

Lista lucrari 2019

1. Biopolymer nanocomposites - From basic concepts to nanotechnologies M. Aflori Advances in Nanostructured Composites, vol 1: Carbon Nanotube and Graphene Composites, M. Aliofkhazraei, Ed., Taylor and Francis, Boca Raton, FL., 97-119 (2019)
2. Preparation of La doped ZnO ceramic nanostructures by electrospinning-calcination method: Effect of La³⁺ doping on optical and photocatalytic properties P. Pascariu, M. Homocianu, C. Cojocaru, P. Samoila, A. Airinei, M. Sucheana Applied Surface Science, 476, 16-27 (2019)
3. Study of the effect of some surface phenomena on the properties of citrate capped cobalt doped ferrites E. Puscasu, L. Sacarescu, L. Popescu-Lipan, V. Nica, M. Grigoras, A. Domocos, N. Lupu, D. Creanga Applied Surface Science, 483, 1182-1191 (2019)
4. Porous polymer/inorganic composite matrices as efficient dessicants for air dehumidification M. Ignat, P. Samoila, C. Cojocaru, G. Soreanu, I. Cretescu, V. Harabagiu Applied Surface Science, 487, 1189-1197 (2019)
5. Exploring isoxazoles and pyrrolidinones decorated with the 4,6-dimethoxy-1,3,5-triazine unit as human farnesyltransferase inhibitors L. Lucescu, A. Ghinet, S. Shova, R. Magnez, X. Thuru, A. Farce, B. Rigo, D. Belei, J. Dubois, E. Bicu Archiv der Pharmazie, 352, Article 1800227 (2019)
6. Determination of the small amount of proteins interacting with TiO₂ nanotubes by AFM-measurement Y. Dong, X. Ji, A. Laaksonen, W. Cao, R. An, L. Lu, X. Lu Biomaterials, 192, 368-376 (2019)
7. Understanding the structure and dynamics of peptides and proteins through the lens of network science M. Fossepre, L. Leherte, A. Laaksonen, D. P. Vercauteren Biomolecular Simulations in Structure-based Drug Discovery, F. L. Gervasio, V. Spiwok, Eds., Wiley-VCH, 105-161 (2019)
8. Natural bio-based products for wood coating and protection against degradation: A review C. A. Teaca, D. Rosu, F. Mustata, T. Rusu, L. Rosu, I. Rosca, C. D. Varganici BioResources, 14, 4873-4901 (2019)
9. Biomaterials of PVA and PVP in medical and pharmaceutical applications: Perspectives and challenges M. Teodorescu, M. Bercea, S. Morariu Biotechnology Advances, 37, 109-131 (2019)
10. Self-healing hydrogels of oxidized pullulan and poly(vinyl alcohol) M. Bercea, G. Biliuta, M. Avadanei, R. I. Baron, M. Butnaru, S. Coseri Carbohydrate Polymers, 206, 210-219 (2019)
11. Development of chitosan-poly(ethyleneimine) based double network cryogels and their application as superadsorbants for phosphate E. S. Dragan, D. Humelnicu, M. V. Dinu Carbohydrate Polymers, 210, 17-25 (2019)
12. Chitosan-based polyelectrolyte complex hydrogels for biomedical applications S. Vasiliu, S. Racovita, M. Popa, L. Ochiuz, C. A. Peptu Cellulose-based Superabsorbent Hydrogels, I. H. Mondall, Ed., Springer, 1695-1725 (2019)

- | | | | |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 13. | Structure-property relationships in cellulose-based hydrogels | D. E. Ciolacu | Cellulose-based Superabsorbent Hydrogels, I. H. Mondall, Ed., Springer, 65-95 (2019) |
| 14. | ZnO-based ceramic nanofibers: Preparation, properties and applications | P. Pascariu, M. Homocianu | Ceramics International, 45, 11158-11173 (2019) |
| 15. | Room temperature hysteretic spin crossover in a new cyanoheterometallic framework | V. M. Hiiuk, S. Shova, A. Rotaru, V. Ksenofontov, I. O. Fritsky, I. A. Gural'skiy | Chemical Communications, 55, 3359-3362 (2019) |
| 16. | Preparation and characterization of stacked planar actuators | C. Tugui, M. S. Serbulea, M. Cazacu | Chemical Engineering Journal, 364, 217-225 (2019) |
| 17. | TiO ₂ -based photopolymerized hybrid catalysts with visible light catalytic activity induced by in situ generated Ag/Au NPs | V. Melinte, T. Buruiana, I. Rosca, A. L. Chibac | Chemistry Select, 4, 5138-5149 (2019) |
| 18. | Adsorption of anionic dyes on a cationic amphiphilic dextran hydrogel: equilibrium, kinetics and thermodynamic studies | M. C. Stanciu, M. Nichifor | Colloid and Polymer Science, 297, 45-57 (2019) |
| 19. | Cellulose: A ubiquitous platform for ecofriendly metal nanoparticles preparation | G. Biliuta, S. Coseri | Coordination Chemistry Reviews, 383, 155-173 (2019) |
| 20. | Dinuclear manganese(III) complexes with bioinspired coordination and variable linkers showing weak exchange effects: a synthetic, structural, spectroscopic and computation study | S. Shova, A. Vlad, M. Cazacu, J. Krzystek, A. Ozarowski, M. Malcek, L. Bucinsky, P. Rapta, J. Cano, J. Telser, V. B. Arion | Dalton Transactions, 48, 5909-5922 (2019) |
| 21. | Aggregation of [Ln(III) 12] clusters by the dianion of 3-formylsalicylic acid. Synthesis, crystal structures, magnetic and luminescence properties | A. S. Dinca, A. Mindru, D. Dragancea, C. Tiseanu, S. Shova, S. Cornia, L. M. Carrella, E. Rentschler, M. Affronte, M. Andruh | Dalton Transactions, 48, 1700-1708 (2019) |
| 22. | Slow relaxation in a {Tb ₂ Ba (α - fur) ₈ } _n polymer with L=Tb(III) non-Kramers ions | E. Bartolome, A. Arauzo, J. Luzon, S. Melnic, S. Shova, D. Prodius, J. Bartolome, A. Amann, M. Nallaiyan, S. Spagna | Dalton Transactions, 48, 5022-5034 (2019) |
| 23. | In situ generation of Ph ₃ PO in cyanido-bridged heterometallic {Fe ^{III} Ln ^{III} } ₂ molecular squares (Ln=Eu, Sm) | M. G. Alexandru, D. Visinescu, B. Braun-Cula, S. Shova, F. Lloret, M. Julve | Dalton Transactions, 48, 7532-7536 (2019) |
| 24. | A regenerable microporous adsorbent based on microcrystalline cellulose for organic pollutants adsorption | D. Suteu, G. Biliuta, L. Rusu, S. Coseri, C. Vial, I. Nica (Nebunu) | Desalination and Water Treatment, 146, 176-187 (2019) |
| 25. | Ortho-catenation and trifluoromethyl grafting as driving forces in electro-optical properties modulation of ethanol soluble triphenylamide-based polyimides | C. P. Constantin, M. D. Damaceanu, M. Bruma, R. S. Begunov | Dyes and Pigments, 163, 126-137 (2019) |
| 26. | Generalization of the anthocyanins kinetics and thermodynamics multistate to 2.6-bis(2-hydroxybenzylidene)cyclohexanone | A. Alejo-Armijo, A. J. Moro, A. J. Parola, J. C. Lima, F. Pina, J. L. Corici, S. Shova, L. Csech | Dyes and Pigments, 163, 573-588 (2019) |

- s
27. Heteroatom-mediated performance of dye-sensitized solar cells based on T-shaped molecules
M. D. Damaceanu, C. P. Constantin, A. E. Bejan, M. Mihaila, M. Kusko, C. Diaconu, I. Mihalache, R. Pascu
Dyes and Pigments, 166, 15-31 (2019)
 28. Performances of *Pichia kudriavzevii* in decolorization, biodegradation, and detoxification of C.I. Basic Blue 41 under optimized cultural conditions
C. M. Rosu, G. Voichita, M. Mihasan, M. Avadanei, C. T. Mihai, D. Gherghel
Environmental Science and Pollution Research, 26, 431-445 (2019)
 29. Cucurbit[7]uril-threaded poly(3,4-ethylenedioxythiophene): A novel processable conjugated polyrotaxane
A. Farcas, K. I. Assaf, A. M. Resmerita, L. Sacarescu, M. Asandulesa, P. H. Aubert, W. M. Nau
European Journal of Organic Chemistry, (21), 3442-3450 (2019)
 30. Surface relief gratings in azopolyimides induced by pulsed laser irradiation
J. Konieczkowska, E. Schab-Balcerzak, M. Libera, I. Mihaila, I. Sava
European Polymer Journal, 110, 85-89 (2019)
 31. Synthesis and photophysical properties of inclusion complexes between conjugated polyazomethines with γ -cyclodextrin and its tris-O-methylated derivative
A. Farcas, Y. C. Liu, M. Nilam, M. Balan-Porcarasu, E. L. Ursu, W. M. Nau, A. Henning
European Polymer Journal, 113, 236-243 (2019)
 32. Novel supramolecular networks based on PEG and PEDOT crosslinked polyrotaxanes as electrical conductive materials
A. M. Resmerita, M. Asandulesa, G. Bulai, A. Farcas
European Polymer Journal, 114, 39-46 (2019)
 33. Polyurethane/poly(vinyl alcohol) hydrogels: Preparation, characterization and drug delivery
M. Mandru, M. Bercea, L. M. Gradinaru, C. Ciobanu, M. Drobota, S. Vlad, R. Albulescu
European Polymer Journal, 118, 137-145 (2019)
 34. New self-healing hydrogels based on reversible physical interactions and their potential applications
L. E. Nita, A. P. Chiriac, A. G. Rusu, M. Bercea, A. Ghilan, R. P. Dumitriu, L. Mititelu-Tartau
European Polymer Journal, 118, 176-185 (2019)
 35. Semi-alicyclic polyimides as potential membrane oxygenators: Rheological implications on film processing morphology and blood compatibility
R. M. Albu, C. Hulubei, I. Stoica, A. I. Barzic
eXPRESS Polymer Letters, 13, 349-364 (2019)
 36. Essential oils of Moldavian *Thymus* species: Chemical composition, antioxidant, anti-*Aspergillus* and antigenotoxic activities
A. C. Aprotosoiaie, A. Miron, N. Ciocarlan, M. Brebu, C. M. Rosu, A. Trifan, G. Voichita, D. Gherghel, S. V. Luca, A. Nita, I. I. Costache, C. T. Mihai
Flavour and Fragrance Journal, 34, 175-186 (2019)
 37. Chemical and physical methods for multifunctional nanostructured interface fabrication
I. V. Tudose, F. Comanescu, P. Pascariu, S. Bucur, L. Rusen, F. Iacomi, E. Koudoumas, M. P. Sucheaa
Functional Nanostructures Interfaces for Environmental and Biomedical Applications, V. Dinca, M. P. Sucheaa, Eds., Elsevier, Amsterdam, 15-26 (2019)
 38. Graphene-based materials and their biomedical and environmental applications: Recent advances
I. V. Tudose, E. Koudoumas, C. Pachiou, F. Comanescu, V. Dinca, L. Rusen, P. Pascariu,
Functional Nanostructures Interfaces for Environmental and Biomedical Applications,

- | | | | |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | M. P. Suchea | V. Dinca, M. P. Suchea, Eds., Elsevier, Amsterdam, 243-257 (2019) |
| 39. | Nanostructured ZnO-based materials for biomedical and environmental applications | I. V. Tudose, N. Vrinceanu, C. Pachi, S. Bucur, P. Pascariu, L. Rusen, E. Koudoumas, M. P. Suchea | Functional Nanostructures Interfaces for Environmental and Biomedical Applications, V. Dinca, M. P. Suchea, Eds., Elsevier, Amsterdam, 285-305 (2019) |
| 40. | Electrospun TiO ₂ -based nanofiber composites and their bio-related and environmental applications | P. Pascariu, A. Airinei, F. Iacomi, S. Bucur, M. P. Suchea | Functional Nanostructures Interfaces for Environmental and Biomedical Applications, V. Dinca, M. P. Suchea, Eds., Elsevier, Amsterdam, 307-321 (2019) |
| 41. | Applications of metallic nanostructures on biomedical field | P. Pascariu, E. Koudoumas, V. Dinca, L. Rusen, M. P. Suchea | Functional Nanostructures Interfaces for Environmental and Biomedical Applications, V. Dinca, M. P. Suchea, Eds., Elsevier, Amsterdam, 341-361 (2019) |
| 42. | Liquid crystal polymers | A. I. Barzic, R. M. Albu, L. I. Buruiana | High Performance Polymers and their Nanocomposites, P. M. Visakh, A. O. Semkin, Eds, Wiley and Scrivener Publ., Hoboken, N.Y., USA, 27-58 (2019) |
| 43. | Behavior of historical printing inks on paper in high frequency cold plasma discharges | E. G. Ioanid, V. Frunza, D. E. Rusu, A. M. Vlad, G. Savin, C. M. Popescu | IEEE Transactions on Plasma Science, 47, 81-85 (2019) |
| 44. | Chitosan-based magnetic adsorbent for removal of water-soluble anionic dye: Artificial neural network modeling and molecular docking insights | C. Cojocaru, P. Samoila, P. Pascariu | International Journal of Biological Macromolecules, 123, 587-599 (2019) |
| 45. | Green route for the fabrication of self-healable hydrogels based on tricarboxy cellulose and poly(vinyl alcohol) | R. I. Baron, M. Bercea, M. Avadanei, G. Lisa, G. Biliuta, S. Coseri | International Journal of Biological Macromolecules, 123, 744-751 (2019) |
| 46. | Multifunctional hybrid 3D network based on hyaluronic acid and a copolymer containing pendant spiroacetal moieties | L. E. Nita, A. P. Chiriac, M. Bercea, A. Ghilan, A. G. Rusu, R. P. Dumitriu, L. Mititelu-Tartau | International Journal of Biological Macromolecules, 125, 191-202 (2019) |
| 47. | Could the porous chitosan-based composite materials have a chance to a "New Life" after Cu(II) ion binding? | M. M. Lazar, I. A. Dinu, M. Sillion, E. S. Dragan, M. V. Dinu | International Journal of Biological Macromolecules, 131, 134-146 (2019) |
| 48. | Valorization of lignin in polymer and composite systems for advanced engineering applications - A review | M. N. Collins, M. Nechifor, F. Tanasa, M. Zanoaga, A. McLoughlin, M. A. Strozyk, M. Culebras, C. A. Teaca | International Journal of Biological Macromolecules, 131, 828-849 (2019) |
| 49. | Interpenetrated polymer network with modified chitosan in composition and self-healing properties | A. G. Rusu, A. P. Chiriac, L. E. Nita, M. Bercea, N. Tudorachi, A. Ghilan, D. Pamfil, D. Rusu, F. D. Cojocaru | International Journal of Biological Macromolecules, 132, 374-384 (2019) |

50. Structural and sorption properties of bionanocomposite films based on k-carrageenan and cellulose nanocrystals
M. C. Popescu, B. I. Dogaru, D. Sun, E. Stoleru, B. C. Simionescu
International Journal of Biological Macromolecules, 135, 462-471 (2019)
51. X-ray structure elucidation of a Pt-metalloporphyrin and its application for obtaining sensitive AuNPs-plasmonic hybrids capable of detecting triiodide anions
E. Fagadar-Cosma, A. Lascu, S. Shova, M. F. Zaltariov, M. Birdeanu, L. Croitor, A. Balan, D. Anghel, S. Stamatin
International Journal of Molecular Sciences, 20, Article 710/1-19 (2019)
52. Polysaccharide-based ionic polymer metal composite actuators
A. Popa, A. Filimon, L. Lupa
Ionic Polymer Metal Composites for Sensors and Actuators, Inamuddin, A. M. Asiri, Eds., Springer, 19-34 (2019)
53. Role of metal ion implantation on ionic polymer metal composite membranes
A. M. Dobos, A. Filimon
Ionic Polymer Metal Composites for Sensors and Actuators, Inamuddin, A. M. Asiri, Eds., Springer, 53-73 (2019)
54. Effect of hydrolyzed collagen on thermal, mechanical and biological properties of poly(lactic acid) bionanocomposites
M. Rapa, L. M. Stefan, P. Preda, R. N. Darie-Nita, A. Gaspar-Pintilescu, A. M. Seciu, C. Vasile, E. Matei, A. M. Predescu
Iranian Polymer Journal, 28, 271-282 (2019)
55. Functional properties of randomly mixed and layered BaTiO₃-CoFe₂O₄ ceramic composites close to the percolation limit
A. Guzu, C. E. Ciomaga, M. Airimioaei, L. Padurariu, L. P. Curecheriu, I. Dumitru, F. Gheorghiu, G. Stoian, M. Grigoras, N. Lupu, M. Asandulesa, L. Mitoseriu
Journal of Alloys and Compounds, 796, 55-64 (2019)
56. Hydrophobic, amorphous metal-organic network readily prepared by complexing the aluminium ion with a siloxane spaced dicarboxylic acid in aqueous medium
M. Cazacu, G. O. Turcan-Trofin, A. Vlad, A. Bele, S. Shova, A. Nicolescu, A. Bargan
Journal of Applied Polymer Science, 136, Article 47144/1-11 (2019)
57. Self-doped N-propansulfonic acid polyaniline-polyethylene terephthalate film used as active sensor element for humidity or gas detection
A. M. Solonaru, M. Grigoras, I. Petrila, F. Tudorache
Journal of Applied Polymer Science, 136, Article 47743/1-7 (2019)
58. Synthesis and testing of cellulose acetate nicotinate as adsorbent for Rhodamine B dye
N. Olaru, N. Anghel, P. Pascariu, G. Ailiesei
Journal of Applied Polymer Science, 136, Article 47772 (2019)
59. Nitrosalicyl-imine-chitosan hydrogels based drug delivery systems for long term sustained release in local therapy
A. M. Craciun, L. Mititelu Tartau, M. Pinteala, L. Marin
Journal of Colloid and Interface Science, 536, 196-207 (2019)
60. New modified release tablets of bisoprolol fumarate for the treatment of hypertension: characterization and in vitro evaluation
A. D. Panaite, C. Gafiteanu, I. Stoleriu, L. Mititelu Tartau, M. C. Popescu, G. Lisa, E. G. Popa
Journal of Drug Delivery Science and Technology, 50, 402-409 (2019)
61. Improving the properties of the polyester fabrics by grafting with 3-chloro-2-hydroxypropyl acrylate
E. I. Muresan, G. Rusu, A. Danila, M. Drobot, F. Doroftei, C. D. Radu
Journal of Engineered Fibers and Fabrics, 14, 1-9 (2019)
62. Sequencing bath bioabsorption of
I. Morosanu, C. Teodosiu, A.
Journal of Environmental

- micropollutants from aqueous effluents by rapeseed waste: Experimental assessment and statistical modelling
63. Novel rare earth (RE-La, Er, Sm) metal doped ZnO photocatalysts for degradation of Congo-Red dye: Synthesis, characterization and kinetic studies
64. Inhibition of bacterial α -, β - and γ -class carbonic anhydrases with selenazoles incorporating benzenesulfonamide moieties
65. Inhibition of α -, β -, γ -, δ -, ζ - and η -class carbonic anhydrases from bacteria, fungi, algae, diatoms and protozoans with famotidine
66. Endocan - a potential diagnostic marker for early onset sepsis in neonates
67. Diagnosis of human echinococcosis via exhaled breath analysis: A promise for rapid diagnosis of infectious diseases caused by helminths
68. Intermolecular interactions and self-assembly of polyurethane with poly(vinyl alcohol) in aqueous solutions
69. Bichromophoric pyrazoline derivative with solvent-selective photoluminescence quenching
70. Nonlinear optical properties (NLO) and metal ions sensing responses of a polymer containing 1,3,4-oxadiazole and bisphenol units
71. Linear and cyclic siloxanes functionalized with polar groups by thiol-ene addition: Synthesis, characterization and exploring some material behaviour
72. Photochromic cycle of two N-salicylidene-p-X-anilines revealed by the dynamics over 10 orders of magnitude
73. Pyrazoline based chloride sensor for body fluids screening
74. Micellar and rheological properties of some sodium deoxycholate-based poly(ester ether)urethane ionomer biomaterials in N,N'-dimethylformamide solutions
75. Binding assessment of methylene
- Coroaba, C. Paduraru
- P. Pascariu, C. Cojocaru, N. Olaru, P. Samoila, A. Airinei, M. Ignat, L. Sacarescu, D. Timpu
- A. Angeli, M. Pinteala, S. S. Maier, S. Del Prete, C. Capasso, B. C. Simionescu, C. T. Supuran
- A. Angeli, M. Pinteala, S. S. Maier, S. Del Prete, C. Capasso, B. C. Simionescu, C. T. Supuran
- G. I. Zonda, R. Zonda, A. T. Cernomaz, L. Paduraru, A. L. Avasiloiu, B. D. Grigoriu
- T. G. Welearegay, M. F. Diouani, L. Osterlund, S. Borys, S. Khaled, H. Smadhi, F. Ionescu, M. Bouchekoua, D. Aloui, Z. Laouini, U. Cindemir, R. Ionescu
- M. Bercea, L. M. Gradinaru, M. Mandru, D. L. Tigau, C. Ciobanu
- A. L. Chibac, G. Roman, C. Cojocaru, S. Shova, G. Sacarescu, M. Simionescu, L. Sacarescu
- M. Homocianu, A. Airinei, C. Hamciuc, A. M. Ipate
- G. O. Turcan-Trofin, M. Asandulesa, M. Balan-Porcarasu, C. D. Varganici, V. Tiron, C. Racles, M. Cazacu
- M. Avadanei, J. Pina, C. Serpa, R. Tigoianu, V. Cozan
- A. L. Chibac, G. Roman, C. Cojocaru, G. Sacarescu, M. Simionescu, L. Sacarescu
- D. Filip, D. Macocinschi, S. Vlad, C. Ibanescu, M. Danu, M. F. Zaltariov
- C. Cojocaru, L. Clima
- Management, 230, 110-118 (2019)
- Journal of Environmental Management, 239, 225-234 (2019)
- Journal of Enzyme Inhibition and Medicinal Chemistry, 34, 244-249 (2019)
- Journal of Enzyme Inhibition and Medicinal Chemistry, 34, 644-650 (2019)
- Journal of Infection in Developing Countries, 13, 311-317 (2019)
- Journal of Infectious Diseases, 219, 101-109 (2019)
- Journal of Molecular Liquids, 274, 562-567 (2019)
- Journal of Molecular Liquids, 278, 156-163 (2019)
- Journal of Molecular Liquids, 281, 141-149 (2019)
- Journal of Molecular Liquids, 282, 187-196 (2019)
- Journal of Molecular Liquids, 283, 617-529 (2019)
- Journal of Molecular Liquids, 284, 139-146 (2019)
- Journal of Molecular Liquids, 285, 451-458 (2019)
- Journal of Molecular Liquids,

- blue to human serum albumin and poly(acrylic acid): Experimental and computer-aided modeling studies
76. Chain conformation of xanthan in solution as influenced by temperature and salt addition
77. Synthesis, structural characterization and biological studies of new Schiff base containing trimethyl silyl groups
78. Nanomaterials developed by processing iron coordination compounds for biomedical application
79. Surface morphology effects on photocatalytic activity of metal oxides nanostructured materials immobilized onto substrates
80. Acid-responsive behavior promoted by imine units in novel triphenylamine-based oligomers functionalized with chromphoric moieties
81. Photocatalytic degradation of Rhodamine B dye by polymer films containing ZnO, Ag nanoparticles and polypyrrole
82. Design-properties relationships of polyurethanes elastomers depending on different chain extenders structures
83. Synthesis and properties of copolyarylenes containing indolo[3,2-b]carbazole moieties in the backbone
84. Coriander essential oil and linalool - interactions with antibiotics against gram-positive and gram-negative bacteria
85. Crystal smectic E revisited for (E)-N-(biphenyl-4-ylmethylene)-4-butylaniline - mesomorphism, crystal structure and FTIR study
86. Synthesis and solution properties of thermosensitive hydrophilic imidazole-based copolymers with improved catalytic activity
87. Multifunctional magnetic cargo-complexes with radical scavenging properties
88. Dynamic constitutional chemistry towards efficient nanoviral vectors
89. Physical hydrogels of oxidized
- 285, 811-821 (2019)
- C. E. Brunchi, M. Avadanei, M. Bercea, S. Morariu
- M. F. Zaltariov, M. Avadanei, M. Balan, D. Peptanariu, N. Vornicu, S. Shova
- M. Iacob, C. Racles, M. Dascalu, C. Tugui, V. Lozan, M. Cazacu
- P. Pascariu, I. V. Tudose, M. Sucheana
- A. E. Bejan, M. D. Damaceanu
- V. E. Podasca, T. Buruiana, E. C. Buruiana
- S. Oprea, D. Timpu, V. Oprea
- O. I. Negru, M. Grigoras
- P. Aelenei, C. M. Rimbu, E. Guguianu, G. Dimitriu, A. C. Aprotosoiaie, M. Brebu, C. E. Horhogeana, A. Miron
- V. Cozan, M. Avadanei, S. Shova, M. F. Zaltariov
- L. Stroea, T. Buruiana, E. C. Buruiana
- A. L. Lungoci, I. A. Turin-Moleavin, A. Corciova, C. Mircea, A. Arvinte, A. Fifere, N. L. Marangoci, M. Pinteala
- D. Ailincăi, D. Peptanariu, M. Pinteala, L. Marin
- R. I. Baron, M. E. Culica, G.
- Journal of Molecular Liquids, 287, Article 111008/1-8 (2019)
- Journal of Molecular Structure, 1175, 624-631 (2019)
- Journal of Nanomaterials, volume 2019, Article ID 2592974/1-14 (2019)
- Journal of Nanoscience and Nanotechnology, 19, 295-306 (2019)
- Journal of Photochemistry and Photobiology A: Chemistry, 378, 24-37 (2019)
- Journal of Photochemistry and Photobiology A: Chemistry, 371, 188-195 (2019)
- Journal of Polymer Research, 26, Article 117/1-15 (2019)
- Journal of Polymer Research, 26, Article 30 (2019)
- Letters in Applied Microbiology, 68, 156-164 (2019)
- Liquid Crystals, 46, 492-501 (2019)
- Materials Chemistry and Physics, 223, 311-318 (2019)
- Materials Science and Engineering: C Materials for Biological Applications, 94, 608-618 (2019)
- Materials Science and Engineering: C Materials for Biological Applications, 94, 635-646 (2019)
- Materials, 12, Article 1569/1-

- polysaccharides and poly(vinyl alcohol) for wound dressing applications
90. Chitosan-based bionanocomposite films prepared by emulsion technique for food preservation
91. Novel mutation in GALT gene in galactosemia patient with Group B Streptococcus meningitis and acute liver failure
92. Transparent dielectric materials
93. Synergistic effect of low molecular weight polyethyleneimine and polyethylene glycol components in dynamic nonviral vector structure, toxicity, and transfection efficiency
94. Eco-friendly method for tailoring biocompatible and antimicrobial surfaces of poly-L-lactic acid
95. Investigation of the cytotoxic potential of methyl imidazole-derived thiosemicarbazones and their copper (II) complexes with dichloroacetate as a co-ligand
96. Secondary compounds in the catalytic hydrogenation of enone and allylic alcohol prostaglandin intermediates: isolation, characterization, and X-ray crystallography
97. Drug delivery systems based on pullulan polysaccharides and their derivatives
98. Characterizing key features in the formation of ice and gas hydrate systems
99. Photocatalytic activity of ZnO-SnO₂
- Biliuta, M. Bercea, S. Gherman, D. Zavastin, L. Ochiuz, M. Avadanei, S. Coseri
- E. Butnaru, E. Stoleru, M. A. Brebu, R. N. Darie-Nita, A. Bargan, C. Vasile
- A. Grama, L. Blaga, A. Nicolescu, C. Deleanu, M. Militaru, S. S. Cainap, I. Pop, G. Tita, C. Sirbe, O. Fufezan, M. A. Vintan, R. Vulturar, T. L. Pop
- L. I. Buruiana, A. I. Barzic, C. Hulubei
- B. F. Craciun, G. Gavril, D. Peptanariu, L. E. Ursu, L. Clima, M. Pinteala
- M. Aflori, M. Butnaru, B. M. Tihauan, F. Doroftei
- O. Palamarciuc, M. N. M. Milunovic, A. Sirbu, E. Stratulat, A. Pui, N. Gligorijevic, S. Radulovic, J. Kozisek, D. Darvasiova, P. Rafta, E. A. Enyedy, C. Novitchi, S. Shova, V. B. Arion
- C. I. Tanase, F. Cocu, C. Draghici, A. Hanganu, L. Pintilie, M. Maganu, C. V. A. Munteanu, S. Shova
- A. G. Grigoras
- S. Liang, K. W. Hall, A. Laaksonen, Z. Zhang, P. G. Kusalik
- P. Pascariu, C. Cojocar, N.
- 15 (2019)
- Materials, 12, Article 373/1-17 (2019)
- Medicina (Lithuania), 55, Article 91/1-6 (2019)
- Modern Physical Chemistry, Engineering Models, Materials and Methods with Applications, R. Haghi, E. Besalu, M. Jaroszewski, S. Thomas, K. M. Praveen, Eds., Apple Academic Press, Waretown, NY, USA, 95-124 (2019)
- Molecules, 24, Article 1460/1-13 (2019)
- Nanomaterials, 9, Article 428/1-16 (2019)
- New Journal of Chemistry, 43, 1340-1357 (2019)
- New Journal of Chemistry, 43, 7582-7599 (2019)
- Pharmaceuticals from Microbes. The Bioengineering Perspective, D. Arora, C. Sharma, S. Jaglan, E. Lichtfouse, Eds., Springer, 99-141 (2019)
- Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences, 377, Article 20180167/1-28 (2019)
- Physica Status Solidi b:

- ceramic nanofibers for RhB dye degradation: Experimental design, modeling and process optimization
100. Shear flow simulations of smectic liquid crystals based on the Gay-Berne fluid and the soft sphere string-fluid
101. Morus alba leaf extract: Metabolite profiling and acid interactions with antibiotics against Staphylococcus spp. including MRSA
102. Coordination polymers and supramolecular solid-state architectures constructed from an organometallic tecton, bis(4-pyridyl)mercury
103. Exploring the effect of electron beam irradiation on the properties of some EPDM-flax fiber composites
104. Thermal behaviour and fungi resistance of composites based on wood and natural and synthetic epoxy resins cured with maleopimaric acid
105. Effect of temperature and comonomer content on poly(ϵ -caprolactam-co- ϵ -caprolactone) copolymers properties: An evaluation of structural changes and dielectric behavior
106. Thermal degradation study of some poly(arylene ether nitrile)s by TG/MS/FTIR analysis
107. Nanorobots with applications in medicine
108. Polymeric nanomaterials: Recent developments, properties and medical applications
109. Nucleic acids-based bionanomaterials for drug and gene therapy
110. Electrospun polymeric nanostructures with applications in nanomedicine
111. Magnetic polymeric nanocomposites
112. Nanogels containing
- Olaru, A. Airinei
- S. Sarman, Y. L. Wang, A. Laaksonen
- P. Aelenei, S. V. Luca, C. E. Horhoge, C. M. Rimbu, G. Dimitriu, I. Macovei, M. Sillion, A. C. Aprotosoae, A. Miron
- T. Mocanu, L. Kiss, A. Sava, S. Shova, C. Silvestru, M. Andruh
- M. D. Stelescu, A. Airinei, E. Manaila, N. Fifere, G. Craciun, C. Varganici, F. Doroftei
- L. Rosu, F. Mustata, C. D. Varganici, D. Rosu, T. Rusu, I. Rosca
- E. Rusu, G. Rusu, D. Rusu
- G. Lisa, C. Hamciuc, E. Hamciuc, N. Tudorachi
- M. T. Nistor, A. G. Rusu
- C. Vasile.
- E. Stoleru, C. Vasile
- B. S. Munteanu, C. Vasile
- A. Diaconu, A. P. Chiriac, I. Neamtu, L. E. Nita
- I. Neamtu, A. P. Chiriac, L. E.
- Basic State Solid Physics, 265, Article 1800474/1-8 (2019)
- Physical Chemistry Chemical Physics, 21, 292-305 (2019)
- Phytochemistry Letters, 31, 217-224 (2019)
- Polyhedron, 166, 7-16 (2019)
- Polymer Composites, 40, 315-327 (2019)
- Polymer Degradation and Stability, 160, 148-161 (2019)
- Polymer Engineering and Science, 59, 465-477 (2019)
- Polymer Testing, 75, 220-228 (2019)
- Polymeric Nanomaterials in Nanotherapeutics, C. Vasile, Ed., Elsevier, Amsterdam, 123-149 (2019)
- Polymeric Nanomaterials in Nanotherapeutics, C. Vasile, Ed., Elsevier, Amsterdam, 1-66 (2019)
- Polymeric Nanomaterials in Nanotherapeutics, C. Vasile, Ed., Elsevier, Amsterdam, 235-260 (2019)
- Polymeric Nanomaterials in Nanotherapeutics, C. Vasile, Ed., Elsevier, Amsterdam, 261-298 (2019)
- Polymeric Nanomaterials in Nanotherapeutics, C. Vasile, Ed., Elsevier, Amsterdam, 359-386 (2019)
- Polymeric Nanomaterials in

- polysaccharides for bioapplications Nita, A. Diaconu, A. G. Rusu Nanotherapeutics, C. Vasile, Ed., Elsevier, Amsterdam, 387-420 (2019)
113. Nanoscaled dispersed systems used in drug-delivery applications C. N. Cheaburu-Yilmaz, H. Y. Karasulu, O. Yilmaz Polymeric Nanomaterials in Nanotherapeutics, C. Vasile, Ed., Elsevier, Amsterdam, 437-468 (2019)
114. Regulatory status of therapeutic polymeric materials C. Vasile, L. Profire, A. Corciova Polymeric Nanomaterials in Nanotherapeutics, C. Vasile, Ed., Elsevier, Amsterdam, 497-518 (2019)
115. Responsive polymeric nanotherapeutics D. Pamfil, C. Vasile Polymeric Nanomaterials in Nanotherapeutics, C. Vasile, Ed., Elsevier, Amsterdam, 67-121 (2019)
116. Heavy metal adsorption ability of a new composite material based on starch strengthened with chemically modified cellulose N. Anghel, M. Niculaua, I. Spiridon Polymers for Advanced Technologies, 30, 1453-1460 (2019)
117. New alginate/PNIPAAm matrices for drug delivery C. N. Cheaburu-Yilmaz, C. E. Lupusoru, C. Vasile Polymers, 11, Article 366/1-18 (2019)
118. Biocompatible materials based on plasticized poly(lactic acid), chitosan and rosemary ethanolic extract. I. Effect of chitosan on the properties of plasticized poly(lactic acid) materials C. Vasile, E. Stoleru, R. N. Darie-Nita, R. P. Dumitriu, D. Pamfil, L. Tartau Polymers, 11, Article 941/1-28 (2019)
119. Nanocellulose as potential filler material, protective shell and adhesion promoter of microbial agroformulations C. Preininger, U. Sauer, S. Doppler, E. Kulbak, S. Yonsel, C. M. Popescu, C. Popescu Proceedings of the 10th Anniversary International Conference on Nanomaterials - Research and Application, NANOCON 2018, 17-19 Oct. 2019, Brno, Czech Republic, 119-124 (2019)
120. Electrical and mechanical properties of polyimide films treated by plasma formed in water and isopropanol I. Sava, M. Asandulesa, K. Zocher, A. Kruth, J. F. Kolb, W. Bodnar, K. Witte, T. Isjizaki, C. Miron Reactive and Functional Polymers, 134, 22-30 (2019)
121. Synthesis, structure, computational modeling, and biological activity of two novel bismethylene derivatives L. G. Bahrin, L. Clima, S. Shova, I. Rosca, C. Cojocaru, D. Bejan, M. C. Sardaru, N. Marangoci, V. Lozan, A. Rotaru Research on Chemical Intermediates, 45, 453-469 (2019)
122. Biosolids application improves mineral composition and phenolic profile of basil cultivated on eroded soil M. Burducea, V. D. Zheljzakov, A. Lobiuc, A. Pintilie, M. Virgolici, M. Silion, M. Asandulesa, I. Burducea, M. M. Zamfirache Scientia Horticulturae, 249, 407-418 (2019)
123. Removal of some commercial pesticides from aqueous dispersions using as flocculant a thymine-containing chitosan derivative L. Ghimici, I. A. Dinu Separation and Purification Technology, 209, 698-706 (2019)
124. Antagonistic effects in structural design of sulfur-based polyimides C. Hulubei, R. M. Albu, G. Lisa, A. Nicolescu, E. Solar Energy Materials and Solar Cells, 193, 219-230

- as shielding layers for solar cells Hamciuc, C. Hamciuc, A. I. Barzic (2019)
125. GiPlot: An interactive cloud-based tool for visualizing spectral data sets D. Homocianu, M. Homocianu Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 209, 234-240 (2019)
126. Natural decay of archaeological oak wood versus artificial degradation processes - An FTIR spectroscopy and X-Ray diffraction study M. Broda, C. M. Popescu Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 209, 280-287 (2019)
127. Metal ions sensing properties of some phenylquinoxaline derivatives M. Homocianu, A. M. Ipate, D. Homocianu, A. Airinei, C. Hamciuc Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 215, 371-380 (2019)
128. Silver thin films generated by pulsed laser deposition on plasma-treated surface of silicones to get dielectric elastomers transducers C. Tugui, C. Ursu, M. F. Zaltariov, M. Aflori, M. Micusik, M. Omatsova, M. Cazacu Surface and Coating Technology, 358, 282-292 (2019)
129. Thermal behaviour and crystallization of green biocomposites V. C. Grigoras Sustainable Polymer Composites and Nanocomposites, Inamuddin, S. Thomas, R. K. Mishra, A. M. Asiri, Eds., Springer, 1185-1231 (2019)
130. Aliphatic copolyamide nanocomposites: Isothermal crystallization and crystalline morphology induced by clays V. C. Grigoras Thermochemica Acta, 675, 77-83 (2019)
131. Design, synthesis and evaluation of the antimycobacterial activity of 3-mercapto-1,2,4-triazole-pyrrole hybrids G. Roman, A. C. Bostanaru, V. Nastasa, M. Mares Turkish Journal of Chemistry, 43, 531-546 (2019)
132. Investigation of properties of nanofibers from collagen and polyethylene terephthalate using a natural crosslinker M. Drobeta, S. Vlad, L. Gradinaru, M. Butnaru, G. Pircalabioru Cellulose Chemistry and Technology, 53, 211-218 (2019)
133. Microwave dielectric properties of polyimide composites based on TiO₂ nanotubes and carbon nanotubes M. A. Olariu, C. Hamciuc, O. M. Neacsu, E. Hamciuc, L. Dimitrov Digest Journal of Nanomaterials and Biostructures, 14, 37-44 (2019)
134. Behaviour of new pullulan derivative solutions with biotechnological potential A. G. Grigoras, M. Constantin Environmental Engineering and Management Journal, 18, 301-310 (2019)
135. Effect of synthesis parameters on sorption properties of glycerol-derived mesoporous carbon M. Ignat, L. Sacarescu, M. E. Fortuna, P. Cool, V. Harabagiu Environmental Engineering and Management Journal, 18, 59-69 (2019)
136. n-Type polyimides incorporating oxadiazole and perylene fluorophores R. D. Rusu, M. D. Damaceanu, B. Jarzabek, L. Vacareanu, M. Bruma Environmental Engineering and Management Journal, 18, 89-98 (2019)
137. In-vivo safety and efficacy evaluation of a novel polymeric based lidocaine formulation for topical analgesia A. Luca, C. T. Mihai, G. D. Stanciu, V. Bild, E. Cojocar, R. Ancuceanu, V. Harabagiu, C. Peptu, C. A. Peptu, M. M. Leon-Constantin, T. Alexa-Straulat Farmacia, 67, 117-127 (2019)
138. Antioxidant, antimicrobial and A. Corciova, C. Mircea, A. F. Farmacia, 67, 482-489

- photocatalytic activities of silver nanoparticles obtained by bee propolis extract assisted biosynthesis
139. Hydrogel-active wound dressing for drug delivery in wound healing and skin regeneration
140. Chitosan-based bionanocomposite for transdermal therapy
141. Ultrastructural aspects of *Yersinia ruckeri* cells after treatment with non-thermal plasma-activated water
142. Synthesis of 2-pyrrolydiny-1,3-dithiolium derivatives from propiophenones
143. Synthesis of 4-(2-hydroxy-5-methylphenyl)-1,3-dithiol-2-ylidene
144. 4-(2-Hydroxyphenyl)-1,3-dithiol-2-ylidene derivatives
145. Synthesis of 4-(4-hydroxyaryl)-1,3-dithiolium perchlorates
146. Characterization and discrimination of plant fossils by ATR-FTIR, XRD and chemometric methods
147. Polymeric Nanomaterials in Nanotherapeutics
- Burlec, O. Cioanca, C. (2019)
- Tuchilus, A. Fifere, A. L. Lungoci, N. Marangoci, M. Hancianu
- M. Mandru, M. Spiridon, M. Aflori, D. Ichim, D. Spaiuc, P. Plamadeala
- M. Aflori, M. Spiridon, M. Butnaru, M. Mandru, L. Romila, O. Daraba, A. Burlui
- A. C. Lupu, A. C. Bostanaru, M. Mares, L. Ursu, C. Roman, R. Mindru, L. D. Miron
- L. G. Sarbu, C. N. Lungu, I. Sandu, P. Chirita, L. G. Bahrin
- C. N. Lungu, I. V. Asaftei, I. Sandu, P. Chirita, L. G. Bahrin
- C. N. Lungu, I. V. Asaftei, I. Sandu, L. G. Bahrin
- L. G. Bahrin, C. N. Lungu, I. V. Asaftei, I. Sandu
- S. Gosav, A. Ene, M. Aflori
- C. Vasile, Ed.
- International Journal of Medical Dentistry, 23, 32-39 (2019)
- International Journal of Medical Dentistry, 23, 40-45 (2019)
- Revista de Chimie, 70, 121-123 (2019)
- Revista de Chimie, 70, 1311-1314 (2019)
- Revista de Chimie, 70, 1558-1560 (2019)
- Revista de Chimie, 70, 161-164 (2019)
- Revista de Chimie, 70, 527-531 (2019)
- Romanian Journal of Physics, 64, Article 806/1-10 (2019)
- Elsevier, Amsterdam, 558 p (2019)