

## Lista lucrari 2014

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| <p>1. Efficient sorption of Cu<sup>2+</sup> by composite chelating sorbents based on potato starch-graft-polyamidoxime embedded in chitosan beads</p> <p>2. Biomimetismo aplicado al desarrollo de nuevos artículos textiles: un nuevo campo de posibilidades</p> <p>3. Calcium carbonate microparticle growth controlled by a conjugate drug-copolymer and crystallization time</p> <p>4. Biopolymers-zeolites composites as biosorbents for separation processes</p> <p>5. Interpenetrating polymer network composite hydrogels and their applications in separation processes</p> <p>6. Toward adaptive self-informed membranes</p> <p>7. Silica nanowires obtained on clay mineral layers and their influence on mini-emulsion polymerisation</p> <p>8. Laser prepared organic heterostructures based on star-shaped arylenevinylene compounds</p> <p>9. Lipolytic biocatalyst based on recyclable magnetite-polysilane nanoparticles</p> <p>10. Organic heterostructures based on arylenevinylene oligomers deposited by MAPLE</p> <p>11. Electrical properties and humidity sensor characteristics of lead hydroxyapatite material</p> <p>12. Ionic liquids influence on the surface properties of electron beam irradiated wood</p> | <p>E. S. Dragan, D. F. Apopei Loghin, A. I. Cocarta</p> <p>M. Teodorescu</p> <p>F. Doroftei, M. D. Damaceanu, B. C. Simionescu, M. Mihai M. V. Dinu, E. S. Dragan</p> <p>E. S. Dragan, M. V. Dinu</p> <p>I. Moleavin, M. Barboiu</p> <p>M. C. Corobeia, I. Capek, R. Ianchis, D. Donescu, M. Ghiurea, C. L. Nistor, V. Purcar, L. O. Cintea, C. Prodan, G. Prodan</p> <p>A. Stanculescu, G. Socol, M. Grigoras, T. Ivan, L. Vacareanu, M. Socol, O. Rasoga, C. Breazu, I. N. Mihailescu, I. Iordache, N. Preda, F. Stanculescu</p> <p>A. Durdureanu-Angheluta, M. E. Ignat, S. S. Maier, L. Pricop, A. Coroaba, A. Fifere, M. Pinteala, A. Chiriac</p> <p>M. Socol, N. Preda, L. Vacareanu, M. Grigoras, G. Socol, I. N. Mihailescu, F. Stanculescu, M. Jelinek, A. Stanculescu, M. Stoicanescu</p> <p>F. Tudorache, I. Petrila, K. Popa, A. M. Catargiu</p> <p>C. Croitoru, S. Patachia, F. Doroftei, E. Parparita, C. Vasile</p> | <p>ACS Applied Materials and Interfaces, 6, 16577-16592 (2014)</p> <p>AITEX Review, 14(47), 8-11 (2014)</p> <p>Acta Crystallographica Section B, 70, 227-235 (2014)</p> <p>Advanced Separations by Specialized Sorbents, E. S. Dragan, Ed., CRC Press, Boca Raton, FL, USA, 143-173 (2014)</p> <p>Advanced Separations by Specialized Sorbents, E. S. Dragan, Ed., CRC Press, Boca Raton, FL, USA, 281-309 (2014)</p> <p>Advanced Separations by Specialized Sorbents, E. S. Dragan, Ed., CRC Press, Boca Raton, FL, USA, 315-322 (2014)</p> <p>Applied Clay Science, 95, 232-242 (2014)</p> <p>Applied Physics A: Materials Science and Processing, 117, 261-268 (2014)</p> <p>Applied Surface Science, 292, 898-905 (2014)</p> <p>Applied Surface Science, 302, 216-222 (2014)</p> <p>Applied Surface Science, 303, 175-179 (2014)</p> <p>Applied Surface Science, 314, 956-966 (2014)</p> |
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13. Influence of A-site cation on structure and dielectric properties in A2DyBiO <sub>6</sub> (A = Mg, Ca, Sr, Ba) double perovskites	S. Feraru, A. I. Borhan, P. Samoila, G. G. Nedelcu, A. R. Iordan, M. N. Palamaru	Australian Journal of Chemistry, 67, 250-255 (2014)
14. Cyclodextrin-poly(epsilon-caprolactone) based nanoparticles able to complex phenolphthalein and adamantly carboxylate	D. Ailincai, H. Ritter	Beilstein Journal of Nanotechnology, 5, 651-657 (2014)
15. The effect of permodified cyclodextrins encapsulation on the photophysical properties of a polyfluorene with randomly electron-donor and rotaxane electron-acceptor units	A. Farcas, A. M. Resmerita, P. H. Aubert, F. Farcas, I. Stoica, A. Airinei	Beilstein Journal of Organic Chemistry, 10, 2145-2156 (2014)
16. New highlights of the syntheses of pyrrolo[1,2-a]quinoxalin-4-ones	E. Georgescu, A. Nicolescu, F. Georgescu, F. Teodorescu, D. Marinescu, A. M. Macsim, C. Deleanu	Beilstein Journal of Organic Chemistry, 10, 2377-2387 (2014)
17. New carboxylic nucleoside analogues with a bicyclo[2.2.1]heptane fragment, as sugar moiety: synthesis, X-ray crystallography and anticancer activity	C. I. Tanase, C. Draghici, M. T. Caproiu, S. Shova, C. Mathe, F. G. Cocu, C. Enache, M. Maganu	Bioorganic & Medicinal Chemistry, 22, 513-522 (2014)
18. The influence of supramolecular structure of cellulose allomorphs on the interactions with cellulose-binding domain, CBD3b from Paenibacillus barcinonensis	D. Ciolacu, A. I. Chiriac, F. I. J. Pastor, V. Kokol	Bioresource Technology, 157, 14-21 (2014)
19. Green composites comprising thermoplastic corn starch and various cellulose-based fillers	R. Bodirlau, C. A. Teaca, I. Spiridon	Bioresources, 9, 39-53 (2014)
20. Atmospheric pressure plasma polymers for tuned QCM detection of protein adhesion	G. B. Rusu, M. Asandulesa, I. Topala, V. Pohoata, N. Dumitrascu, M. Barboiu	Biosensors and Bioelectronics, 53, 154-159 (2014)
21. Complex microparticulate systems based on glycidyl methacrylate and xanthan	M. A. Lungan, M. Popa, J. Desbrieres, S. Racovita, S. Vasiliu	Carbohydrate Polymers, 104, 213-222 (2014)
22. Micelle-like association of polysaccharides with hydrophobic end groups	M. Nichifor, G. Mocanu, M. C. Stanciu	Carbohydrate Polymers, 110, 209-218 (2014)
23. Synthesis, characterization and solution behaviour of oxidized pullulan	A. Spatareanu, M. Bercea, T. Budtova, V. Harabagiu, L. Sacarescu, S. Coseri	Carbohydrate Polymers, 111, 63-71 (2014)
24. Preparation and characterization of anionic pullulan thermoassociative nanoparticles for drug delivery	G. Mocanu, M. Nichifor, L. Picton, E. About-Jaudet, D. Le Cerf	Carbohydrate Polymers, 111, 892-910 (2014)
25. Formation of polyelectrolyte complexes with diethylaminoethyl dextran: Charge ratio and molar mass effect	D. Le Cerf, A. S. Pepin, P. M. Niang, M. Cristea, C. Karakasyan-Dia, L. Picton	Carbohydrate Polymers, 113, 217-224 (2014)
26. Cationic amphiphilic dextran hydrogels with potential biomedical applications	G. Mocanu, M. Nichifor	Carbohydrate Polymers, 99, 235-241 (2014)
27. Changes of supramolecular cellulose structure and accessibility induced by the processive endoglucanase Cel9B from Paenibacillus barcinonensis	A. I. Chiriac, F. I. J. Pastor, V. I. Popa, M. Aflori, D. Ciolacu	Cellulose, 21, 203-219 (2014)
28. Bilberries exert an anti-atherosclerotic effect in lipid-loaded macrophages	L. S. Niculescu, G. M. Sanda, N. Simionescu, A. V. Sima	Central European Journal of Biology, 9, 268-276 (2014)
29. Synthesis and characterization of	E. C. Buruiana, M. Murariu,	Central European Journal of

poly[N-acryloyl-(D/L, (+/-)-phenylalanine-co-(D/L), (-/+)-N-methacryloyloxyethyl-N'-2-hydroxybutyl(urea)] copolymers	T. Buruiana	Chemistry, 12, 1056-1066 (2014)
30. Hard porous chromium containing macrospheres as new catalysts for the esterification reaction of acetic acid with epichlorohydrin	E. I. Muresan, M. Dobrota, A. Barga, C. A. M. Dumitriu	Central European Journal of Chemistry, 12, 528-536 (2014)
31. Fluorescent polymeric aggregates for selective response to Sarin surrogates	A. D. Rusu, I. A. Moleavin, N. Hurduc, M. Hamel, L. Rocha	Chemical Communications, 50, 9965-9968 (2014)
32. Design and applications of interpenetrating polymer network hydrogels. A review	E. S. Dragan	Chemical Engineering Journal, 243, 572-590 (2014)
33. Facile fabrication of chitosan/poly(vinyl amine) composite beads with enhanced sorption of Cu <sup>2+</sup> . Equilibrium, kinetics, and thermodynamics	E. S. Dragan, A. I. Cocarta, M. V. Dinu	Chemical Engineering Journal, 255, 659-669 (2014)
34. Electrooptical properties of aromatic oligoazomethine/permethylated $\alpha$ -cyclodextrin main-chain polyrotaxanes	A. Stefanache, M. Balan, V. Harabagiu, P. H. Aubert, P. Guegan, A. Farcas	Chemical Physics Letters, 599, 104-109 (2014)
35. Solid state photochromism and thermochromism of two related N-salicylidene anilines	M. Avadanei, V. Cozan, S. Shova, J. A. Paixao	Chemical Physics, 444, 43-51 (2014)
36. Low toxicity $\beta$ -cyclodextrin-caged 4,4'bipyridinium-bis(siloxane): Synthesis and evaluation	N. Marangoci, S. S. Maier, R. Ardeleanu, A. Arvinte, A. R. Petrovici, A. Nicolescu, V. Nastasa, M. Mares, S. A. Pasca, R. F. Moraru, M. Pinteala, A. Chiriac	Chemical Research in Toxicology, 27, 546-557 (2014)
37. Out-of-water constitutional self-organization of chitosan-cinnamaldehyde dynagels	L. Marin, S. Moraru, M. C. Popescu, A. Nicolescu, C. Zgordan, B. C. Simionescu, M. Barboiu	Chemistry - A European Journal, 20, 4814-4821 (2014)
38. A facile synthesis of Pechmann dyes	H. Hopf, P. G. Jones, A. Nicolescu, E. Bicu, L. M. Birsa, D. Belei	Chemistry - A European Journal, 20, 5565-5568 (2014)
39. Multivalent recognition of concanavalin A by {Mo132} glyconanocapsules - Toward biomimetic hybrid multilayers	M. Barboiu, Z. Mouline, M. Silion, E. Lixandru, B. C. Simionescu, E. Mahon, M. Pinteala	Chemistry - A European Journal, 20, 6678-6683 (2014)
40. Study of some polyethylene-clay nanocomposite properties: Influence of preparation method on the degree of clay intercalation/exfoliation	F. Tanasa, M. Zanoaga	Chemistry Journal of Moldova, 9, 106-111 (2014)
41. Antimicrobial reagents as functional finishing for textiles intended for biomedical applications. I. Synthetic organic compounds	M. Zanoaga, F. Tanasa	Chemistry Journal of Moldova, 9, 14-32 (2014)
42. Aminopolycarboxylate bismuth(III)-based heterometallic compounds as single-source molecular precursors for Bi <sub>4</sub> V <sub>2</sub> O <sub>11</sub> and Bi <sub>2</sub> CuO <sub>4</sub> mixed oxides	I. Bulimestru, S. Shova, N. Popa, P. Roussel, F. Capet, R. N. Vannier, N. Djelal, L. Burylo, J. P. Wignacourt, A. Gulea, K. H. Whitmire	Chemistry of Materials, 26, 6092-6103 (2014)
43. Polytriphenylamines synthesized by interfacial and microemulsion oxidative	O. I. Negru, M. Grigoras	Colloid and Polymer Science, 292, 143-151 (2014)

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44.	A polysiloxane surfactant dissolves a poorly soluble drug (nistatin) in water	C. Racles, M. Mares, L. Sacarescu	Colloids and Surfaces A: Physicochemical and Engineering Aspects, 443, 233-239 (2014)
45.	Aqueous dispersion of metal oxide nanoparticles, using siloxane surfactants	C. Racles, M. Iacob, M. Butnaru, L. Sacarescu, M. Cazacu	Colloids and Surfaces A: Physicochemical and Engineering Aspects, 448, 160-168 (2014)
46.	Lanthanum complex of a multifunctional water-soluble siloxane compound - Synthesis, surface activity and applications for nanoparticles stabilization	C. Racles, M. Silion, M. Iacob	Colloids and Surfaces A: Physicochemical and Engineering Aspects, 462, 9-17 (2014)
47.	Immunoglobulin G immobilization on PVDF surface	E. Paslaru, M. C. Baican, E. G. Hitruc, M. T. Nistor, F. Poncin-Epaillard, C. Vasile L. E. Nita, A. P. Chiriac, M. Bercea	Colloids and Surfaces B: Biointerfaces, 115, 139-149 (2014)
48.	Effect of pH and temperature upon self-assembling process between poly(aspartic acid) and Pluronic F127	C. E. Brunchi, S. Morariu, M. Bercea	Colloids and Surfaces B: Biointerfaces, 119, 47-54 (2014)
49.	Intrinsic viscosity and conformational parameters of xanthan in aqueous solutions. Salt addition effect	M. Agop, M. Teodorescu	Colloids and Surfaces B: Biointerfaces, 122, 512-519 (2014)
50.	Quantum effects through non-differentiability of movement curves	M. Mihai, S. Schwartz, F. Doroftei, B. C. Simionescu	Conteporary Research in Quantum Systems, Z. Ezziane, Ed., Nova Science Publishers, 181-198 (2014)
51.	Calcium carbonate/polymers microparticles tuned by complementary polyelectrolytes as complex macromolecular templates	E. Bartolome, J. Bartolome, S. Melnic, D. Prodius, S. Shova, A. Arauzo, J. Luzon, L. Badia-Romano, F. Luis, C. Turta	Crystal Growth and Design, 14, 6073-6083 (2014)
52.	Magnetic relaxation versus 3D long-range ordering in $\{\text{Dy}_2\text{Ba}(\alpha\text{-fur})_8\}_n$ furoate polymers	A. Arauzo, A. Lazarescu, S. Shova, E. Bartolome, R. Cases, J. Luzon, J. Bartolome, C. Turta	Dalton Transactions, 43, 10999-11013 (2014)
53.	Structural and magnetic properties of some lanthanide ( $\text{Ln} = \text{Eu(III)}, \text{Gd(III)}$ and $\text{Nd(III)}$ ) cyanoacetate polymers: Field induced slow magnetic relaxation in the Gd and Nd substitutions	T. Ivan, L. Vacareanu, M. Grigoras	Dalton Transactions, 43, 12342-12356 (2014)
54.	Linear and hyperbranched triphenylamine-based polyarylenevinylenes: a comparative optoelectronic study	M. F. Zaltariov, M. Cazacu, S. Shova, C. D. Varganici, L. Vacareanu, V. Musteata, A. Airinei	Designed Monomers and Polymers, 17, 156-165 (2014)
55.	A silicon-containing polyazomethine and derived metal complexes: synthesis, characterization, and evaluation of the properties	E. C. Buruiana, V. E. Podasca, T. Buruiana	Designed Monomers and Polymers, 17, 668-683 (2014)
56.	Preparation and characterization of novel p-acryloyloxybenzaldehyde copolymers bearing pyrene or fluorescein in moieties. Interaction of fluorophore with some quenchers and silver nanoparticles	M. Iftimie, R. Ardeleanu, N.	Designed Monomers and Polymers, 171, 89-100 (2014)
57.	New copoly(ether sulfone)s containing	Dyes and Pigments, 106,	

	azobenzene crown-ether and fluorene moieties	Fifere, A. Airinei, V. Cozan, M. Bruma	111-120 (2014)
58.	Steam reforming of tar derived from walnut shell and almond shell gasification on red mud and iron-ceria catalysts	S. D. Irdem, E. Parparita, C. Vasile, M. A. Uddin, J. Yanik	Energy and Fuels, 28, 3808-3813 (2014)
59.	Validation of spectrophotometric method for Se(IV) determination: Analytical applications	G. Tantaru, M. Vieriu, M. C. Popescu	Environmental Monitoring and Assessement, 186, 3277-3282 (2014)
60.	$\mu$ -Chlorido-bridged dimanganese(II) complexes of the Schiff base derived from [2+2] condensation of 2,6-diformyl-4-methylphenol and 1,3-bis(3-aminopropyl)tetramethyldisiloxane: Structure, magnetism, electrochemical behaviour and catalytic oxidation of secondary alcohols	M. Alexandru, M. Cazacu, A. Arvinte, S. Shova, C. Turta, B. C. Simionescu, A. Dobrov, E. C. B. A. Alegria, L. M. D. R. S. Martins, A. J. L. Pombeiro, V. B. Arion	European Journal of Inorganic Chemistry, (1), 120-131 (2014)
61.	Tetranuclear copper(II) complexes with macrocyclic and open-chain disiloxane ligands as catalyst precursors for hydrocarboxylation and oxidation of alkanes and 1-phenylethanol	M. F. Zaltariov, M. Alexandru, M. Cazacu, S. Shova, G. Novitchi, C. Train, A. Dobrov, M. V. Kirillova, E. C. B. A. Alegria, A. J. L. Pombeiro, V. B. Arion	European Journal of Inorganic Chemistry, (29), 4946-4956 (2014)
62.	Poly(N-isopropylacrylamide-co-methacrylic acid) pH/thermo-responsive porous hydrogels as self-regulating drug delivery system	M. Constantin, S. Bucatariu, V. Harabagiu, I. Popescu, P. Ascenzi, G. Fundueanu	European Journal of Pharmaceutical Sciences, 62, 86-95 (2014)
63.	Highly transparent and hydrophobic fluorinated polyimide films with ortho-link structure	M. D. Damaceanu, C. P. Constantin, A. Nicolescu, M. Bruma, N. Belomoina, R. S. Begunov	European Polymer Journal, 50, 200-213 (2014)
64.	Poly[2,7-(9,9-dioctylfluorene)-alt-(5,5'-bithiophene/permethylated $\beta$ -cyclodextrin)] main chain polyrotaxane: Synthesis, characterization and surface morphology	A. Stefanache, M. Silion, I. Stoica, A. Fifere, V. Harabagiu, A. Farcaș	European Polymer Journal, 50, 223-234 (2014)
65.	Electrogenerated networks from poly[4-(diphenylamino)benzyl methacrylate] and their electrochromic properties	O. I. Negru, L. Vacareanu, M. Grigoras	Express Polymer Letters, 8, 647-658 (2014)
66.	Preparation and characterization of new polyimide films containing zeolite L and/or silica	E. Hamciuc, C. Hamciuc, V. E. Musteata, Y. Kalvachev, A. Wolinska-Grabczyk	High Performance Polymers, 26, 188-196 (2014)
67.	Thermal stability and optical properties of aromatic polyimides containing side-substituted azobenzene groups	I. Sava, A. Burescu, B. Jarzabek	High Performance Polymers, 26, 73-80 (2014)
68.	Study of thermal decomposition of some azopolyimides	A. I. Burescu, I. Sava, M. Bruma, G. Lisa	High Performance Polymers, 26, 81-88 (2014)
69.	Effect of the hard segment structure on properties of resorcinol derivatives-based polyurethane elastomers	S. Oprea, A. Joga, B. Zorlescu, V. Oprea	High Performance Polymers, 26, 859-866 (2014)
70.	Effect of excimer laser beam spot size on carbon laser-produced plasma dynamics	P. E. Nica, G. B. Rusu, O. G. Dragos, C. Ursu	IEEE Transaction on Plasma Science, 42, 2694-2695 (2014)
71.	New hydrogels based on substituted anhydride modified collagen and 2-	D. Pamfil, C. Schick, C. Vasile	Industrial & Engineering Chemistry Research, 53,

hydroxyethyl methacrylate. Synthesis and characterization		11239-11248 (2014)
72. Tailoring of clay/poly(ethylene oxide) hydrogel properties by chitosan incorporation	S. Morariu, M. Bercea, L. Sacarescu	Industrial & Engineering Chemistry Research, 53, 13690-13698 (2014)
73. Zinc oxide nanocrystals grown on cellulose acetate butyrate nanofiber mats and their potential photocatalytic activity for dye degradation	N. Olaru, G. Calin, L. Olaru	Industrial & Engineering Chemistry Research, 53, 17968-17975 (2014)
74. Preparation and characterization of methyl substituted maleic anhydride: Modified collagens destined for medical applications	D. Pamfil, M. T. Nistor, L. Fras Zemljic, L. Verestiuc, M. Cazacu, C. Vasile	Industrial & Engineering Chemistry Research, 53, 3865-3879 (2014)
75. Effect of nanoclay hydrophilicity on the poly(lactic acid)/clay nanocomposites properties	R. N. Darie, E. Paslaru, A. Sdrobis, G. M. Pricope, G. E. Hitruc, A. Poiata, A. Baklavaridis, C. Vasile	Industrial & Engineering Chemistry Research, 53, 7877-7890 (2014)
76. Ruthenium-nitrosyl complexes with glycine, L-alanine, L-valine, L-proline, D-proline, L-serine, L-threonine and L-tyrosine: Synthesis, X-ray diffraction structures, spectroscopic and electrochemical properties, and antiproliferative activity	A. Rathgeb, A. Bohm, M. S. Novak, A. Gavriluta, O. Domotor, J. B. Tommasino, E. A. Enyedy, S. Shova, S. Meier, M. A. Jakupec, D. Luneau, V. B. Arion	Inorganic Chemistry, 53, 2718-2729 (2014)
77. Magnetic and luminescent binuclear double-stranded helicates	P. Cucos, F. Tuna, L. Sorace, I. Matei, C. Maxim, S. Shova, R. Gheorghe, A. Caneschi, M. Hillebrand, M. Andruch	Inorganic Chemistry, 53, 7738-7747 (2014)
78. Control and prediction of degradation of biopolymer based hydrogels with poly( $\epsilon$ -caprolactone) subunits	R. Diaconescu, B. C. Simionescu, G. David	International Journal of Biological Macromolecules, 71, 147-154 (2014)
79. Do cyclodextrins bound to dextran microspheres act as sustained delivery systems of drugs?	M. Constantin, S. Bucatariu, V. Harabagiu, P. Ascenzi, G. Fundueanu	International Journal of Pharmaceutics, 469, 1-9 (2014)
80. Dielectric characterization of biopolymer/poly( $\epsilon$ -caprolactone) hydrogels	C. Balhui, G. David, M. Drobotă, V. E. Musteata	International Journal of Polymer Analysis and Characterization, 19, 234-244 (2014)
81. Thermal degradation and kinetic studies of new flame-retardant phosphorus-containing polymers with liquid crystalline properties	I. D. Carja, D. Serbezeanu, G. Lisa, T. Vlad-Bubulac, C. Hamciuc	International Journal of Polymer Analysis and Characterization, 19, 372-382 (2014)
82. Wastes from wood extraction used in composite materials: Behavior after accelerated weathering	R. N. Darie, E. Lack, F. Lang Jr., M. Sova, A. Nistor, I. Spiridon	International Journal of Polymer Analysis and Characterization, 19, 453-467 (2014)
83. Morphological investigation of poly[methyl(H)silane-co-diphenylsilane] irradiated by XeCl excimer laser	M. Soroceanu, L. Sacarescu, E. G. Hitruc, C. Ursu, V. Harabagiu	International Journal of Polymer Analysis and Characterization, 19, 482-488 (2014)
84. The curing reaction of epoxidized methyl esters of corn oil with Diels-Alder adducts of resin acids. The kinetic study and thermal characterization of crosslinked products	F. Mustata, N. Tudorachi, I. Bicu	Journal of Analytical and Applied Pyrolysis, 108, 254-264 (2014)

85. Microporous polymeric ion exchangers as adsorbents for the removal of cationic dye basic blue 9 from aqueous solutions	D. Suteu, D. Bilba, S. Coseri	Journal of Applied Polymer Science, 131, Article 39620/1-12 (2014)
86. Biocompatible and biodegradable alginate/poly(N-isopropylacrylamide) hydrogels for sustained theophylline release	R. P. Dumitriu, A. M. Oprea, C. N. Cheaburu, M. T. Nistor, O. Novac, C. M. Ghiciuc, L. Profire, C. Vasile	Journal of Applied Polymer Science, 131, Article 40733/1-16 (2014)
87. Surface relief gratings induced by pulsed laser irradiation in low glass-transitions temperature azopolysiloxanes	V. Damian, E. Resmerita, I. Stoica, C. Ibanescu, L. Sacarescu, L. Rocha, N. Hurduc	Journal of Applied Polymer Science, 131, Article 41015/1-10 (2014)
88. Multicomponent bio-based polymer systems comprising starch and wood polymers - Structure and thermal behavior	C. A. Teaca, R. Bodirlau, D. Rosu, L. Rosu, C. D. Varganici	Journal of Biobased Materials and Bioenergy, 8, 253-260 (2014)
89. Synthesis of poly(alkenoic acid) with L-leucine residue and methacrylate photopolymerizable groups useful in formulating dental restorative materials	T. Buruiana, M. Nechifor, V. Melinte, V. Podasca, E. C. Buruiana	Journal of Biomaterials Science, Polymer Edition, 25, 749-765 (2014)
90. Heparin-anthranoïd conjugates associated with nanomagnetic particles and their cytotoxic effect on cancer cells	A. Durdureanu-Angheluta, C. M. Uritu, A. Coroaba, B. Minea, F. Doroftei, M. Calin, S. S. Maier, M. Pinteala, M. Simionescu, B. C. Simionescu	Journal of Biomedical Nanotechnology, 10, 131-142 (2014)
91. Carbohydrate based nanoparticles for drug delivery across biological barriers	C. A. Peptu, L. Ochiuz, L. Alupei, C. Peptu, M. Popa	Journal of Biomedical Nanotechnology, 10, 2107-2148 (2014)
92. Well-defined silicone-titania composites with good performances in actuation and energy harvesting	M. Cazacu, M. Ignat, C. Racles, M. Cristea, V. Musteata, D. Ovezea, D. Lipcinski	Journal of Composite Materials, 48, 1533-1545 (2014)
93. Fluorescence modulation and photochromism in azobismaleimide derivatives	N. Fifere, A. Airinei, C. Gaina, V. Gaina, M. Grigoras	Journal of Fluorescence, 24, 345-353 (2014)
94. TiO <sub>2</sub> -coated mesoporous carbon: Conventional vs. microwave-annealing process	C. Coromelci-Pastravanu, M. Ignat, E. Popovici, V. Harabagiu	Journal of Hazardous Materials, 278, 382-390 (2014)
95. Experimental design and optimization of leaching process for recovery of valuable chemical elements (U, La, V, Mo, Yb and Th) from low-grade uranium ore	G. Zakrewska-Koltuniewicz, I. Herdzik-Koniecko, C. Cojocaru, E. Chajduk	Journal of Hazardous Materials, 275, 136-145 (2014)
96. Synthesis and optoelectronic characterization of some triphenylamine-based compounds containing strong acceptor substituents	M. Grigoras, T. Ivan, L. Vacareanu, A. M. Catargiu, R. Tigoianu	Journal of Luminescence, 153, 5-11 (2014)
97. Nanocomposites based on aromatic polyamide-imide and magnesium hydrosilicate nanotubes	G. Gubanova, S. Kononova, S. Bronnikov, K. Romashkova, T. Sukhanova, E. Korytkova, D. Timpu, M. Cristea, V. Harabagiu	Journal of Macromolecular Science, Part B: Physics, 53, 555-567 (2014)
98. A straightforward, eco-friendly and cost-	I. D. Carja, D. Serbezeanu,	Journal of Materials

effective approach towards flame retardant epoxy resins	T. Vlad-Bubulac, C. Hamciuc, A. Coroaba, G. Lisa, C. G. Lopez, M. F. Soriano, V. F. Perez, M. D. Romero Sanchez	Chemistry A, 2, 16230-16241 (2014)
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