C. Jitareanu, V. I. Popa S. Motoc, C. Ianasi, A. Baciu, C. Delcioiu, L. Sacarescu, A. M. Putz, F. Manea	Cellulose Chemistry and Technology, 55, 785-793 (2021)
307.	Studies on kinetics and adsorption equilibrium of lead and zinc ions from aqueous solutions on Sarkanda grass lignin	E. Ungureanu, A. E. Trofin, L. C. Trinca, A. M. Arton, O. C. Ungureanu, M. E. Fortuna, D. C. Jitareanu, V. I. Popa A. I. Barzic	Cellulose Chemistry and Technology, 55, 939-948 (2021)
308.	Humic acid removal from water by sorption and photocatalysis under vis irradiation using Fe2O3/silica nanocomposite	S. Motoc, C. Ianasi, A. Baciu, C. Delcioiu, L. Sacarescu, A. M. Putz, F. Manea	Environment Engineering and Management Journal, 20, 335-345 (2021)
309.	Percolation effects in MCNT-filled polystyrene: Rheological, optical, adhesion and conductive investigations	A. I. Barzic	Materiale Plastice, 58(1), 69-77 (2021)
310.	Synthesis of ethylenediaminetetraacetic acid - functionalized chitosan cryogels as potential sorbents of heavy metal ions	M. M. Lazar, I. A. Dinu, M. V. Dinu	Materiale Plastice, 58(2), 155-166 (2021)
311.	PLA nanocomposites with antimicrobial action, based on olive fruit polyphenols and citrus fruit extracts encapsulated in maltodextrin	I. V. Tudose, I. Rosca, C. Romanitan, O. N. Ionescu, K. Petrotos, S. Zaountsos, M. P. Suchea, E. Koudoumas N. Anghel, M. V. Dinu, F. Doroftei, I. Spiridon	Proceedings of the 2012 International Semiconductor Conference (CAS 2021), Oct. 6-8, 2021, Sinaia, Romania, 269-272 (2021)
312.	Xanthan matrix as drug delivery system	D. Serbezeanu, T. Vlad-Bubulac, E. Hamciuc, C. Hamciuc, G. Lisa, I. Anghel, I. E. Sofron, D. M. Preda	Revista de Chimie, 72(1), 89-98 (2021)
313.	Study on thermal and flame retardants properties of phosphorus-containing polyimides	M. Cristea, D. Ionita, B. C. Simionescu L. Kiss, S. Shova, M. Vlassa, A. Silvestru, C. I. Rat, C. Silvestru	Revista de Chimie, 72(4), 13-21
314.	Petriu Poni - A model of leadership, integrity and tenacity	M. Cristea, D. Ionita, B. C. Simionescu	Revista de Chimie, 72(4), 8-12 (2021)
315.	{2,6-Bis[(dimethylamino)methyl]phenyl}mercury(II) acetate, [2,6-(Me ₂ NCH ₂) ₂	L. Kiss, S. Shova, M. Vlassa, A. Silvestru, C. I. Rat, C. Silvestru	Revue Roumaine de Chimie, 66, 167-177 (2021)

	C6H3]Hg(OAc) - A useful intermediate for selective palladation of 1,3-(Me2NCH2)2 C6H4		
316.	Investigation of surface relief gratings on azo-polyimide films using atomic force microscopy	I. Sava, I. Stoica, I. Mihaila, I. Topala	Revue Roumaine de Chimie, 66, 193-198 (2021)
317.	Effect of scanning speed on AFM height images and 3D surface texture parameters explored on smooth and rough polymer surfaces	I. Stoica, E. G. Hitruc	Revue Roumaine de Chimie, 66, 199-204 (2021)
318.	Polyimides containing chalcogen atoms in solution phase: viscoelasticity and interferometry analyses	A. I. Barzic, R. M. Albu, C. Hulubei	Revue Roumaine de Chimie, 66, 361-366 (2021)
319.	Molecular modeling, spectral and optical properties of HPMC in different solvents	R. M. Albu, L. I. Buruiana, S. L. Nica, A. I. Barzic	Revue Roumaine de Chimie, 66, 381-386 (2021)
320.	Co-assembled peptides hierarchically oriented for supramolecular gel formation	A. Croitoru, L. E. Nita, A. G. Rusu, F. Doroftei, L. Verestiu	Revue Roumaine de Chimie, 66, 449-458 (2021)
321.	Effect of UV irradiation on surface of collagen film	M. Drobotă, M. Barbalata-Mandru, L. M. Grădinaru, I. Alexa	Revue Roumaine de Chimie, 66, 81-85 (2021)
322.	Preparation and surface characterization of polyurethane hydrogels	M. Barbalata-Mandru, M. Bercea, L. M. Grădinaru, M. Aflori, R. Albulescu	Revue Roumaine de Chimie, 66, 87-93 (2021)
323.	Investigation of cellulose derivatives in solution: Laser light scattering and gel permeation chromatography studies	A. G. Grigoras, V. C. Grigoras	Romanian Journal of Physics, 66, Article 902/1-10 (2021)
324.	Polysulfone dispersed liquid crystals as promising materials for flexible substrates of organic light emitting diodes	D. Popovici, O. Dumbrava, M. A. Paun	Scientific Bulletin, Series A: Applied Mathematics and Physics, University Politehnica of Bucharest, 83, 201-212 (2021)
325.	Effect of the dianhydride moieties on refraction properties of polyimides based on chalcogen elements	A. I. Barzic, M. Albu, M. Soroceanu, A. D. Diaonu, B. C. Condurache, I. Stoica	Tehnomus Journal, 28, 69-73 (2021)
326.	Plasma induced changes on the surface features of a polyimide and their role in interfacial adhesion	I. Stoica, R. M. Albu, L. I. Buruiana, M. Lungan, A. I. Barzic	Tehnomus Journal, 28, 78-83 (2021)
327.	The influence of filler combination on the refractive index of polyimides used in photovoltaics	A. I. Barzic, R. M. Albu, M. A. Lungan, I. Stoica	Tehnomus Journal, 28, 84-88 (2021)
328.	Effect of polymer structure and morphology on interfacial interaction to some microorganisms	I. Stoica, L. I. Buruiana, R. M. Albu, M. A. Lungan, A. I. Barzic	Tehnomus Journal, 28, 95-100 (2021)
329.	Green Polymer Chemistry and Composites. Pollution Prevention and Waste Reduction	N. K. Rawat, I. Stoica, A. K. Haghi, Eds.	Apple Academic Press, Boca Raton, USA, 294 p (2021)
330.	Imidic Polymers and Green Polymer Chemistry: New Technology and Development in Process and Product	A. I. Barzic, N. K. Rawat, A. K. Haghi, Eds.	Apple Academic Press, Oakville, Canada, 356 p (2021)
331.	Chemistry of Functional Materials Surfaces and Interfaces: Fundamentals and Applications	A. Honciuc	Elsevier, Amsterdam, 280p (2021)

332. New Trends in Macromolecular and Supramolecular Chemistry for Biological Applications M. J. M. Abadie, M. Pinteala, A. Rotaru, Eds. Springer Nature Switzerland, 371 p (2021)
333. Institutul de Chimie Macromoleculară "Petru Poni" din Iasi. Activitate științifica 2013 - 2020 A. Airinei, Coordonator Editura PIM, Iasi, 379 p (2021)