Lucio Melone

List of Publications by Year
in descending order

56 papers	1,859 citations	236925 25 h-index	265206 42 g-index
59 all docs	59 docs citations	59 times ranked	2318 citing authors

#	Article	IF	Citations
1	Titanium Oxide Antibacterial Surfaces in Biomedical Devices. International Journal of Artificial Organs, 2011, 34, 929-946.	1.4	219
2	Metal-free aerobic oxidations mediated by N-hydroxyphthalimide. A concise review. Beilstein Journal of Organic Chemistry, 2013, 9, 1296-1310.	2.2	138
3	TEMPO-mediated oxidation of polysaccharides: An ongoing story. Carbohydrate Polymers, 2017, 165, 71-85.	10.2	122
4	TEMPOâ€Oxidized Cellulose Crossâ€Linked with Branched Polyethyleneimine: Nanostructured Adsorbent Sponges for Water Remediation. ChemPlusChem, 2015, 80, 1408-1415.	2.8	80
5	Ceramic aerogels from TEMPO-oxidized cellulose nanofibre templates: Synthesis, characterization, and photocatalytic properties. Journal of Photochemistry and Photobiology A: Chemistry, 2013, 261, 53-60.	3.9	61
6	Surface functionalization of cotton cellulose with glycidyl methacrylate and its application for the adsorption of aromatic pollutants from wastewaters. Journal of Hazardous Materials, 2009, 170, 798-808.	12.4	60
7	Anomalous diffusion of Ibuprofen in cyclodextrin nanosponge hydrogels: an HRMAS NMR study. Beilstein Journal of Organic Chemistry, 2014, 10, 2715-2723.	2.2	59
8	Hydroperoxidation of Tertiary Alkylaromatics Catalyzed By Nâ€Hydroxyphthalimide and Aldehydes under Mild Conditions. Advanced Synthesis and Catalysis, 2011, 353, 147-154.	4.3	55
9	Phase change material cellulosic composites for the cold storage of perishable products: From material preparation to computational evaluation. Applied Energy, 2012, 89, 339-346.	10.1	55
10	Is it possible to implement Nâ€hydroxyphthalimide homogeneous catalysis for industrial applications? A case study of cumene aerobic oxidation. Journal of Chemical Technology and Biotechnology, 2014, 89, 1370-1378.	3.2	50
11	Tuning structural parameters for the optimization of drug delivery performance of cyclodextrin-based nanosponges. Expert Opinion on Drug Delivery, 2017, 14, 331-340.	5.0	46
12	Eco-design of nanostructured cellulose sponges for sea-water decontamination from heavy metal ions. Journal of Cleaner Production, 2020, 246, 119009.	9.3	46
13	Surface-Functionalization of Nanostructured Cellulose Aerogels by Solid State Eumelanin Coating. Biomacromolecules, 2016, 17, 564-571.	5.4	45
14	Mechanical and Drug Release Properties of Sponges from Crossâ€linked Cellulose Nanofibers. ChemPlusChem, 2017, 82, 848-858.	2.8	45
15	Environmentally Sustainable and Ecosafe Polysaccharide-Based Materials for Water Nano-Treatment: An Eco-Design Study. Materials, 2018, 11, 1228.	2.9	43
16	Aerobic Oxidation of Alkylaromatics using a Lipophilic Nâ€Hydroxyphthalimide: Overcoming the Industrial Limit of Catalyst Solubility. ChemSusChem, 2014, 7, 2695-2703.	6.8	39
17	TEMPO-Nanocellulose/Ca2+ Hydrogels: Ibuprofen Drug Diffusion and In Vitro Cytocompatibility. Materials, 2020, 13, 183.	2.9	37
18	Connection between the vibrational dynamics and the crossâ€linking properties in cyclodextrinsâ€based polymers. Journal of Raman Spectroscopy, 2013, 44, 1457-1462.	2.5	36

#	Article	IF	Citations
19	Sunlight Induced Oxidative Photoactivation of Nâ€Hydroxyphthalimide Mediated by Naphthalene Imides. Advanced Synthesis and Catalysis, 2013, 355, 3210-3220.	4.3	34
20	Selective catalytic aerobic oxidation of substituted ethylbenzenes under mild conditions. Journal of Molecular Catalysis A, 2012, 355, 155-160.	4.8	31
21	Lipophilic Nâ€Hydroxyphthalimide Catalysts for the Aerobic Oxidation of Cumene: Towards Solventâ€Free Conditions and Back. Chemistry - A European Journal, 2017, 23, 10616-10625.	3.3	30
22	Direct evidence of gelâ€“sol transition in cyclodextrin-based hydrogels as revealed by FTIR-ATR spectroscopy. Soft Matter, 2014, 10, 2320-2326.	2.7	29
23	Synthesis and characterization of a hyper-branched water-soluble Î²-cyclodextrin polymer. Beilstein Journal of Organic Chemistry, 2014, 10, 2586-2593.	2.2	28
24	Water and polymer dynamics in a model polysaccharide hydrogel: the role of hydrophobic/hydrophilic balance. Physical Chemistry Chemical Physics, 2015, 17, 963-971.	2.8	27
25	Cross-linked cellulose nano-sponges: a small angle neutron scattering (SANS) study. Cellulose, 2019, 26, 9005-9019.	4.9	26
26	An aerogel obtained from chemo-enzymatically oxidized fenugreek galactomannans as a versatile delivery system. Carbohydrate Polymers, 2016, 144, 353-361.	10.2	24
27	Hydrogen-bond dynamics of water confined in cyclodextrin nanosponges hydrogel. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2014, 80, 69-75.	1.6	23
28	Dip in colorimetric fluoride sensing by a chemically engineered polymeric cellulose/bPEI conjugate in the solid state. RSC Advances, 2015, 5, 83197-83205.	3.6	21
29	Copper-Catalyzed Simultaneous Activation of Câ€“H and Nâ€“H Bonds: Three-Component One-Pot Cascade Synthesis of MultiÂsubstituted Imidazoles. Synthesis, 2018, 50, 361-370.	2.3	21
30	Effective magnetic moment in cyclodextrinâ€“polynitroxides: potential supramolecular vectors for magnetic resonance imaging. RSC Advances, 2015, 5, 76133-76140.	3.6	19
31	Dynamics and interactions of ibuprofen in cyclodextrin nanosponges by solid-state NMR spectroscopy. Beilstein Journal of Organic Chemistry, 2017, 13, 182-194.	2.2	19
32	Nakedâ€Eye Heterogeneous Sensing of Fluoride Ions by Coâ€Polymeric Nanosponge Systems Comprising Aromaticâ€Imideâ€Functionalized Nanocellulose and Branched Polyethyleneimine. ChemPlusChem, 2019, 84, 1512-1518.	2.8	19
33	3D Bioprinting of Pectin-Cellulose Nanofibers Multicomponent Bioinks. Frontiers in Bioengineering and Biotechnology, 2021, 9, 732689.	4.1	19
34	Toward an understanding of the thermosensitive behaviour of pH-responsive hydrogels based on cyclodextrins. Soft Matter, 2015, 11, 5862-5871.	2.7	18
35	Glass-like dynamics of new cross-linked polymeric systems: Behavior of the Boson peak. Journal of Non-Crystalline Solids, 2014, 401, 73-77.	3.1	17
36	Combining Raman and infrared spectroscopy as a powerful tool for the structural elucidation of cyclodextrin-based polymeric hydrogels. Physical Chemistry Chemical Physics, 2015, 17, 10274-10282.	2.8	16

#	Article	IF	Citations
37	Gel-sol evolution of cyclodextrin-based nanosponges: role of the macrocycle size. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2014, 80, 77-83.	1.6	15
38	SANS investigation of water adsorption in tunable cyclodextrin-based polymeric hydrogels. Physical Chemistry Chemical Physics, 2017, 19, 6022-6029.	2.8	15
39	Microwave-assisted synthesis of TEMPO-labeled hydrogels traceable with MRI. Soft Matter, 2018, 14, 558-565.	2.7	15
40	Functionalization of Cyclodextrins with N-Hydroxyphthalimide Moiety: A New Class of Supramolecular Pro-Oxidant Organocatalysts. Molecules, 2015, 20, 15881-15892.	3.8	13
41	Probing the molecular connectivity of water confined in polymer hydrogels. Journal of Chemical Physics, 2015, 142, 014901.	3.0	13
42	RGD-derivatized PEI-PEG copolymers: Influence of the degree of substitution on the targeting behavior. Journal of Drug Delivery Science and Technology, 2017, 37, 115-122.	3.0	13
43	Correlation between collective and molecular dynamics in pH-responsive cyclodextrin-based hydrogels. Physical Chemistry Chemical Physics, 2017, 19, 22555-22563.	2.8	13
44	Selective Monoetherification of 1,4-Hydroquinone Promoted by NaNO2. Current Organic Chemistry, 2013, 17, 1108-1113.	1.6	12
45	Guestâ€“matrix interactions affect the solvation of cyclodextrin-based polymeric hydrogels: a UV Raman scattering study. Soft Matter, 2016, 12, 8861-8868.	2.7	11
46	Tandem Protocol for the Synthesis of 3â€Acyl Benzothiadiazine 1,1â€Dioxides. ChemistrySelect, 2018, 3, 277-283.	1.5	11
47	O₂-Mediated Photocatalytic Functionalization of Organic Compounds: Recent Advances Towards Greener Synthetic Routes. Current Organic Chemistry, 2013, 17, 2406-2419.	1.6	11
48	Vibrational signatures of the water behaviour upon confinement in nanoporous hydrogels. Physical Chemistry Chemical Physics, 2016, 18, 12252-12259.	2.8	10
49	Transport Properties of Ibuprofen Encapsulated in Cyclodextrin Nanosponge Hydrogels: A Proton HR-MAS NMR Spectroscopy Study. Journal of Visualized Experiments, 2016, , .	0.3	7
50	An Efficient Synthesis of 1,2,4-Trisubstituted Imidazoles from Arylacetic Acids and N -Arylbenzamidines via Simultaneous C-H and N-H Bond Activation. ChemistrySelect, 2017, 2, 5409-5413.	1.5	6
51	Proton and Carbon-13 Dynamic Nuclear Polarization of Methylated Î²-Cyclodextrins. Journal of Physical Chemistry B, 2018, 122, 1836-1845.	2.6	6
52	Structural and molecular response in cyclodextrin-based pH-sensitive hydrogels by the joint use of Brillouin, UV Raman and Small Angle Neutron Scattering techniques. Journal of Molecular Liquids, 2018, 271, 738-746.	4.9	6
53	Dynamic Nuclear Polarization of Î²-Cyclodextrin Macromolecules. Journal of Physical Chemistry B, 2017, 121, 2584-2593.	2.6	5
54	N-Hydroxyphthalimide catalysts as bioactive pro-oxidants. RSC Advances, 2016, 6, 21749-21755.	3.6	3

#	Article	IF	Citations
55	Cyclodextrinâ€Based Organic Radical Contrast Agents for inâ€...vivo Imaging of Gliomas. ChemPlusChem, 2020, 85, 1171-1178.	2.8	3
56	Molecular Dynamics and Hyperpolarization Performance of Deuterated Î²-Cyclodextrins. Journal of Physical Chemistry B, 2019, 123, 3731-3737.	2.6	1