Lista lucrari 2020

1.	Epoxy coatings based on modified vegetable oils for wood surface protection against fungal degradation	L. Rosu, C. D. Varganici, F. Mustata, D. Rosu, I. Rosca, T. Rusu	ACS Applied Materials and Interfaces, 12, 14443-14458 (2020)
2.	Electrically driven artificial muscles using novel polysiloxane elastomers modified with nitroaniline push-pull moieties	E. Perju, S. Shova, D. M. Opris	ACS Applied Materials and Interfaces, 12, 23432-23442 (2020
3.	Removal and separation of heavy metal ions from multicomponent simulated waters using silica/polyethyleneimine composite microparticles	F. Bucatariu, C. A. Ghiorghita, M. M. Zaharia, S. Schwarz, F. Simon, M. Mihai	ACS Applied Materials and Interfaces, 12, 37585-37596 (2020
4.	A 2D coordination polymer assembled from a nickel (II) tetraazamacrocyclic cation and 4,4'-(dimethylsilanediyl)diphthalate(3-) linker	S. P. Gavrish, S. Shova, M. Cazacu, Y. D. Lampeka	Acta Crystallographica Section C: Structural Chemistry, 76 (Part 3), 419-426 (2020)
5.	Syntheses and crystal structures of the one-dimensional coordination polymers formed by [Ni(cyclam)]2+ cations and 1,3-bis(3-carboxypropyl)tetramethyldisiloxane anions in different degrees of deprotonation	S. P. Gavrish, S. Shova, M. Cazacu, M. Dascalu, Y. D. Lampeka	Acta Crystallographica Section E: Crystallographic Communications, 76(Part 3), 446-451 (2020)
6.	Crystal structure of the one-dimensional coordination polymer formed by the macrocyclic [Ni(cyclam)]2+ cation and the dianion of diphenylsilanediylbis(4-benzoic acid)	S. P. Gavrish, S. Shova, M. Cazacu, Y. D. Lampeka	Acta Crystallographica Section E: Crystallographic Communications, 76, 929-932 (2020)
7.	Crystal structure of catena-poly[[[diaqua[1,2-bis(pyridin-4-yl)ethene]{4-[2-(pyridin-4-yl)ethen-yl]pyridinium}gold(I)iron(II)]-di-μ -cyanido] bis[dicyanidogold(I)] 1,2-bis(pyridin-4-yl)ethene dihydrate]	S. V. Partsevska, D. D. Naumova, I. P. Matushko, I. A. Guralskiy	Acta Crystallographica Section E: Crystallographic Communications, 76, 944-947 (2020)
8.	Crystal structure of dichlorido-1kCl, 2kCl-(μ_2-3,5-dimethyl-1H-pyrazolato-1kN2:2kN1)(3,5-dimethyl-1H-pyrazole-2kN2)μ -2-[2-hydroxyethyl)amino-1k2N,O] ethanolato-1:2k2O:O}dicopper(II)	O. S. Vynohradov, V. A. Pavlenko, I. S. Safyanova, K. Znovjyak, S. Shova, S. M. Safarmamadov	Acta Crystallographica, Section E: Crystallographic Communications, 76, 1503-1507 (2020)
9.	Coordination compounds with siloxane/silane-containing ligands capable of self-assembly at nano/micro scale in solid state and in solution	M. F. Zaltariov, M. Cazacu	Advances in Inorganic Chemistry, 76(Nanoscale Coordination Chemistry), D. Ruiz Molina, R. van Eldik, Eds., Academic Press, London, 155-196 (2020)

10.	Facile method for obtaining gold-coated polyester surfaces with antimicrobial properties	M. Drobota, M. Butnaru, N. Vornicu, O. Plopa, M. Aflori	Advances in Polymer Technology, vol. 2020, Article 1D4504062/1-12 (2020)
11.	Evaluation of the antifungal activity of gold-chitosan and carbon nanoparticles on Fusarium oxysporum	F. D. Lipsa, E. L. Ursu, C. Ursu, S. Ulea, A. Cazacu	Agronomy, 10, Article 1143/1-11 (2020)
12.	Three reactions, one catalyst: A multi-purpose platinum(IV) complex and its silica-supported homologue for environmentally friendly processes	C. Racles, M. F. Zaltariov, M. Damoc, A. M. Macsim, M. Iacob, L. Sacarescu	Applied Organometallic Chemistry, 34, e5422/1-15 (2020)
13.	New ecological solutions involved in the cleaning of a 19th century icon	T. C. Iurcovschi, V. Vasilache, I. Sandu, M. Zaharia, O. Pintilie, A. V. Sandu	Applied Sciences, 10, Article 1175/1-12 (2020)
14.	Photopolymerized films with ZnO and doped ZnO particles used as efficient photocatalysts in Malachite green dye decomposition	V. E. Podasca, M. D. Damaceanu	Applied Sciences, 10, Article 1954/1-16 (2020)
15.	Effect of ITO electrode patterning on the properties of organic heterostructures based on non-fullerene acceptor prepared by MAPLE	A. Stanculescu, C. Breazu, M. Socol, O. Rasoga, N. Preda, G. Petre, A. M. Solonaru, M. Grigoras, F. Stanculescu, G. Socol, G. Popescu-Pelin, M. Girtan	Applied Surface Science, 509, Article 145351/1-6 (2020)
16.	Keto-enol tautomerism in new silatranes Schiff bases tailed with different substituted salicylic aldehyde	A. Bargan, M. F. Zaltariov, A. Vlad, A. M. C. Dumitriu, A. Soroceanu, A M. Maxim, M. Dascalu, C. D. Varganici, M. Cazacu, S. Shova	Arabian Journal of Chemistry, 13, 3100-3111 (2020)
17.	Curing and thermal degradation of diglycidyl ether of bisphenol A epoxy resin crosslinked with natural hydroxy acids as environmentally friendly hardners	N. Tudorachi, F. Mustata	Arabian Journal of Chemistry, 13, 671-682 (2020)
18.	Chitin- and chitosan-based bionanocomposites for active packaging	M. Rapa, C. Vasile	Biocomposites for Food Packaging Applications, J. Iacob, S. Loganathan, S. Thomas, Eds., CRC Press, Boca Raton, Fl., 59-68 (2020)
19.	Insight into the anticancer activity copper(II) 5-methylenetrimethylammonium-thiosemicarbazonates and their interaction with organic cation transporters	M. N. M. Milunovic, O. Palamarciuc, A. Sirbu, S. Shova, D. Dumitrescu, D. Dvoranova, P. Rapta, T. V. Petrasheuskaya, E. A. Enyedy, G. Spengler, M. Ilic, H. H. Sitte, G. Lubec, V. B. Arion	Biomolecules, 10, Article 1213/1-30 (2020)
20.	X-ray crystallography of Epacadostat in adduct with carbonic anhydrase IX	A. Angeli, T. S. Peat, L. Selleri, A. Saleh, A. Altamimi, C. T. Supuran, F. Carta	Bioorganic Chemistry, 97, Article 103669/1-4 (2020)

21.	Diagnosis of inborn metabolic disorders assisted by NMR spectroscopy - recent cases from Institute of Mother and Child Chisinau	A. F. Nicolescu, N. Revenco, S. Gladun, N. Usurelu, C. Deleanu	Buletin de Perinatologie, 1(86), 107-111 (2020)
22.	Nonketotic hyperglycenemia - case report	V. Hlistun, D. Blanita, V. Lupu, N. Golub, A. Oglinda, S. Garaeva, G. Postolati, I. Tarcomnicu, D. Stambouli, A. F. Nicolescu, C. Deleanu, N. Usurelu	Buletin de Perinatologie, 1(86), 116-120 (2020)
23.	Challenges in clinical considerations for congenital disorders of glycosylation	D. Blanita, K. Boiciuc, E. Samohvalov, V. Sacara, N. Barbova, S. Hadjiu, V. Turea, A. Stamati, A. F. Nicolescu, C. Deleanu, D. Lefeber, E. Morava, N. Usurelu	Buletin de Perinatologie, 1(86), 18-22 (2020)
24.	Diagnosis characteristics of congenital disorders of glycosylation of 40 suspected patients from Moldova	K. Boiciuc, D. Blanita, E. Samohvalov, O. Tagadiuc, A. F. Nicolescu, C. Deleanu, R. Wevers, K. Huijben, D. Lefeber, N. Usurelu	Buletin de Perinatologie, 1(86), 23-27 (2020)
25.	Associative interactions between pullulan and negatively charged bovine serum albumin in physiological saline solutions	M. Bercea, I. A. Plugariu	Carbohydrate Polymers, 246, Article 116630/1-9 (2020)
26.	Structural modifications of polymers by pulsed electrical discharges in liquid	C. Miron, I. Sava, L. Sacarescu, T. Ishizaki, J. F. Kolb, C. P. Lungu	Carbon-Related Materials, C. Miron, P. Mele, S. Kaneko, T. Endo, Eds., Springer Nature Switzerland, 103-133 (2020)
27.	The influence of azobenzene content on azopolyimide capacity to form laser-induced surface relief gratings	I. Sava, I. Stoica	Carbon-Related Materials, C. Miron, P. Mele, S. Kaneko, T. Endo, Eds., Springer Nature Switzerland, 87-102 (2020)
28.	Carbonic anhydrases: Versatile and useful biocatalysts in chemistry and biochemistry	A. Angeli, F. Carta, C. T. Supuran	Catalysts, 10, Article 1008/1-11 (2020)
29.	A process for deriving high quality cellulose nanofibrils from water hyacinth invasive species	D. Sun, A. J. Onyianta, D. O'Rourke, G. Perrin, C. M. Popescu, L. H. Saw, Z. Cai, M. Dorris	Cellulose, 27, 3727-3740 (2020)
30.	High aspect ratio cellulose nanofibrils from macroalgae Laminaria hyperborea cellulose extract via a zero-waste low energy process	A. J. Onyianta, D. O' Rourke, D. Sun, C. M. Popescu, M. Dorris	Cellulose, 27, 7997-8010 (2020)
31.	Selenolesterase enzyme activity of carbonic anhydrases	A. Angeli, F. Carta, S. Donnini, A. Capperucci, M. Ferraroni, D. Tanini, C. T. Supuran	Chemical Communications, 56, 4444-4447 (2020)
32.	Multi-stimuli responsive free-standing films of DR1-grafted silicones	C. Racles, C. Ursu, M. Dascalu, M. Asandulesa, V. Tiron, A. Bele, C.	Chemical Engineering Journal, 401, 126087/1-14 (2020)

		Tugui, S. Teodoroff-Onesim	
33.	Microstructural and dynamical heterogeneities in ionic liquids	Y. L. Wang, B. Li, S. Sarman, F. Mocci, Z. Y. Lu, J. Yuan, A. Laaksonen, M. D. Fayer	Chemical Reviews, 120, 5798-5877 (2020)
34.	Antioxidant, cytotoxic and antimicrobial activity of chitosan preparations extracted from Ganoderma lucidum mushroom	S. Savin, O. Craciunescu, A. Oancea, D. Ilie, T. Ciucan, L. S. Antohi, A. Toma, A. Nicolescu, C. Deleanu, F. Oancea	Chemistry and Diversity, 17, e2000175/1-10 (2020)
35.	Synthesis and evaluation of biological activity of homodrimane sesquiterpenoids bearing 1,3,4-oxadiazole and 1,3,4-thiadiazole units	L. Lungu, A. Ciocarlan, C. Smigon, I. Ozer, S. Shova, I. Gutu, N. Vornicu, I. Mangalagiu, M. D'Ambrosio, A. Aricu	Chemistry of Heterocyclic Compounds, 56, 578-585 (2020)
36.	Novel platinum-porphyrin as sensing compound for efficient fluorescent and electrochemical detection of H2O2	E. Fagadar-Cosma, N. Plesu, A. Lascu, D. Anghel, M. Cazacu, C. Ianasi, G. Fagadar-Cosma, I. Fratilescu, C. Epuran	Chemosensors, 8, Article 29/1-15 (2020)
37.	Baltic Fucus vesiculosus as potential bio-sorbent for Zn removal: Mechanism insight	L. Branza, K. Geraki, C. Cojocaru, S. L. Holdt, M. Neamtu	Chemosphere, 238, Article 124652/1-11 (2020)
38.	Highly efficient and fast removal of colored pollutants from single and binary systems, using magnetic mesoporous silica	R. Nicola, S. G. Muntean, M. A. Nistor, A. M. Putz, L. Almasy, L. Sacarescu	Chemosphere, 261, Article 127737/1-14 (2020)
39.	The effect of phenyl substitutions on microstructures and dynamics of tetraalkylphosphonium bis(trifluoromethylsulfonyl)imide ionic liquids	Y. L. Wang, B. Li, A. Laaksonen, J. Yuan	ChemPhysChem, 21, 1202-1214 (2020)
40.	Chitosan-based drug delivery systems	C. Peptu, A. C. Humelnicu, R. Rotaru, M. E. Fortuna, X. Patras, M. Teodorescu, B. I. Tamba, V. Harabagiu	Chitin and Chitosan: Properties and Applications, L. A. M. van den Broek, C. G. Boeriu, Eds., Wiley, Hoboken, USA, 259-289 (2020)
41.	Chitin and chitosan for water purification	P. Samoila, A. C. Humelnicu, M. Ignat, C. Cojocaru, V. Harabagiu	Chitin and Chitosan: Properties and Applications, L. A. M. van den Broek, C. G. Boeriu, Eds., Wiley, Hoboken, USA, 429-460
42.	Wood surface modification - Classic and modern approaches in wood chemical treatment by esterification reactions	C. A. Teaca, F. Tanasa	Coatings, 10, Article 629/1-31 (2020)
43.	Green synthesis of Ag nanoparticles with uncommon behaviour towards NaBH4 in presence of Congo red using polyelectrolyte multilayers containing sodium carboxymethyl cellulose	C. A. Ghiorghita, E. S. Dragan, F. Bucatariu, D. Schwarz, C. Blegescu, M. Mihai	Colloids and Surfaces A: Physicochemical and Engineering Aspects, 585, Article 124157/1-9 (2020)

44.	Nanostructured polymer composites for selective heavy metal ion sorption	F. Bucatariu, D. Schwarz, M. Zaharia, C. Steinbach, C. A. Ghiorghita, S. Schwarz, M. Mihai	Colloids and Surfaces A: Physicochemical and Engineering Aspects, 603, Article 125211/1-10 (2020)
45.	Porous thiourea-grafted-chitosan hydrogels: Synthesis and sorption of toxic metal ions from contaminated waters	C. A. Ghiorghita, K. B. I. Borchert, A. L. Vasiliu, M. M. Zaharia, D. Schwarz, M. Mihai	Colloids and Surfaces A: Physicochemical and Engineering Aspects, 607, Article 125504/1-12 (2020)
46.	Materials for organic transistor applications	A. I. Barzic, R. F. Barzic	Composite Materials for Industry, Electronics and the Environment. Research and Applications, O. M. Mukbaniani, D. Balkose, H. Susanto, A. K. Haghi, Eds., Apple Academic Press, 121-152 (2020)
47.	Interfacial interactions and interfacial polarization in polyazomethine/MWCNTs nanocomposites	S. Bronnikov, S. Kostromin, M. Asandulesa, D. Pankin, A. Podshivalov	Composite Science and Technology, 190, Article 108049/1-9 (2020)
48.	Spin crossover in 2D iron(II) phthalazine cyanometallic complexes	V. M. Hiiuk, S. Shova, A. Rotaru, A. A. Golub, I. O. Fritsky, I. A. Guralskiy	Dalton Transactions, 49, 5302-5311 (2020)
49.	A theoretical mathematical model for assessing diclofenac release from chitosan-based formulations	M. M. Iftime, D. L. Dobreci, S. A. Irimiciuc, M. Agop, T. Petrescu, B. Doroftei	Drug Delivery, 27, 1125-1133 (2020)
50.	Phenothiazine based co-crystals with enhanced luminescence	L. Marin, A. Bejan, S. Shova	Dyes and Pigments, 175, Article 108164/1-9 (2020)
51.	Electrochemically active polyimides containing hydroxyl-functionalized triphenylmethane as molecular sensor for fluoride anion detection	A. P. Chiriac, I. Butnaru, M. D. Damaceanu	Electrochimica Acta, 353, Article 136602/1-14 (2020)
52.	Application of electrospun materials in bioinspired systems	A. Filimon, A. M. Dobos, O. Dumbrava, A. Popa	Electrospun Materials and their Allied Applications, Inammudin, R. Bodula, M. I. Ahamed, A. M. Asiri, Eds., Wiley-Scrivener Publishing LLC, 307-350 (2020)
53.	Extraction of lignin and therapeutic applications of lignin-derived compounds. A review	I. Spiridon	Environmental Chemistry Letters, 38, 771-785 (2020)
54.	Neutral lipophilic palladium(II) complexes and their applications in electrocatalytic hydrogen production and C-C coupling reactions	O. Cuzan-Munteanu, D. Sirbu, M. Giorgi, S. Shova, E. A. Gibson, M. Reglier, M. Orio, L. M. D. R. S. Martins, A. C. Benniston	European Journal of Inorganic Chemistry, (10), 813-822 (2020)
55.	Nanoscale coordination polymer of dimanganese(II) as infinite, flexible nanosheets with photoswitchable morphology	S. Shova, A. Vlad, M. Damoc, V. Tiron, M. Dascalu, G. Novitchi, C. Ursu, M. Cazacu	European Journal of Inorganic Chemistry, (21), 2043-2054 (2020)
56.	Role of the main and auxiliary ligands in the nuclearity of Cu-Ln complexes	J. P. Costes, M. J. Rodriguez Douton, S. Shova, L. Vendier	European Journal of Inorganic Chemistry, (4), 382-393 (2020)
57.	Direct and straight forward access to substituted alkyl selenols as novel carbonic anhydrase inhibitors	D. Tanini, A. Capperucci, M. Ferraroni, F. Carta, A. Angeli, C. T. Supuran	European Journal of Medicinal Chemistry, 185, Article 111811/1-6 (2020)

58.	Photoinduced properties of "T-type" polyimides with azobenzene or azopyridine moieties	K. Bujak, I. Sava, I. Stoica, V. Tiron, I. Topala, R. Weglowski, E. Schab-Balcerzak, J. Konieczkowska	European Polymer Journal, 126, Article 109563/1-11 (2020)
59.	Surface cationic functionalized nano-hydroxyapatite - Preparation, characterization, effect of coverage on properties and related applications	D. Timpu, L. Sacarescu, T. Vasiliu, M. V. Dinu, G. David	European Polymer Journal, 132, Article 109759 (2020)
60.	Poly(N-isopropylacrylamide-co-N-vinylpyrrolidone) thermoresponsive microspheres: The low drug loading ensures the pulsatile release mechanism	G. Fundueanu, M. Constantin, S. Bucatariu, P. Ascenzi	eXPRESS Polymer Letters, 14, 63-76 (2020)
61.	Treatments and modification to improve the reaction to fire of wood and wood based products - An overview	C. M. Popescu, A. Pfriem	Fire and Materials, 44, 100-111 (2020)
62.	How to detect possible pitfalls in ePC-SAFT modelling: Extension to ionic liquids	Y. Sun, Z. Zuo, A. Laaksonen, X. Lu, X. Ji	Fluid Phase Equilibria, 519, Article 112641/1-1 (2020)
63.	A model microalga for addressing air treatment in spacecrafts	G. Soreanu, I. Cretescu, M. Diaconu, M. Ignat, V. Harabagiu, C. Cojocaru, P. Samoila	From Biofiltration to Promising Options in Gaseous Fluxes Biotreatment. Recent Developments, New Trends, and Opportunities, G. Soreanu, E. Dumont, Eds., Elsevier, Amsterdam, 397-417 (2020)
64.	How molecular chiralities of bis(mandelato)borate anions affect their binding structures with alkali metal ions and microstructural properties in tetraalkylphosphonium ionic liquids	H. W. Pei, B. Li, A. Laaksonen, Y. L. Wang	Frontiers in Chemistry, 8, Article 65/1-15 (2020)
65.	Sonochemical production of nanoscaled crystalline cellulose using organic acids	E. Robles, N. Izaguirre, B. I. Dogaru, C. M. Popescu, I. Barandiaran, J. Labidi	Green Chemistry, 22, 4627-4639 (2020)
66.	Cellular response to synthetic polymers	M. Baican, E. Stoleru, C. Vasile	Handbook of Biomaterials Biocompatibility, M. Mozafari, Ed., Woodhead Publishing, Elsevier, 269-319 (2020)
67.	Structure-properties relationship of the polyurethanes that contain Schiff base in the main chain	S. Oprea, V. O. Potolinca, V. Oprea, L. I. Diaconu	High Performance Polymers, 32, 784-792 (2020)
68.	Equipments for treatment in high frequency plasma discharge	G. E. Ioanid	IEEE Transactions on Plasma Science, 48, 355-358
69.	Cold high-frequency plasma versus afterglow plasma in the preservation of mobile cultural heritage on paper substrate	D. E. Rusu, L. Stratulat, G. E. Ioanid, A. M. Vlad	IEEE Transactions on Plasma Science, 48, 410-413 (2020)
70.	Silanized citric acid capped magnetic nanoparticles and influence on chlorophylls	L. Popescu, L. Sacarescu, M. Grigoras, C. Morosanu, D. Creanga, D. Dorohoi, C. Stan	IFMBE Proceedings, 77(4th International Conference on Nanotechnologies and Biomedical Engineering, Sept. 18-21, 2019, Chisinau, Moldova

			- Proceedings of ICNBME-2019), 237-241 (2020)
71.	Hofmann-like frameworks Fe(2-methylpyrazine)n [M(CN)2]2 (M=Au, Ag): Spin-crossover defined by the precious metal	S. I. Shylin, O. I. Kukeriv, S. Shova, V. Ksenofontov, W. Tremel, I. A. Guralskiy	Inorganic Chemistry, 59, 6541-6549 (2020)
72.	Synthesis, crystal structure and magnetic properties of new copper(II) complexes based on 3-(2-pyridyl)-1,2,4-triazole	Y. P. Petrenko, D. M. Khomenko, R. O. Doroshchuk, S. Shova, G. Novitchi, K. Piasta, E. Gumienna-Kontecka, R. D. Lampeka	Inorganica Chimica Acta, 500, Article 119216/1-7 (2020)
73.	Synthesis and structure of zinc(II) and Co(II) coordination polymers involving the elongated 2',3',5',6' tetramethylterphenyl-4,4''-dicarboxylate ligand	V. Lozan, G. Makhloufi, V. Druta, P. Bourosh, V. C. Kravtsov, N. Marangoci, C. Heening, C. Janiak	Inorganica Chimica Acta, 506, Article 119500/1-9 (2020)
74.	Simple and dual cross-linked chitosan: millicapsules as a particulate support for cell culture	G. Fundueanu, M. Constantin, S. Bucatariu, A. Nicolescu, P. Ascenzi, L. G. Moise, L. Tudor, V. G. Trusca, A. V. Gafencu, D. Ficai, A. Ficai, E. Andronescu	International Journal of Biological Macromolecules, 143, 200-212 (2020)
75.	Structural characterization and mechanical properties of wet-processed fibreboard based on chemo-thermomechanical pulp, furanic resin and cellulose nanocrystals	C. M. Popescu, D. Jones, J. Schalnat, K. Segerholm, M. Henriksson, M. Westin	International Journal of Biological Macromolecules, 145, 586-593 (2020)
76.	Novel amphiphilic dextran esters with antimicrobial activity	M. C. Stanciu, D. Belei, E. Bicu, C. G. Tuchilus, M. Nichifor	International Journal of Biological Macromolecules, 150, 746-755 (2020)
77.	Synthesis and characterization of k-carrageenan bio-nanocomposite films reinforced with bentonite clay	B. I. Dogaru, B. Simionescu, M. C. Popescu	International Journal of Biological Macromolecules, 154, 9-17 (2020)
78.	New composites based on strach/Ecoflex/biomass wastes: Mechanical, thermal, morphological and antimicrobial properties	I. Spiridon, N. C. Anghel, R. N. Darie-Nita, A. Iwanczuk, R. G. Ursu, I. A. Spiridon	International Journal of Biological Macromolecules, 156, 1435-1444 (2020)
79.	Development of antioxidant and antimicrobial xanthan-based cryogels with tuned porous morphology and controlled swelling features	I. E. Raschip, N. Fifere, C. D. Varganici, M. V. Dinu	International Journal of Biological Macromolecules, 156, 608-620 (2020)
80.	New formulations based on salicyl-imine-chitosan hydrogels for prolonged drug release	M. M. Iftime, L. Mititelu-Tartau, L. Marin	International Journal of Biological Macromolecules, 160, 398-408 (2020)
81.	Blends of sodium deoxycholate-based poly(ester ether)urethane ionomer and hydroxypropylcellulose with mucosal adhesiveness	D. Macocinschi, D. Filip, B. I. Ciubotaru, R. P. Dumitriu, C. D. Varganici, M. F. Zaltariov	International Journal of Biological Macromolecules, 162, 1262-1275 (2020)
82.	Citryl-imine-PEG-ylated chitosan hydrogels - Promising materials for drug delivery applications	D. Ailincai, L. Mititelu-Tartau, L. Marin	International Journal of Biological Macromolecules, 162, 1323-1337 (2020)

83.	Phenothiazine-chitosan based eco-adsorbents: A special design for mercury removal and fast naked eye detection	A. Bejan, F. Doroftei, X. Cheng, L. Marin	International Journal of Biological Macromolecules, 162, 1839-1848 (2020)
84.	Composite cryo-beads of chitosan reinforced with natural zeolites with remarkable elasticity and switching on/off selectively for heavy metal ions	P. Saez, I. A. Dinu, A. Rodriguez, J. M. Gomez, M. M. Lazar, D. Rossini, M. V. Dinu	International Journal of Biological Macromolecules, 164, 2432-2449 (2020)
85.	Sulfonamide inhibition studies of an α-carbonic anhydrase from Schistosoma mansoni, a Platyhelminth parasite responsible for schistosomiasis	A. Angeli, M. Pinteala, S. S. Maier, B. C. Simionescu, A. Dadara, P. J. Skelly, C. T. Supuran	International Journal of Molecular Sciences, 21, Article 1842/1-8 (2020)
86.	Development of thiazolidinones as fungal carbonic anhydrase inhibitors	O. Guzel-Akdemir, S. Carradori, R. Grande, K. Demir-Yazici, A. Angeli, C. T. Supuran, A. Akdemir	International Journal of Molecular Sciences, 21, Article 2960/1-17 (2020)
87.	Novel indole-based hydrazones as potent inhibitors of the α-class carbonic anhydrase from pathogenic bacterium Vibrio cholerae	K. Demir-Yazici, O. Guzel-Akdemir, A. Angeli, C. T. Supuran, A. Akdemir	International Journal of Molecular Sciences, 21, Article 3131/1-12 (2020)
88.	Evaluation of thio- and seleno-acetamides bearing benzenesulfonnamide as inhibitor of carbonic anhydrases from different pathogenic bacteria	A. Angeli, M. Pinteala, S. S. Maier, B. C. Simionescu, A. Milaneschi, G. Abbas, S. del Prete, C. Capasso, A. Capperucci, D. Tanini, F. Carta, C. T. Supuran	International Journal of Molecular Sciences, 21, Article 598/1-8 (2020)
89.	Unltrasound assisted synthesis of nanosized oxide semiconductors/ordered mesoporous carbon architectures	M. Ignat, L. Sacarescu, A. Vasile	International Journal of Nanomaterials, Nanotechnology and Nanomedicine, 6(1), 1-12
90.	Study on thermal behavior of some biocompatible and biodegradable materials based in plasticized PLA, chitosan, and rosemary ethanolic extract	C. Vasile, N. Tudorachi, T. Zaharescu, R. N. Darie-Nita, C. N. Cheaburu-Yilmaz	International Journal of Polymer Science, vol. 2020, Article 4269792/1-18 (2020)
91.	Thermal behavior of aminotrimethoxysilanphosphonate functionalized onto styrene-divinylbenzene copolymer	A. Popa, L. Macarie, E. S. Dragan, V. Parvulescu, G. Ilia	International Journal of Polymer Analysis and Characterization, 25, 457-466 (2020)
92.	Comparative study on the characteristics of silicon elastomers used in dental impression techniques	I. Gradinaru, B. I. Ciubotaru, M. F. Zaltariov, M. Cazacu	IOP Conference Series: Materials Science and Engineering, 877, Article 012036/1-8 (2020)
93.	Photocatalytic and antimicrobial activity of electrospun ZnO:Ag nanostructures	P. Pascariu, C. Cojocaru, P. Samoila, A. Airinei, N. Olaru, D. Rusu, I. Rosca, M. Suchea	Journal of Alloys and Compounds, 834, Article 155144/1-9 (2020)
94.	Thermal behavior study and degradation mechanism by TG/MS/FTIR technique of some poly(aryl ether ether ketone)s	C. Hamciuc, G. Lisa, E. Hamciuc, E. L. Epure, N. Tudorachi	Journal of Analytical and Applied Pyrolysis, 150, Article 104877/1-9 (2020)

95.	Antibacterial porous xanthan-based films containing flavoring agents evaluated by near infrared chemical image technique	I. E. Raschip, O. M. Paduraru-Mocanu, L. E. Nita, M. V. Dinu	Journal of Applied Polymer Science, 137, Article 49111/1-12 (2020)
96.	Prospective life cycle assessment for sustainable synthesis design of organic/inorganic composites for water treatment	G. Barjoveanu, C. Teodosiu, F. Bucatariu, M. Mihai	Journal of Cleaner Production, 272, Article 122672/1- (2020)
97.	Nylon 612/TiO2 composites by anionic copolymerization-molding process: comparative evaluation of thermal and mechanical performance	E. Rusu	Journal of Composite Materials, 54, 345-362 (2020)
98.	The ENUF method-Ewald summation based on nonuniform fast Fourier transform: Implementation, parallelization and application	S. C. Yang, B. Li, Y. L. Zhu, A. Laaksonen, Y. L. Wang	Journal of Computational Chemistry, 41, 2316-2335 (2020)
99.	Composite materials based on chitosan/amidoximated starch beads and CaCO3	D. F. Loghin, C. A. Ghiorghita, O. M. Munteanu Blegescu, M. Mihai	Journal of Crystal Growth, 529, Article 125274/1-6 (2020)
100.	Physical properties and the ability to disperse into different polar solvents of the new polyurethane-cellulose composites	S. Oprea, V. O. Potolinca, V. Oprea	Journal of Elastomers and Plastics, 52, 548-572 (2020)
101.	Designing carbon reinforced PMMA composites for integrated electrodes as electrochemical detectors in PMMA microchips	A. Arvinte, A. M. Sesay, V. Virtanen	Journal of Electroanalytical Chemistry, 876, Article 114486/1-8 (2020)
102.	Cytotoxic substituted indolizines as new colchicine site tubulin polymerization inhibitors	M. C. Sardaru, A. M. Craciun, C. M. Al Matarneh, I. A. Sandu, R. M. Amarandi, L. Popovici, C. I. Ciobanu, D. Peptanariu, M. Pinteala, I. I. Mangalagiu, R. Danac	Journal of Enzyme Inhibition and Medicinal Chemistry, 35, 1581-1595 (2020)
103.	Vasorelaxant effects of Crataegus pentagyna: Links with arginase inhibition and phenolic profile	A. Bujor, A. Miron, S. V. Luca, K. Skalicka-Wozniak, M. Silion, A. Trifan, C. Girard, C. Demougeot, P. Totoson	Journal of Ethnopharmacology, 252, Article 112559/1-8 (2020)
104.	Removal of heavy metal ions from multicomponent aqueous solutions by eco-friendly and low-cost composite sorbents with anisotropic pores	D. Humelnicu, M. M. Lazar, M. Ignat, I. A. Dinu, E. S. Dragan, M. V. Dinu	Journal of Hazardous Materials, 381, Article 120980/1-10 (2020)
105.	Poly(vinyl alcohol boric acid)-diclofenac sodium salt drug delivery systems: Experimental and theoretical studies	D. Ailincai, A. M. Dorobantu, B. Dima, S. A. Irimiciuc, C. Lupascu, M. Agop, O. Orzan	Journal of Immunology Research, vol. 2020, Article 3124304/1-14 (2020)
106.	Thermosensitivity of poly-N-isopropylacrylamide with statistically introduced D,L-allylglycine betainic units	E. Tarabukina, A. Rozanova, G. Fundueanu, M. Constantin, V. Harabagiu, A. Filipov	Journal of Macromolecular Science, Part B Physics, 59, 100-120 (2020)

107.	Tellurides bearing sulfonamides as novel inhibitors of leishmanial carbonic anhydrase with potent antileishmanial activity	A. Angeli, N. Etxebeste-Mitxeltorena, C. Sanmartin, S. Espuelas, E. Moreno, A. Azqueta, S. Parkkila, F. Carta, C. T. Supuran	Journal of Medicinal Chemistry, 63, 4306-4314 (2020)
108.	1,3-Dipolar cycloaddition, HPLC enantioseparation, and docking studies of saccharin/isoxazole and saccharin/isoxazoline derivatives as selective carbonic anhydrase IX and XII inhibitors	M. D'Ascenzio, D. Secci, S. Carradori, S. Zara, P. Guglielmi, R. Cirilli, M. Pierini, G. Poli, T. Tuccinardi, A. Angeli, C. T. Supuran	Journal of Medicinal Chemistry, 63, 2470-2488 (2020)
109.	Polymer assisted ultrafiltration of A07 anionic dye from aqueous solutions: Experimental design, multivariate optimization, and molecular docking insights	C. Cojocaru, L. Clima	Journal of Membrane Science, 604, Article 118054/1-11 (2020)
110.	Molecular modeling study concerning the self-assembly capacity of some photosensitive amphiphilic polysiloxanes	E. L. Epure, T. Vasiliu, N. Hurduc, A. Neamtu	Journal of Molecular Liquids, 300, Article 112298/1-8 (2020)
111.	Synthesis, photophysical properties and solvatochromic analysis of some naphthalene-1,8-dicarboxylic acid derivatives	A. Nicolescu, A. Airinei, E. Georgescu, F. Georgescu, R. Tigoianu, F. Oancea, C. Deleanu	Journal of Molecular Liquids, 303, Article 112626/1-10 (2020)
112.	Nano-assembled oligosilane-pyrazoline structures and their optical properties	A. L. Chibac-Scutaru, C. Cojocaru, A. Coroaba, G. Roman, G. Sacarescu, M. Simionescu, L. Sacarescu	Journal of Molecular Liquids, 303, Article 112657/1-10 (2020)
113.	New approaches for the development of cellulose acetate/tetraethyl orthosilicate composite membranes: Rheological and microstructural analysis	A. M. Dobos, A. Filimon, A. Bargan, M. F. Zaltariov	Journal of Molecular Liquids, 309, Article 113129/1-8 (2020)
114.	Real-time monitoring the order-disorder conformational transition of xanthan gum	M. Bercea, S. Morariu	Journal of Molecular Liquids, 309, Article 113168/1-8 (2020)
115.	Synthesis and photophysical insights of new fused N-heterocyclic derivatives with isoquinoline skeleton	C. Gherasim, A. Airinei, R. Tigoianu, A. M. Craciun, R. Danac, A. Nicolescu, D. L. Isac, I. I. Mangalagiu	Journal of Molecular Liquids, 310, Articles 113196/1-9 (2020)
116.	Salen-type Schiff bases spaced by the highly flexible and hydrophobic tetramethyldisiloxane motif. Some synthetic, structural and behavioral particularities	M. Damoc, A. C. Stoica, A. M. Macsim, M. Dascalu, M. F. Zaltariov, M. Cazacu	Journal of Molecular Liquids, 316, Article 113852/1-11 (2020)
117.	From cyclohexanone to photosensitive polyester: Synthetic pathway, basic characterization and photo-/halochromic properties	M. Homocianu, D. Serbezeanu, A. M. Macsim, T. Vlad-Bubulac	Journal of Molecular Liquids, 316, Article 113888/1-9 (2020)
118.	Determination of the effectiveness of a combined thermal/chemical wood modification by the use of FT-IR spectroscopy and chemometric methods	C. M. Popescu, D. Jones, D. Krzisnik, M. Humar	Journal of Molecular Structure, 1200, Article 127133/1-9 (2020)

119.	2D IR correlation spectroscopy and chemometric methods in gastric cancer diagnosis	M. C. Popescu, R. Constantinescu, S. S. Padureanu	Journal of Molecular Structure, 1214, Article 128211/1-7 (2020)
120.	Photochromic properties of some azomaleimide derivatives and DFT quantum chemical study in thermal cis-trans isomerization pathways	D. L. Isac, A. Airinei, M. Homocianu, N. Fifere, C. Cojocaru, C. Hulubei	Journal of Photochemistry and Photobiology A: Chemistry, 390, Article 112300/1-8 (2020)
121.	Unusual ferrite induced photohydrolysis of dinitrophenols to nonaromatic and nontoxic derivatives	M. Zaharia, M. Mihai, T. Roman, G. Zbancioc, A. Pui, R. V. Gradinaru, C. Logigan, G. Drochioiu	Journal of Photochemistry and Photobiology A: Chemistry, 394, Article 112497/1-9 (2020)
122.	New fire-resistant epoxy thermosets: nonisothermal kinetic study and flammability behavior	C. Hamciuc, T. Vlad-Bubulac, D. Serbezeanu, I. D. Carja, E. Hamciuc, I. Anghel, V. Enciu, I. E. Sofran, G. Lisa	Journal of Polymer Engineering, 40, 21-29
123.	Synthesis and characterization of novel polyurethane elastomers that include curcumin with various crosslinked structures	S. Oprea, V. O. Potolinca, V. Oprea	Journal of Polymer Research, 27, Article 60/1-8 (2020)
124.	Trends in 3D printing processes for biomedical field: Opportunities and challenges	A. Ghilan, A. P. Chiriac, L. E. Nita, A. G. Rusu, I. Neamtu, V. M. Chiriac	Journal of Polymers and the Environment, 28, 1345-1367 (2020)
125.	Mesoporous magnetic nanocomposites: a promising adsorbent for the removal of dyes from aqueous solutions	R. Nicola, O. Costisor, S. G. Muntean, M. A. Nistor, A. M. Putz, C. Ianasi, R. Lazau, L. Almasy, L. Sacarescu	Journal of Porous Materials, 27, 413-428 (2020)
126.	Room temperature phase superposition as origin of enhanced functional properties in BaTiO3-based ceramics	N. Horchidan, L. Padurariu, C. E. Ciomaga, L. Curecheriu, M. Airimioaei, F. Doroftei, F. Tufescu, L. Mitoseriu	Journal of the European Ceramic Society, 40, 1258-1268 (2020)
127.	Cationic polyelectrolytes application for removal of the Novadim progress and Decis pesticide formulations from synthetic emulsions	L. Ghimici, D. Rossini, M. V. Dinu	Journal of Water Science and Engineering, 1(5), 1-6 (2020)
128.	Excellent protein immobilization and stability on heterogeneous C-TiO2 hybrid nanostructures: A single protein AFM study	Y. Dong, X. Ji, A. Laaksonen, W. Cao, H. He, X. Lu	Langmuir, 36, 9323-9332 (2020)
129.	Stimuli responsive scaffolds based on carboxymethyl starch and poly(2-dimethyl aminoethyl methacrylate) for antiinflammatory drug delivery	L. E. Nita, A. P. Chiriac, A. G. Rusu, A. Ghilan, R. P. Dumitriu, M. Bercea, N. Tudorachi	Macromolecular Bioscience, 20, Article 1900412/1-12 (2020)
130.	Morphological and electronic properties of poly(ethylene glycol)/ RAMEB polyrotaxane and polypyrole supramolecular networks	A. M. Resmerita, M. Asandulesa, A. Farcas	Macromolecular Chemistry and Physics, 221, Article 2000011/1-11 (2020)
131.	Carbon-based nanocomposites for EMI shielding: Recent advances	M. Suchea, I. V. Tudose, P. Pascariu, E. Koudoumas	Materials for Potential EMI Shielding Applications. Processing, Properties and Current Trends, J. Kuruvilla, W.

			Runcy, G. Gejo, Eds., Elsevier, Amsterdam, 201-212 (2020)
132.	One-pot synthesis of hierarchical magnetic porous γ-Fe2O3@NiFe2O4 composite with solid-phase morphology changes promoted by adsorption of anionic azo-dye	A. I. Borhan, D. Gherca, S. Cojocaru, N. Lupu, T. Roman, M. Zaharia, M. N. Palamaru, A. R. Iordan	Materials Research Bulletin, 122, Article 110664/1-11 (2020)
133.	Silicone elastomers filled with rare earth oxides	M. Iacob, A. Airinei, M. Asandulesa, M. Dascalu, N. Tudorachi, L. Hernandez, M. Cazacu	Materials Research Express, 7, Article 035703/1-11 (2020)
134.	Polyvinyl alcohol boric acid. A promising tool for the development of sustained release drug delivery systems	D. Ailincai, G. Gavril, L. Marin	Materials Science and Engineering C: Materials for Biological Applications, 107, Article 110316/1-11 (2020)
135.	Smart drug delivery system activated by specific biomolecules	M. Constantin, S. Bucatariu, P. Ascenzi, M. Butnaru, G. Fundueanu	Materials Science and Engineering C: Materials for Biological Applications, 108, Article 110466/1-12 (2020)
136.	Versatile poly(vinyl alcohol)/clay physical hydrogels with tailorable structure as potential candidates for wound healing applications	S. Morariu, M. Bercea, L. M. Gradinaru, I. Rosca, M. Avadanei	Materials Science and Engineering C: Materials for Biological Applications, 109, Article 110395/1-11 (2020)
137.	Single-walled carbon nanotubes-G-quadruple hydrogel nanocomposite matrixes for all support applications	E. L. Ursu, G. Gavril, S. Morariu, M. Pinteala, M. Barboiu, A. Rotaru	Materials Science and Engineering C: Materials for Biological Applications, 111, Article 110800/1-9 (2020)
138.	Water soluble PEGylated phenothiazines as valuable building blocks for biomaterials	S. Cibotaru, A. I. Sandu, D. Belei, L. Marin	Materials Science and Engineering C: Materials for Biological Applications, 116, Article 111216/1-11 (2020)
139.	Synthesis and characterization of novel poly(urethane-urea) elastomers based on 1,3-propanediol bis(4-aminobenzoate) as chain extender	S. Oprea, V. O. Potolinca, V. Oprea	Materials Today Communications, 22, Article 100860/1-9 (2020)
140.	Effect of cellulose nanocrystals nanofiller on the structure and sorption properties of carboxymethyl cellulose-glycerol cellulose nanocrystals nanocomposite systems	M. C. Popescu, B. I. Dogaru, C. M. Popescu	Materials, 13, Article 2900/1-15 (2020)
141.	Smart supra- and macromolecular tools for biomedical applications	M. Pinteala, M. J. M. Abadie, R. D. Rusu	Materials, 13, Article 3343/1-29 (2020)
142.	Comparative study of the influence of noble metal nanoparticles (Ag, Au, Pd) on the photocatalytic activity of ZnO NPs embedded in renewable castor oil polymer matrices	A. L. Chibac-Scutaru, V. Podasca, D. Timpu, V. Melinte	Materials, 13, Article 3468/1-18 (2020)
143.	Preparation and characterization of electrospun collagen based composites for biomedical applications	M. Drobota, L. M. Gradinaru, S. Vlad, A. Bargan, M. Butnaru, M. Angheloiu, M. Aflori	Materials, 13, Article 3961/1-18 (2020)

144.	2,4,6-Tris(4-iodophenyl)-1,3,5-trimethylbenzene	D. Bejan, N. L. Marangoci, A. Rotaru, A. F. Trandabat, L. G. Bahrin	Molbank, vol. 2020, Article M1121/1-4 (2020)
145.	Quantum-chemical simulation and experimental study of some magnetic nanoparticles stabilized in fluid suspensions by using organic coating	C. Morosanu, L. Popescu, L. Sacarescu, D. O. Dorohoi, L. A. Oprica, D. Creanga	Molecular Crystals and Liquid Crystals, 698, 38-45 (2020)
146.	Two phase photochemical synthesis of silver nanoparticles and their impact on the chlorophylls	D. Babusca, L. Popescu, L. Sacarescu, D. O. Dorohoi, D. Creanga, L. A. Oprica	Molecular Crystals and Liquid Crystals, 698, 56-64 (2020)
147.	Contribution of crosslinker and silica morphology on Cr(VI) sorption performances of organic anion exchangers embedded into silica pores	E. S. Dragan, D. Humelnicu	Molecules, 25, Article 1249/1-19 (2020)
148.	New developments in medical applications of hybrid hydrogels containing natural polymers	C. Vasile, D. Pamfil, E. Stoleru, M. Baican	Molecules, 25, Article 1539/1-68 (2020)
149.	Crystal structure of a tetrametric type II β-carbonic anhydrase from the patogenic bacterium Burkholderia pseudomallei	A. Angeli, M. Ferraroni, M. Pinteala, S. S. Maier, B. C. Simionescu, F. Carta, S. del Preti, C. Capasso, C. T. Supuran	Molecules, 25, Article 2269/1-9 (2020)
150.	A comparative study on Cu2+, Zn2+, Ni2+, Fe3+ and Cr3+ metal ions removal from industrial wastewaters by chitosan-based composite cryogels	D. Humelnicu, E. S. Dragan, M. Ignat, M. V. Dinu	Molecules, 25, Article 2664/1-18 (2020)
151.	New microporous lanthanide organic frameworks. Synthesis, structure, luminescence, sorption and catalytic acylation of 2-naphthol	D. Bejan, L. G. Bahrin, S. Shova, N. L. Marangoci, U. Kokcam-Demir, V. Lozan, C. Janiak	Molecules, 25, Article 3055/1-15 (2020)
152.	SiO2-PVA-Fe(acac)3 hybrid based superparamagnetic nanocomposites for nanomedicine: Morpho-textural evaluation and in vitro cytotoxicity assay	A. M. Putz, C. Ianasi, Z. Dudas, D. Coricovac, C. (Farcas) Watz, A. Len, L. Almasy, L. Sacarescu, C. Dehelean	Molecules, 25, Article 653/1-19 (2020)
153.	New electrospun ZnO: MoO_3 nanostructures: Preparation, characterization and photocatalytic performance	P. Pascariu, M. Homocianu, N. Olaru, A. Airinei, O. Ionescu	Nanomaterials, 10, Article 1476/1-18 (2020)
154.	Preparation and evaluation of nanofibrous hydroxypropyl cellulose and β-cyclodextrin polyurethane composite mats	L. M. Gradinaru, M. Barbalata-Mandru, M. Drobota, M. Aflori, M. Spiridon, G. Gradisteanu Parcalabioru, C. Bleotu, M. Butnaru, S. Vlad	Nanomaterials, 10, Article 754/1-20 (2020)
155.	Development of porous titania structure with improved photocatalytic activity: Response surface modeling and multi-objective optimization	E. Mahu, M. Ignat, C. Cojocaru, P. Samoila, C. Coromelci, I. Asaftei, V. Harabagiu	Nanomaterials, 10, Article 998/1-15 (2020)

156.	Ionic liquids for enhanced enzymatic saccharification of cellulose-based materials	C. A. Teaca, C. M. Stanciu, F. Tanasa, M. Nechifor	Nanotechnology-Based Industrial Applications of Ionic Liquids, Inamuddin, A. M. Asiri, Eds., Springer Nature Switzerland, 113-135 (2020)
157.	Solvent effects on non-linear optical properties (NLO) and intramolecular charge transfer (ICT) characteristics of disperse red 19 dye	M. Homocianu, A. Airinei	Optik, 202, Article 163606/1-6 (2020)
158.	New insights into human hair: SAXS, SEM, TEM and EDX for alopecia areata investigations	A. Coroaba, A. E. Chiriac, L. Sacarescu, T. Pinteala, B. Minea, S. A. Ibanescu, M. Pertea, A. Moraru, I. Esanu, S. S. Maier, A. Chiriac, M. Pinteala	PeerJ, 8, e8376/1-22 (2020)
159.	New trends in biobased aerogels	L. E. Nita, A. Ghilan, A. G. Rusu, I. Neamtu, A. P. Chiriac	Pharmaceutics, 12, Article 449/1-31 (2020)
160.	Nano-polyplexes mediated transfection of Runcx2-shRNA mitigates the osteodifferentiation of human vascular interstitial cells	G. Voicu, D. Rebleanu, C. A. Constantinescu, E. V. Fuior, L. Ciortan, I. Droc, C. M. Uritu, M. Pinteala, I. Manduteanu, M. Simionescu, M. Calin	Pharmaceutics, 12, Article 507/1-18 (2020)
161.	Synthesis, structural characterization and properties evaluation of two new zwitterionic siloxane compounds	A. Bargan, M. Cazacu, M. Dascalu, A. M. Macsim, A. Soroceanu, I. F. Macsim	Polyhedron, 179, Article 114356/1-19 (2020)
162.	Silicone dielectric elastomers optimized by crosslinking pattern - a simple approach to high-performance actuators	C. Tugui, G. T. Stiubianu, M. S. Serbulea, M. Cazacu	Polymer Chemistry, 11, 3271-3284 (2020)
163.	Modified hemp fibers intended for fiber-reinforced polymer composites used in structural applications - A review. I. Methods of modification	F. Tanasa, M. Zanoaga, C. A. Teaca, M. Nechifor, A. Shahzad	Polymer Composites, 41, 5-31 (2020)
164.	Polyimide films tailored by UV irradiation: Surface evaluation and structure - properties relationship	R. D. Rusu, C. P. Constantin, M. Drobota, L. M. Gradinariu, M. Butnaru, M. Pislaru	Polymer Degradation and Stability, 177, Article 109182/1-13 (2020)
165.	Viscoelastic behaviour of self-assembling polyurethane and poly(vinyl alcohol)	M. Bercea, L. M. Gradinaru, I. A. Plugariu, M. Mandru, D. L. Tigau	Polymer International, 69, 149-155 (2020)
166.	Electrospun polymer-inorganic nanostructured materials and their applications	M. Homocianu, P. Pascariu	Polymer Reviews, 60, 493-541 (2020)
167.	Prediction of polyurethane behaviour via time-temperature superposition: Meanings and limitations	D. Ionita, M. Cristea, C. Gaina	Polymer Testing, 83, Article 106340/1-9 (2020)
168.	Interlayer dielectrics based on copolyimides containing non-coplanar alicyclic units for multilevel high-speed electronics	A. I. Barzic, C. Hulubei, M. Asandulesa, G. Lisa, D. Popovici, I. Stoica, A. Nicolescu, R. M. Albu	Polymer Testing, 90, Article 106704/1-11 (2020)
169.	Preparation and biomimetic composites of hydroxyapatite and	M. Socka, A. Michalski, I. M. Pelin, A. Pawlak, F.	Polymer, 186, Article 122078/1-10 (2020)

	star-shaped poly(2,2-dimethyl trimethylene carbonate)s terminated with carboxyl end-groups	Tanasa, T. Biela, M. Basko	
170.	Exploring the impact of triphenylmethane incorporation on physical properties of polyimides with emphasis on optical and halochromic behaviour	I. Butnaru, I. Sava, M. D. Damaceanu	Polymer, 200, Article 122621/1-13 (2020)
171.	Relaxation processes in a polymer composite for bulk heterojunction: A dielectric spectroscopy study	M. Asandulesa, S. Kostromin, A. Podshivalov, A. Tameev, S. Bronnikov	Polymer, 203, Article 122785/1-10 (2020)
172.	Chitosan-sulfated titania composite membranes with potential applications in fuel cell: Influence of crosslinker nature	A. C. Humelnicu, P. Samoila, M. Asandulesa, C. Cojocaru, A. Bele, A. T. Marinoiu, A. Sacca, V. Harabagiu	Polymers, 12, Article 1125/1-18 (2020)
173.	Development and performance of bioactive compounds-loaded cellulose/collagen/polyurethane materials	I. Spiridon, N. Anghel, M. V. Dinu, S. Vlad, A. Bele, B. I. Ciubotaru, L. Verestiuc, D. Pamfil	Polymers, 12, Article 1191/1-18 (2020)
174.	A theoretical multifunctional model for assessing urea release from chitosan based formulations	M. M. Iftime, S. A. Irimiciuc, M. Agop, M. Angheloiu, L. Ochiuz, D. Vasincu	Polymers, 12, Article 1264/1-13 (2020)
175.	Design and preparation of new multifunctional hydrogels based on chitosan/acrylic polymers for drug delivery and wound dressing applications	I. A. Duceac, L. Verestiuc, C. D. Dimitriu, V. Maier, S. Coseri	Polymers, 12, Article 1473/1-20 (2020)
176.	Environmental degradation of plastic composites with natural fillers - A review	M. Brebu	Polymers, 12, Article 166/1-22 (2020)
177.	Vegetable additives in food packaging polymeric materials	S. B. Munteanu, C. Vasile	Polymers, 12, Article 28/1-26 (2020)
178.	Influence of the chitosan and rosemary extract on fungal biodegradation of some plasticized PLA-based materials	E. Stoleru, C. Vasile, L. Oprica, O. Yilmaz	Polymers, 12, Article 469/1-23 (2020)
179.	Cellulose-based hydrogels: design, structure-related properties and medical applications	D. Rusu, D. E. Ciolacu	Pulp Production and Processing. High-Tech Applications, V. I. Popa, Ed., 2nd Edition, De Gruyter, Berlin, 287-316 (2020)
180.	Nanocelluloses: preparations, properties, and applications in medicine	D. Ciolacu, V. I. Popa	Pulp Production and Processing. High-Tech Applications, V. I. Popa, Ed., 2nd Edition, De Gruyter, Berlin, 317-340 (2020)
181.	Ionic derivatives of cellulose: new approaches in synthesis, characterization, and their applications	D. M. Suflet	Pulp Production and Processing. High-Tech Applications, V. I. Popa, Ed., 2nd Edition, De Gruyter, Berlin, 341-374 (2020)
182.	Advances in porous chitosan-based composite hydrogels: Synthesis and applications	E. S. Dragan, M. V. Dinu	Reactive and Functional Polymers, 146, Article 104372/1-38 (2020)

183.	A review of the use of pullulan derivatives in wastewater purification	L. Ghimici, M. Constantin	Reactive and Functional Polymers, 149, Article 104510/1-13 (2020)
184.	Carbon recycling - An immense resource and key to a smart climate engineering: A survey of technologies, cost and impurity impact	H. Wang, Y. Liu, A. Laaksonen, A. Krook-Riekkola, Z. Yang, X. Lu, X. Ji	Renewable and Sustainable Energy Reviews, 121, Article 110010/1-21 (2020)
185.	New coloured coatings to enhance silica sand absorbance for direct particle solar receiver applications	A. Gimeno-Furio, L. Hernandez, R. Martinez-Cuenca, R. Mondragon, A. Vela, L. Cabedo, C. Barreneche, M. Iacob	Renewable Energy, 152, 1-8 (2020)
186.	Design and synthesis of novel ditopic ligands with a pyrazole ring in the central unit	B. I. Bratanovici, A. Nicolescu, S. Shova, I. A. Dascalu, R. Ardeleanu, V. Lozan, G. Roman	Research on Chemical Intermediates, 46, 1587-1611 (2020)
187.	Introducing chirality in halogenated 3-arylsydnones and their corresponding 1-arylpyrazoles obtained by 1,3 dipolar cycloaddition	M. M. Popa, S. Shova, M. Hrubaru, L. Barbu, C. Draghici, F. Dumitrascu, D. E. Dumitrescu	RSC Advances, 10, 15656-15664 (2020)
188.	Effect of TAT-DOX-PEG irradiated gold nanoparticles conjugates on human osteosarcoma cells	R. V. Lupusoru, D. A. Pricop, C. M. Uritu, A. Arvinte, A. Coroaba, I. Esanu, M. F. Zaltariov, M. Silion, C. Stefanescu, M. Pinteala	Scientific Reports, 10, Article 6591/1-14 (2020)
189.	NHF-derived carbon dots: prevalidation approach in breast cancer treatment	C. E. Tiron, G. Luta, M. Butura, F. Zugun-Eloae, C. C. Stan, A. Coroaba, E. L. Ursu, G. D. Stanciu, A. Tiron	Scientific Reports, 10, Article 12662/1-10 (2020)
190.	Organosilicons of different molecular sizes and chemical structure as consolidants for waterlogged archaelogical wood - a new reversible and retreatable method	M. Broda, I. Dabek, A. Dutkiewicz, M. Dutkiewicz, C. M. Popescu, B. Mazela, H. Maciejewski	Scientific Reports, 10, Article 2188/1-13 (2020)
191.	Insights into molecular engineering of membranes based on fluorinated polyimide-polyamide miscible blends which do not obey the trade-off rule	I. Butnaru, C. P. Constantin, M. Asandulesa, A. Wolinska-Grabczyk, A. Jankowski, U. Szeluga, M. D. Damaceanu	Separation and Purification Technology, 233, Article 116031/1-13 (2020)
192.	Surface modified cellulose acetate membranes for the reactive retention of tetracycline	A. M. Pandele, H. Iovu, C. Orbeci, C. Tuncel, F. Miculescu, A. Nicolescu, C. Deleanu, S. I. Voicu	Separation and Purification Technology, 249, Article 117145/1-9 (2020)
193.	V-shape plasma generated by excimer laser ablation of graphite in argon: Spectroscopic investigation	C. Ursu, P. Nica, B. G. Rusu, C. Focsa	Spectrochimica Acta Part B: Atomic Spectroscopy, 163, Article 105743/1-10 (2020)
194.	Lignocellulose waste materials for industrial water purification	F. Tanasa, C. A. Teaca, M. Nechifor	Sustainable Green Chemical Processes and their Allied Applications, Inamuddin, A.

			Asiri, Eds., Springer Nature Switzerland AG, 381-407 (2020)
195.	New heterocyclic conjugated azomethines containing triphenylamine units with optical and electrochemical responses towards the acid environment	A. E. Bejan, M. D. Damaceanu	Synthetic Metals, 268, Article 116498/1-14 (2020)
196.	On the interactions of the receptor-binding domain of SARS-Cov-1 and SARS-Cov-2 spike proteins with monoclonal antibodies and the receptor ACE2	C. Correa Giron, A. Laaksonen, F. L. Barrosso da Silva	Virus Research, 285, Article 1988021/1-13 (2020)
197.	Adsorption of Cu(II) ions on adsorbent materials obtained from marine red algae Callithamnion corymbosum sp.	A. A. Lucaci, D. Bulgariu, M. C. Popescu, L. Bulgariu	Water, 12, Article 372/1-16 (2020)
198.	On the development of chitosan graft-poly(N-isopropylacrylamide) by RAFT polymerization technique	C. N. Cheaburu-Yilmaz	Cellulose Chemistry and Technology, 54, 1-10 (2020)
199.	Adsorptive materials based on cellulose: Preparation, characterization and application for copper ions retention	I. Nica, C. Zaharia, R. I. Baron, S. Coseri, D. Suteu	Cellulose Chemistry and Technology, 54, 579-590 (2020)
200.	Fixed-bed-column studies for methylene blue removal by cellulose cellets	I. Nica, G. Biliuta, C. Zaharia, L. Rusu, S. Coseri, D. Suteu	Environmental Engineering and Management Journal, 19, 269-279 (2020)
201.	An experimental study on mechanical and thermal behavior of acrylonitrile butadiene styrene enhanced with fire retardants	T. M. Simionescu, I. Spiridon, C. D. Varganici, R. N. Darie-Nita, A. A. Minea	Environmental Engineering and Management Journal, 19, 773-783 (2020)
202.	A follow-up study on the occupational hand eczema and skin damage risk in healthcare providers from Romania in time of COVID-19	A. E. Chiriac, A. Coroaba, A. Chiriac, M. Pinteala, L. Profire, B. Profire, D. Azoicai	Farmacia, 68, 606-611 (2020)
203.	UV light-shielding properties of TiO2-based materials coated flax samples	L. Chirila, D. V. Cosma, A. Urda, A. S. Porav, A. Turza, D. Timpu, A., O. Mateescu	Journal of Optoelectronics and Advanced Materials, 22, 62-66 (2020)
204.	Photosensitive formulation for additive manufacturing-3D printing	M. J. M. Abadie, I. Manole, C. Fetecau	Materiale Plastice, 57(1), 141-152 (2020)
205.	Optical dispersion characteristics of polyvinyl alcohol reinforced with a nanoceramic filler	A. I. Barzic, M. Soroceanu, R. Rotaru, V. Harabagiu, R. C. Ciobanu	Materiale Plastice, 57(1), 1-7 (2020)
206.	Surface processing of polyethylene terephthalate for orientation of nematics in display devices	A. I. Barzic, R. M. Albu, C. D. Nechifor, M. Postolache, C. Logigan, D. O. Dorohoi	Materiale Plastice, 57(2), 1-7 (2020)
207.	Ultrasonication - A potential method toward chitosan hydrogels	M. M. Iftimie, M. Angheloiu	Materiale Plastice, 57(2), 67-77 (2020)
208.	Development and morphological characterization of novel polyimide/metal nanohybrid materials	I. Stoica, I. Sava, G. Bulai, G. Stoian, M. Strat, S. Gurlui, B. Oprisan	Materiale Plastice, 57(2), 94-103 (2020)
209.	Exocyclic enamines of pyrrolo[1,2-a]quinoxalines generated by 1,3-dipolar cycloaddition reactions of	A. Nicolescu, E. Georgescu, F. Dumitrascu, F.	Revista de Chimie, 71(3), 197-209 (2020)

	benzimidazolium ylides to activated alkynes	Georgescu, F. Teodorescu, C. Draghici, M. R. Caira, C. Deleanu	
210.	A severe neonatal argininosuccinic aciduria case investigated by 1H NMR spectroscopy	R. Vulturar, A. Chis, M. Baizat, A. Cozma, R. Suharoschi, A. Nicolescu, C. Deleanu	Revista de Chimie, 71(3), 210-218 (2020)
211.	Dynamic rheological behavior of chitosan/collagen mixtures	M. Danu, B. Simionescu, C. Ibanescu, S. A. Ibanescu	Revista de Chimie, 71(5), 193-200 (2020)
212.	Relation between light scattering and urinary sediment	A. G. Grigoras, V. C. Grigoras, A. I. Prisacariu, I. E. Frumuzache	Revista Romana de Laborator Medical, 15(51), 26-31 (2020)
213.	Volatolomic analysis applied to farm animals. II. Volatile compounds emitted from the faeces of cattle	M. Brebu, K. Beleno, R. Ionescu, D. Turcu, H. Dinu, H. Caciandone, A. A. Enache	Revista Romana de Medicina Veterinara, 30(1), 34-38 (2020)
214.	Volatolomic analysis applied to farm animals. III. Volatile compounds emitted through skin of cattle	M. Brebu, L. Mogollon, R. Ionescu, D. Turcu, R. Grigorescu, A. Iordache, A. A. Enache	Revista Romana de Medicina Veterinara, 30(2), 29-32 (2020)
215.	Microwave-assisted multicomponent synthesis of benzo[f]pyrrolo[1,2-a]quinoline derivatives	E. Georgescu, F. Georgescu, F. Dumitrascu, C. Draghici, A. Nicolescu, D. Marinescu, C. Deleanu	Revue Roumaine de Chimie, 65, 97-102 (2020)
216.	Biosenzori fotosintetici - Indicatori ai procesului de poluare a mediului inconjurator	C. A. Teaca	Ed. PIM, Iasi, 257 p (2020)