

Lucio Melone

List of Publications by Year in descending order

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56
papers

1,859
citations

236925

25
h-index

265206

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all docs

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docs citations

59
times ranked

2318
citing authors

#	ARTICLE	IF	CITATIONS
1	3D Bioprinting of Pectin-Cellulose Nanofibers Multicomponent Bioinks. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 732689.	4.1	19
2	Eco-design of nanostructured cellulose sponges for sea-water decontamination from heavy metal ions. <i>Journal of Cleaner Production</i> , 2020, 246, 119009.	9.3	46
3	TEMPO-Nanocellulose/Ca ²⁺ Hydrogels: Ibuprofen Drug Diffusion and In Vitro Cytocompatibility. <i>Materials</i> , 2020, 13, 183.	2.9	37
4	Cyclodextrin-Based Organic Radical Contrast Agents for in vivo Imaging of Gliomas. <i>ChemPlusChem</i> , 2020, 85, 1171-1178.	2.8	3
5	Naked-Eye Heterogeneous Sensing of Fluoride Ions by Co-Polymeric Nanosponge Systems Comprising Aromatic-Imide-Functionalized Nanocellulose and Branched Polyethyleneimine. <i>ChemPlusChem</i> , 2019, 84, 1512-1518.	2.8	19
6	Cross-linked cellulose nano-sponges: a small angle neutron scattering (SANS) study. <i>Cellulose</i> , 2019, 26, 9005-9019.	4.9	26
7	Molecular Dynamics and Hyperpolarization Performance of Deuterated β -Cyclodextrins. <i>Journal of Physical Chemistry B</i> , 2019, 123, 3731-3737.	2.6	1
8	Proton and Carbon-13 Dynamic Nuclear Polarization of Methylated β -Cyclodextrins. <i>Journal of Physical Chemistry B</i> , 2018, 122, 1836-1845.	2.6	6
9	Microwave-assisted synthesis of TEMPO-labeled hydrogels traceable with MRI. <i>Soft Matter</i> , 2018, 14, 558-565.	2.7	15
10	Tandem Protocol for the Synthesis of α -Acyl Benzothiadiazine 1,1-Dioxides. <i>ChemistrySelect</i> , 2018, 3, 277-283.	1.5	11
11	Copper-Catalyzed Simultaneous Activation of C-H and N-H Bonds: Three-Component One-Pot Cascade Synthesis of Multi-Substituted Imidazoles. <i>Synthesis</i> , 2018, 50, 361-370.	2.3	21
12	Structural and molecular response in cyclodextrin-based pH-sensitive hydrogels by the joint use of Brillouin, UV Raman and Small Angle Neutron Scattering techniques. <i>Journal of Molecular Liquids</i> , 2018, 271, 738-746.	4.9	6
13	Environmentally Sustainable and Ecosafe Polysaccharide-Based Materials for Water Nano-Treatment: An Eco-Design Study. <i>Materials</i> , 2018, 11, 1228.	2.9	43
14	TEMPO-mediated oxidation of polysaccharides: An ongoing story. <i>Carbohydrate Polymers</i> , 2017, 165, 71-85.	10.2	122
15	SANS investigation of water adsorption in tunable cyclodextrin-based polymeric hydrogels. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6022-6029.	2.8	15
16	Mechanical and Drug Release Properties of Sponges from Cross-Linked Cellulose Nanofibers. <i>ChemPlusChem</i> , 2017, 82, 848-858.	2.8	45
17	Lipophilic N-Hydroxyphthalimide Catalysts for the Aerobic Oxidation of Cumene: Towards Solvent-Free Conditions and Back. <i>Chemistry - A European Journal</i> , 2017, 23, 10616-10625.	3.3	30
18	Dynamic Nuclear Polarization of β -Cyclodextrin Macromolecules. <i>Journal of Physical Chemistry B</i> , 2017, 121, 2584-2593.	2.6	5

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19	RGD-derivatized PEI-PEG copolymers: Influence of the degree of substitution on the targeting behavior. <i>Journal of Drug Delivery Science and Technology</i> , 2017, 37, 115-122.	3.0	13
20	An Efficient Synthesis of 1,2,4-Trisubstituted Imidazoles from Arylacetic Acids and N-Arylbenzamidines via Simultaneous C-H and N-H Bond Activation. <i>ChemistrySelect</i> , 2017, 2, 5409-5413.	1.5	6
21	Correlation between collective and molecular dynamics in pH-responsive cyclodextrin-based hydrogels. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22555-22563.	2.8	13
22	Tuning structural parameters for the optimization of drug delivery performance of cyclodextrin-based nanosponges. <i>Expert Opinion on Drug Delivery</i> , 2017, 14, 331-340.	5.0	46
23	Dynamics and interactions of ibuprofen in cyclodextrin nanosponges by solid-state NMR spectroscopy. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 182-194.	2.2	19
24	Vibrational signatures of the water behaviour upon confinement in nanoporous hydrogels. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 12252-12259.	2.8	10
25	Guest-matrix interactions affect the solvation of cyclodextrin-based polymeric hydrogels: a UV Raman scattering study. <i>Soft Matter</i> , 2016, 12, 8861-8868.	2.7	11
26	Transport Properties of Ibuprofen Encapsulated in Cyclodextrin Nanosponge Hydrogels: A Proton HR-MAS NMR Spectroscopy Study. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	7
27	N-Hydroxyphthalimide catalysts as bioactive pro-oxidants. <i>RSC Advances</i> , 2016, 6, 21749-21755.	3.6	3
28	An aerogel obtained from chemo-enzymatically oxidized fenugreek galactomannans as a versatile delivery system. <i>Carbohydrate Polymers</i> , 2016, 144, 353-361.	10.2	24
29	Surface-Functionalization of Nanostructured Cellulose Aerogels by Solid State Eumelanin Coating. <i>Biomacromolecules</i> , 2016, 17, 564-571.	5.4	45
30	TEMPO-Oxidized Cellulose Cross-Linked with Branched Polyethyleneimine: Nanostructured Adsorbent Sponges for Water Remediation. <i>ChemPlusChem</i> , 2015, 80, 1408-1415.	2.8	80
31	Functionalization of Cyclodextrins with N-Hydroxyphthalimide Moiety: A New Class of Supramolecular Pro-Oxidant Organocatalysts. <i>Molecules</i> , 2015, 20, 15881-15892.	3.8	13
32	Water and polymer dynamics in a model polysaccharide hydrogel: the role of hydrophobic/hydrophilic balance. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 963-971.	2.8	27
33	Toward an understanding of the thermosensitive behaviour of pH-responsive hydrogels based on cyclodextrins. <i>Soft Matter</i> , 2015, 11, 5862-5871.	2.7	18
34	Combining Raman and infrared spectroscopy as a powerful tool for the structural elucidation of cyclodextrin-based polymeric hydrogels. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 10274-10282.	2.8	16
35	Dip in colorimetric fluoride sensing by a chemically engineered polymeric cellulose/bPEI conjugate in the solid state. <i>RSC Advances</i> , 2015, 5, 83197-83205.	3.6	21
36	Probing the molecular connectivity of water confined in polymer hydrogels. <i>Journal of Chemical Physics</i> , 2015, 142, 014901.	3.0	13

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37	Effective magnetic moment in cyclodextrinâ€polynitroxides: potential supramolecular vectors for magnetic resonance imaging. <i>RSC Advances</i> , 2015, 5, 76133-76140.	3.6	19
38	Anomalous diffusion of Ibuprofen in cyclodextrin nanosponge hydrogels: an HRMAS NMR study. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 2715-2723.	2.2	59
39	Is it possible to implement Nâ€hydroxyphthalimide homogeneous catalysis for industrial applications? A case study of cumene aerobic oxidation. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 1370-1378.	3.2	50
40	Gel-sol evolution of cyclodextrin-based nanosponges: role of the macrocycle size. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2014, 80, 77-83.	1.6	15
41	Hydrogen-bond dynamics of water confined in cyclodextrin nanosponges hydrogel. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2014, 80, 69-75.	1.6	23
42	Direct evidence of gelâ€sol transition in cyclodextrin-based hydrogels as revealed by FTIR-ATR spectroscopy. <i>Soft Matter</i> , 2014, 10, 2320-2326.	2.7	29
43	Aerobic Oxidation of Alkylaromatics using a Lipophilic <i>N</i> -Hydroxyphthalimide: Overcoming the Industrial Limit of Catalyst Solubility. <i>ChemSusChem</i> , 2014, 7, 2695-2703.	6.8	39
44	Glass-like dynamics of new cross-linked polymeric systems: Behavior of the Boson peak. <i>Journal of Non-Crystalline Solids</i> , 2014, 401, 73-77.	3.1	17
45	Synthesis and characterization of a hyper-branched water-soluble β^2 -cyclodextrin polymer. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 2586-2593.	2.2	28
46	Sunlight Induced Oxidative Photoactivation of <i>N</i> -Hydroxyphthalimide Mediated by Naphthalene Imides. <i>Advanced Synthesis and Catalysis</i> , 2013, 355, 3210-3220.	4.3	34
47	Ceramic aerogels from TEMPO-oxidized cellulose nanofibre templates: Synthesis, characterization, and photocatalytic properties. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 261, 53-60.	3.9	61
48	Connection between the vibrational dynamics and the cross-linking properties in cyclodextrins-based polymers. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 1457-1462.	2.5	36
49	Metal-free aerobic oxidations mediated by <i>N</i> -hydroxyphthalimide. A concise review. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 1296-1310.	2.2	138
50	Selective Monoetherification of 1,4-Hydroquinone Promoted by NaNO ₂ . <i>Current Organic Chemistry</i> , 2013, 17, 1108-1113.	1.6	12
51	O ₂ -Mediated Photocatalytic Functionalization of Organic Compounds: Recent Advances Towards Greener Synthetic Routes. <i>Current Organic Chemistry</i> , 2013, 17, 2406-2419.	1.6	11
52	Phase change material cellulosic composites for the cold storage of perishable products: From material preparation to computational evaluation. <i>Applied Energy</i> , 2012, 89, 339-346.	10.1	55
53	Selective catalytic aerobic oxidation of substituted ethylbenzenes under mild conditions. <i>Journal of Molecular Catalysis A</i> , 2012, 355, 155-160.	4.8	31
54	Titanium Oxide Antibacterial Surfaces in Biomedical Devices. <i>International Journal of Artificial Organs</i> , 2011, 34, 929-946.	1.4	219

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55	Hydroperoxidation of Tertiary Alkyaromatics Catalyzed By <i>N</i> -Hydroxyphthalimide and Aldehydes under Mild Conditions. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 147-154.	4.3	55
56	Surface functionalization of cotton cellulose with glycidyl methacrylate and its application for the adsorption of aromatic pollutants from wastewaters. <i>Journal of Hazardous Materials</i> , 2009, 170, 798-808.	12.4	60