

Lista lucrari 2018

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| <p>1. Spectacular selectivity in the capture of Methyl Orange by composite anion exchangers with the organic part hosted by DAISOGEL microspheres</p> <p>2. Enhancing the thermal and fungal resistance of wood treated with natural and synthetic derived epoxy resins</p> <p>3. Development of new bexarotene-loaded mesoporous silica systems for topical pharmaceutical formulations</p> <p>4. Structure - property correlations and origin of relaxor behaviour in BaCe_xTi_{1-x}O₃</p> <p>5. Electrochemistry of triphenylamine derivatives</p> <p>6. Chitosan containing biomaterials for tissue engineering applications</p> <p>7. Multiobjective Tabu search method for the optimization of block copolymers structure</p> <p>8. Multimodal porous zirconium silicate macroospheres: Synthesis, characterization and application as catalyst in the ring opening reaction of epichlorohydrin with acrylic acid</p> <p>9. Preparation and characterization of Ni, Co doped ZnO nanoparticles for photocatalytic applications</p> <p>10. Photocatalytic activity of ZnO nanostructures grown on electrospun CAB ultrafine fibers</p> <p>11. Excimer laser ablation of graphite: The enhancement of carbon dimer formation</p> <p>12. Polyglobalide-based porous networks containing poly(ethylene glycol) structures prepared by photoinitiated thiol-ene coupling</p> <p>13. Biomass-derived polyhydroxyalkanoates: Biomedical applications</p> | <p>E. S. Dragan, M. V. Dinu</p> <p>L. Rosu, C. D. Varganici, F. Mustata, T. Rusu, D. Rosu, I. Rosca, N. Tudorachi, C. A. Teaca</p> <p>A. Vasile, M. Ignat, M. F. Zaltarioiu, L. Sacarescu, I. Stoleriu, D. Draganescu, M. Dumitras, L. Ochiuz</p> <p>G. Canu, G. Confalonieri, M. Deluca, L. Curecheriu, M. T. Buscaglia, M. Asandulesa, N. Horchidan, M. Dapiaggi, L. Mitoseriu</p> <p>L. Vacareanu, M. Grigoras</p> <p>M. Baican, C. Vasile</p> <p>T. Rusu, O. M. Gogan</p> <p>E. I. Muresan, D. Lutic, M. Drobota, A. Coroaba, F. Doroftei, M. Pinteala</p> <p>P. Pascariu, I. V. Tudose, M. Succea, E. Koudoumas, N. Fifere, A. Airinei</p> <p>P. Pascariu, L. Olaru, A. L. Matricala, N. Olaru</p> <p>C. Ursu, P. Nica, C. Focsa</p> <p>C. L. Savin, C. Peptu, Z. Kronekova, M. Sedlacik, M. Mrlik, V. Sasinkova, C. A. Peptu, M. Popa, J. Mosnacek</p> <p>C. Peptu, M. Kowalcuk</p> | <p>ACS Applied Materials and Interfaces, 10, 20499-20511 (2018)</p> <p>ACS Sustainable Chemistry and Engineering, 6, 5470-5478 (2018)</p> <p>Acta Chimica Slovenica, 65, 97-107 (2018)</p> <p>Acta Materialia, 152, 258-268 (2018)</p> <p>Advances in Chemistry Research, Nova Science Publishers, 44, 1-73 (2018)</p> <p>Advances in Polymers for Biomedical Applications, D. Pathania, B. Gupta, Eds., Nova Science Publ., New York, 221-278 (2018)</p> <p>AIP Conference Proceedings, 1981, Article 020171/1-4 (2018)</p> <p>Applied Catalysis A: General, 556, 29-40 (2018)</p> <p>Applied Surface Science, 448, 481-488 (2018)</p> <p>Applied Surface Science, 455, 61-69 (2018)</p> <p>Applied Surface Science, 456, 717-725 (2018)</p> <p>Biomacromolecules, 19, 3331-3342 (2018)</p> <p>Biomass as Renewable Raw Materials to Obtain Bioproducts of HighTech Value, V. I. Popa, I. Volf, Eds., Elsevier, 271-313</p> |
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14.	Biochemical modification of lignocellulosic biomass	D. E. Ciolacu	Biomass as Renewable Raw Materials to Obtain Bioproducts of HighTech Value, V. I. Popa, I. Volf, Eds., Elsevier, 315-350 (2018)
15.	Cellulose-based hydrogels for medical/pharmaceutical applications	D. E. Ciolacu, D. M. Suflet	Biomass as Renewable Raw Materials to Obtain Bioproducts of HighTech Value, V. I. Popa, I. Volf, Eds., Elsevier, 401-439 (2018)
16.	Multi-component polymer systems comprising wood as bio-based component and thermoplastic polymer matrices - An overview	C. A. Teaca, F. Tanasa, M. Zanoaga	BioResources, 13, 4728-4769 (2018)
17.	Graphene applications in biosensors and diagnostics	A. Arvinte, A. M. Sesay	Biosensors and Nanotechnology: Applications in Health Care Diagnostics, Z. Altintas, Ed., Wiley, Hoboken, NY, USA, 297-326 (2018)
18.	Biocompatible chitosan based hydrogels for potential application in local tumor therapy	A. M. Olaru, L. Marin, S. Morariu, G. Pricope, M. Pinteala, L. Tartau-Mititelu	Carbohydrate Polymers, 179, 59-70 (2018)
19.	Thermoresponsive behavior of sodium alginate grafted with poly(N-isopropylacrylamide) in aqueous media	O. N. Ciocoiu, G. Staikos, C. Vasile	Carbohydrate Polymers, 184, 118-126 (2018)
20.	Chitosan-based ion-imprinted cryocomposites with excellent selectivity for copper ions	M. V. Dinu, I. A. Dinu, M. M. Lazar, E. S. Dragan	Carbohydrate Polymers, 186, 140-149 (2018)
21.	Dextran derivatives application as flocculants	L. Ghimici, M. Nichifor	Carbohydrate Polymers, 190, 162-174 (2018)
22.	Influence of dextran hydrogel characteristics on adsorption capacity for anionic dyes	M. C. Stanciu, M. Nichifor	Carbohydrate Polymers, 199, 75-83
23.	The peculiar effect of water on ionic liquids and deep eutectic solvents	C. Ma, A. Laaksonen, C. Liu, X. Lu, X. Ji	Chemical Society Reviews, 47, 8685-8720 (2018)
24.	Hydrogen evolution reactions catalyzed by a bis(thiosemicarbazone) cobalt complex: An experimental and theoretical study	T. Straistari, R. Hardre, J. Fize, S. Shova, M. Giorgi, M. Reglier, V. Artero, M. Orio	Chemistry A European Journal, 24, 8779-8786 (2018)
25.	Hybrid collagen/pNIPAAm hydrogel nanocomposites for tissue engineering application	M. T. Nistor, C. Vasile, R. Tatia, A. Chiriac	Colloid and Polymer Science, 296, 1555-1571 (2018)
26.	Thermo- and pH-responsive phase separation of N-isopropylacrylamide with 4-vinylpyridine random copolymer in aqueous solutions	E. Tarabukina, A. Rozanova, A. Filipov, M. Constantin, V. Harabagiu, G. Fundueanu	Colloid and Polymer Science, 296, 557-565 (2018)
27.	Crosslinked multilayer films deposited onto silica microparticles with tunable selectivity for anionic dyes	F. Bucataru, C. A. Ghiorghita, E. S. Dragan	Colloids and Surfaces A: Physicochemical and Engineering Aspects, 537, 53-60 (2018)
28.	Multi-tasking pyridyl-functionalized siloxanes	C. Racles, M. Silion, L. Sacarescu	Colloids and Surfaces A: Physicochemical and Engineering Aspects, 547, 102-110 (2018)
29.	Miscibility study on polymer mixtures in	M. Teodorescu, M.	Colloids and Surfaces A: Physicochemical and Engineering Aspects, 547, 102-110 (2018)

	dilute solution	Bercea, S. Morariu	Physicochemical and Engineering Aspects, 559, 325-333 (2018)
30.	Fractal method for modeling the peculiar dynamics of transient carbon plasma generated by excimer laser ablation in vacuum	C. Ursu, P. Nica, C. Focsa, M. Agop	Complexity, vol. 2018, Article 1814082/1-8 (2018)
31.	Hallosite containing composites for food packaging applications	R. N. Darie-Nita, C. Vasile	Composite Materials for Food Packaging, G. Cirillo, M. A. Kozlowski, U. G. Spizzirri, Eds, Scrivener Publishing LLC and Wiley, 73-122 (2018)
32.	Study of the soil burial degradation of some PLA/CS biocomposites	C. Vasile, D. Pamfil, M. Rapa, R. N. Darie-Nita, A. C. Mitelut, E. E. Popa, P. A. Popescu	Composites Part B: Engineering, 142, 251-262 (2018)
33.	Relationship between component synthesis order of zinc ferrite-titania nanocomposites and their performances as visible light-driven photocatalysts for relevant organic pollutant degradation	M. Ignat, R. Rotaru, P. Samoila, L. Sacarescu, D. Timpu, V. Harabagiu	Comptes Rendus Chimie, 21, 263-269 (2018)
34.	Plasma generation in liquid as a new efficient synthesis approach of titania-zinc ferrite nano(photo)catalyst	M. Ignat, P. Samoila, C. Coromelci, L. Sacarescu, I. Asaftei, V. Harabagiu, C. Miron	Comptes Rendus Chimie, 21, 310-317 (2018)
35.	Organic co-crystals of 1,3-bis(4-pyridyl)azulene with a series of hydrogen-bond donors	A. E. Ion, A. Dogaru, S. Shova, A. M. Madalan, O. Akintola, S. Ionescu, M. Voicescu, S. Nica, A. Buchholz, W. Plass, M. Andruh	CrystEngComm, 20, 4463-4484 (2018)
36.	Using cholesterol as low molecular mass gelator for a new nanogel preparation	A. P. Chiriac, L. E. Nita, A. Diaconu, A. G. Rusu, I. Neamtu, D. Rusu	Current Applied Polymer Science, 2, 37-43 (2018)
37.	Three different types of bridging ligands in a 3d-3d'-3d'' heterotrimetallic chain	M. G. Alexandru, D. Visinescu, S. Shova, M. Andruh, F. Lloret, J. Cano, M. Julve	Dalton Transactions, 47, 1010-1013 (2018)
38.	Nil _{II} -Ln _{III} complexes with o-vanillin as the main ligand: synthesis, structures, magnetic and magnetocaloric properties	J. P. Costes, F. Dahan, L. Vendier, S. Shova, G. Lorusso, M. Evangelisti	Dalton Transactions, 47, 1106-1116 (2018)
39.	Triphenylbismuth(V) di[(iso)nicotinates] - transmetalation agents or divergent organometalloylignands? First organobismuth(V)-based silver(I) coordination polymers	A. B. Kiran, T. Mocanu, A. Pollnitz, S. Shova, M. Andruh, C. Silvestru	Dalton Transactions, 47, 2531-2542 (2018)
40.	Design of 3d-4f molecular squares through the [Fe{HB(pz)} ₃](CN ₃)- metalloligand	M. G. Alexandru, D. Visinescu, S. Shova, W. X. C. Oliveira, F. Lloret, M. Julve	Dalton Transactions, 47, 6005-6017 (2018)
41.	Drug delivery systems based on biocompatible imino-chitosan hydrogels for local anticancer therapy	D. Ailincăi, L. Tartau, Mititelu, L. Marin	Drug Delivery, 25, 1080-1090 (2018)
42.	New blue fluorescent and higher thermostable polyimide and poly(amide-imide)s containing triphenylamine units and (4-dimethylaminophenyl)-1,3,4-oxadiazole side groups	C. Hamciuc, E. Hamciuc, M. Homocianu, A. Nicolescu, G. Lisa	Dyes and Pigments, 148, 249-252 (2018)

43. New insights on solvent implications in flow behaviour and interfacial interactions in hydroxypropylmethyl cellulose with cells/bacteria A. I. Barzic, R. M. Albu, L. M. Gradinaru, L. I. Buruiana e-Polymers, 18, 135-142 (2018)
44. Magnetism in heterotrimetallic chains based on the use of [Wv(bipy)(CN)6]⁻ as a metalloligand M. G. Alexandru, D. Visinescu, S. Shova, M. Andruh, F. Lloret, M. Julve European Journal of Inorganic Chemistry, (3-4), 360-369 (2018)
45. Crystallographic insights into the synthesis and magnetic properties of oxoverdazyl radicals functionalized by benzoic acid V. Kumar, S. Shova, V. Maurel, G. Novitchi, C. Train European Journal of Inorganic Chemistry, (3-4), 517-524 (2018)
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50. Design, synthesis and biological activity evaluation of 3-substituted 1H-5-mercaptop-1,2,4-triazole derivatives as antiproliferative agents in colorectal cancer M. Mioc, S. Avram , V. Bercean, L. Kurunczi, R. M. Ghiulai, C. Oprean, D. E. Coricovac, C. Dehelean, A. Mioc, M. Balan-Porcarasu, C. Tat, C. Stoica Frontiers in Chemistry, 6, Article 373/1-19 (2018)
51. Morphology and electrical conductivity of polyazomethine/hybrid carbon nanofillers composites S. Bronnikov, S. Kostromin, N. Saprykina, M. Asandulesa, A. Podshivalov, V. Cozan Fullerenes, Nanotubes and Carbon Nanostructures, 26, 709-714 (2018)
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53. Natural flavours obtained by microbiological pathway A. R. Petrovici, D. E. Ciolacu Generation of Aromas and Flavours, A. Vilela, Ed., Intech, Rijeka, Croatia, 33-52 (2018)
54. Synthesis and photophysical study of new blue fluorescent poly(azomethine-1,3,4-oxadiazole)s containing dimethylamino groups E. Hamciuc, M. Homocianu, C. Hamciuc, I. D. Carja High Performance Polymers, 30, 339-346 (2018)
55. Molecular design of some semi-alicyclic polyimides as a route to improve refraction and dielectric properties for liquid crystal display applications A. I. Barzic, R. M. Albu, E. G. Ioanid, C. Hulubei High Performance Polymers, 30, 776-786 (2018)

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57. A versatile method for obtaining new oxygenated fuel components from biomass E. Stepan, C. E. Enascuta, E. E. Oprescu, E. Radu, G. Vasilievici, A. Radu, R. Stoica, S. Velea, A. Nicolescu, V. Lavric Industrial Crops and Products, 113, 288-297 (2018)
58. Plasma-activated water: a new and effective alternative for duodenoscope reprocessing G. Balan, I. Rosca, E. L. Ursu, F. Doroftei, A. C. Bostanaru, E. Hnatiuc, V. Nastasa, V. Sandru, G. Stefanescu, A. Trifan, M. Mares Infection and Drug Resistance, 11, 727-733 (2018)
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61. Organomercury complexes bearing (thioxothiazolidin-5-yl)methyl moiety by intramolecular heteromercuration reaction of diallyldithiocarbamate M. Hrubaru, D. C. Onwudiwe, S. Shova, C. Draghici, L. Tarko, E. C. Hosten Inorganica Chimica Acta, 471, 257-264 (2018)
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66. Reaction of non-symmetric Schiff base metallo-ligand complexes possessing an oxime function with Ln ions J. P. Costes, F. Dahan, A. Dupuis, S. Shova, J. G. Tojal Inorganics, 6, Article 33/1-16 (2018)
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68. Biosynthesis of dextran by Weissella confusa and its in vitro functional characteristics I. Rosca, A. R. Petrovici, D. Peptanariu, A. Nicolescu, G. Dodi, M. Avadanei, I. C. Ivanov, A. International Journal of Biological Macromolecules, 107 (Part B), 1765-1772

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69.	Design, characterization and preliminary biological evaluation of new lignin-PLA biocomposites		International Journal of Biological Macromolecules, 114, 855-863 (2018)
70.	Structural and morphological evaluation of CNC reinforced PVA/starch biodegradable films	M. C. Popescu, B. I. Dogaru, M. Goanta, D. Timpu	International Journal of Biological Macromolecules, 116, 385-393 (2018)
71.	Investigation of the magnetic field effect upon interpolymeric complexes formation based on bovine serum albumin and poly(aspartic acid)	A. Diaconu, L. E. Nita, A. P. Chiriac, M. Butnaru	International Journal of Biological Macromolecules, 119, 974-981 (2018)
72.	Fabrication and characterization of composite cryobeads based on chitosan and starches-g-PAN as efficient and reusable biosorbents for removal of Cu ²⁺ , Ni ²⁺ and Co ²⁺ ions	E. S. Dragan, D. F. Apopei Loghin	International Journal of Biological Macromolecules, 120 (Part B), 1872-1883 (2018)
73.	Romanian coal reserves and strategic trends	N. Anastasiu, B. C. Simionescu, M. E. Popa, M. Mihai, R. D. Rusu, G. Predeanu	International Journal of Coal Geology, 198, 177-182 (2018)
74.	Low-molecular-weight sulfonated chitosan as template for anticoagulant nanoparticles	K. Heise, M. Hobirsch, L. Sacarescu, U. Maver, J. Hobisch, T. Reichelt, M. Sega, S. Fischer, S. Spirk	International Journal of Nanomedicine, 13, 4881-4894 (2018)
75.	Compatibilization strategies toward new polymer materials from re-/up-cycled plastics	M. Nechifor, F. Tanasa, C. A. Teaca, M. Zanoaga	International Journal of Polymer Analysis and Characterization, 23, 740-757 (2018)
76.	Dual-responsive hydrogels based on maleilated curdlan-graft-poly(N-isopropylacrylamide)	I. Popescu, I. M. Pelin, D. M. Suflet	International Journal of Polymeric Materials and Polymeric Biomaterials, 67, 1069-1079 (2018)
77.	Multilayer biopolymer/poly(ϵ -caprolactone)/polycation nanoparticles	G. David, I. Turin-Moleavin, L. E. Ursu, D. Peptanariu, D. Ailincăi	Iranian Polymer Journal, 27, 517-526 (2018)
78.	Optical properties of polyimides films treated by nanosecond pulsed electrical discharges in water	I. Sava, A. Kruth, J. F. Kolb, C. Miron	Japanese Journal of Applied Physics, 57, Article 0102BF/1-6 (2018)
79.	New insights into structural and magnetic properties of Ce doped ZnO nanoparticles	N. Fifere, A. Airinei, D. Timpu, A. Rotaru, L. Sacarescu, L. Ursu	Journal of Alloys and Compounds, 757, 60-69 (2018)
80.	Thermal decomposition study of some polyimide-polydimethylsiloxane copolymers	C. Hamciuc, G. Lisa, E. Hamciuc, N. Tudorachi	Journal of Analytical and Applied Pyrolysis, 129, 204-214 (2018)
81.	Thermal decomposition of polyimides containing phosphine-oxide units	I. Butnaru, C. D. Varganici, M. Pinteala, S. Lehner, M. Bruma, S. Gaan	Journal of Analytical and Applied Pyrolysis, 134, 254-264 (2018)
82.	Photografted polymeric networks based on N-isopropylacrylamide: Depth profiling by infrared spectroscopy	M. Avadanei	Journal of Applied Polymer Science, 135, Article 46048 (2018)
83.	Biodegradation of pyridine-based polyether polyurethanes by the <i>Alternaria tenuissima</i> fungus	S. Oprea, V. O. Potolinca, P. Grădinariu, V. Oprea	Journal of Applied Polymer Science, 135, Article 46096 (2018)
84.	Influence of Laponite RD on the properties of poly(vinyl alcohol) hydrogels	S. Morariu, M. Bercea, C. E. Brunchi	Journal of Applied Polymer Science, 135,

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85.	Ecofriendly wet-white leather vs. conventional tanned wet-blue leather. A photochemical approach	L. Rosu, C. D. Varganici, A. M. Crudu, D. Rosu, A. Bele	Journal of Cleaner Production, 17, 708-720 (2018)
86.	New opportunities to valorize biomass wastes into green materials. II. Behaviour to accelerated weathering	I. Spiridon, R. N. Darie-Nita, A. Bele	Journal of Cleaner Production, 172, 2567-2575 (2018)
87.	Homo- and heterometallic complexes constructed from hexafluoroacetylacetonato and Schiff base complexes as building blocks	M. I. Mocanu, S. Shova, F. Lloret, M. Julve, M. Andruh	Journal of Coordination Chemistry, 71, 693-706 (2018)
88.	New cryogels based on polymers and zeolitic L for controlled Enalapril maleate release	A. M. Ipate, C. Hamciuc, Y. Kalvachev, S. Gherman, L. Ochiuz	Journal of Drug Delivery Science and Technology, 44, 505-512 (2018)
89.	Thermomechanical and dielectric properties of novel pyridine-based polyethylene urea elastomers	S. Oprea, V. O. Potolinca	Journal of Elastomers and Plastics, 50, 276-292 (2018)
90.	Growth and characterization of TiO ₂ nanotube arrays under dynamic anodization. Photocatalytic activity	C. T. Teodorescu-Soare, C. Catrinescu, M. Dobromir, G. Stoian, A. Arvinte, D. Luca	Journal of Electroanalytical Chemistry, 823, 388-396 (2018)
91.	Electrochemical codeposition of silver-gold nanoparticles on CNT-based electrode and their performance in electroanalysis of dopamine	A. Arvinte, I. A. Crudu, F. Doroftei, D. Timpu, M. Pintea	Journal of Electroanalytical Chemistry, 829, 184-193 (2018)
92.	Removal of the commercial pesticides Novadim Progress, Bordeaux mixture and Karate Zeon by pullulan derivatives based flocculants	L. Ghimici, M. Constantin	Journal of Environmental Management, 218, 31-38 (2018)
93.	Metal content and crude polysaccharide characterization of selected mushrooms growing in Romania	D. E. Zavastin, G. Biliuta, G. Dodi, A. M. Maxim, G. Lisa, S. P. Gherman, I. G. Breaban, A. Miron, S. Coseri	Journal of Food Composition and Analysis, 67, 149-158 (2018)
94.	Assessment of chemicals released in the marine environment by dielectric elastomer useful as active elements in wave energy harvesters	M. F. Zaltariov, A. Bele, L. Vasiliu, L. Gradinaru, N. Vornicu, C. Racles, M. Cazacu	Journal of Hazardous Materials, 341, 390-403 (2018)
95.	Improved physico-chemical properties of mesoporous carbon by functionalization with aminopropyl-polydimethylsiloxane (AP-PDMS)	M. E. Fortuna, M. Ignat, M. Asandulesa, R. Rotaru, L. Pricop, V. Harabagiu	Journal of Inorganic and Organometallic Polymers and Materials, 28, 2275-2287 (2018)
96.	Steady state and time resolved fluorescence studies of new indolizine derivatives with phenanthroline skeleton	A. Airinei, R. Tigoianu, R. Danac, C. M. Al Matarneh, D. L. Isac	Journal of Luminescence, 199, 6-12 (2018)
97.	Heteronuclear {TbxEu1-x} furoate 1D polymers presenting luminescent properties and SMM behavior	E. Bartolome, J. Bartolome, A. Arauzo, J. Luzon, R. Cases, S. Fuertes, V. Sicilia, A. I. Sanchez-Cano, J. Aporta, S. Melnic, D. Prodius, S. Shova	Journal of Materials Chemistry C, 6, 5286-5299 (2018)
98.	Viscosity estimation of Al ₂ O ₃ , SiO ₂ nanofluids and their hybrid. An experimental study	G. M. Moldoveanu, C. Ibanescu, M. Danu, A. A. Minea	Journal of Molecular Liquids, 253, 188-196 (2018)
99.	Phenothiazine based nanocrystals with enhanced solid state emission	A. Bejan, L. Marin	Journal of Molecular Liquids, 265, 299-306 (2018)

100.	Multiple bioresponsive polymer dispersed liquid crystal composites for sensing applications	D. Ailincai, D. Pamfil, L. Marin	Journal of Molecular Liquids, 272, 572-582 (2018)
101.	Crystalline smectic E phase revisited in case of symmetrical dibenzo-18-crown-6-ether azomethine dimers	V. Cozan, R. Ardeleanu, A. Airinei, D. Timpu	Journal of Molecular Structure, 1156, 22-29 (2018)
102.	4'-(2H-tetrazol-5-yl)-[1,1'-bisphenyl]-4-carboxylic acid: Synthetic approaches, single crystal X-ray structures and antimicrobial activity of intermediates	R. Ardeleanu, A. Dascalu, S. Shova, A. Nicolescu, I. Rosca, B. I. Bratanovici, V. Lozan, G. Roman	Journal of Molecular Structure, 1173, 63-71 (2018)
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