Catherine C Santini

List of Publications by Year
in descending order

39	1,116	471509 17	395702 33
papers	citations	h-index	g-index

42	42	42	1353
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Organized 3D-alkyl imidazolium ionic liquids could be used to control the size of in situ generated ruthenium nanoparticles?. Journal of Materials Chemistry, 2009, 19, 3624.	6.7	131
2	Influence of the self-organization of ionic liquids on the size of ruthenium nanoparticles: effect of the temperature and stirring. Journal of Materials Chemistry, 2007, 17, 3290.	6.7	125
3	Imidazolium ionic liquids as promoters and stabilising agents for the preparation of metal(0) nanoparticles by reduction and decomposition of organometallic complexes. Nanoscale, 2010, 2, 2601.	5.6	80
4	Targeting adequate thermal stability and fire safety in selecting ionic liquid-based electrolytes for energy storage. Physical Chemistry Chemical Physics, 2014, 16, 1967-1976.	2.8	75
5	Ionic liquid-based electrolytes for lithium-ion batteries: review of performances of various electrode systems. Journal of Applied Electrochemistry, 2016, 46, 149-155.	2.9	64
6	Highâ€Performance Porous Ionic Liquids for Lowâ€Pressure CO₂ Capture**. Angewandte Chemie - International Edition, 2021, 60, 12876-12882.	13.8	63
7	Olefin hydrogenation by ruthenium nanoparticles in ionic liquid media: Does size matter?. Journal of Catalysis, 2010, 275, 99-107.	6.2	60
8	Interaction Energies of Ionic Liquids with Metallic Nanoparticles: Solvation and Stabilization Effects. Journal of Physical Chemistry C, 2013, 117, 3537-3547.	3.1	53
9	A silver and water free metathesis reaction: a route to ionic liquids. Green Chemistry, 2013, 15, 1341.	9.0	47
10	EIS and XPS Investigation on SEI Layer Formation during First Discharge on Graphite Electrode with a Vinylene Carbonate Doped Imidazolium Based Ionic Liquid Electrolyte. Journal of Physical Chemistry C, 2018, 122, 18223-18230.	3.1	41
11	Ruthenium Nanoparticles in Ionic Liquids â€“ A Saga. Current Organic Chemistry, 2013, 17, 414-429.	1.6	39
12	Imidazolium Based Ionic Liquid Electrolytes for Li-Ion Secondary Batteries Based on Graphite and LiFePO₄. Journal of the Electrochemical Society, 2013, 160, A66-A69.	2.9	37
13	How do Physicalâ^'Chemical Parameters Influence the Catalytic Hydrogenation of 1,3-Cyclohexadiene in Ionic Liquids?. Journal of Physical Chemistry B, 2010, 114, 8156-8165.	2.6	31
14	Electrochemical Impedance Spectroscopy and X-ray Photoelectron Spectroscopy Study of Lithium Metal Surface Aging in Imidazolium-Based Ionic Liquid Electrolytes Performed at Open-Circuit Voltage. ACS Applied Materials & Interfaces, 2019, 11, 21955-21964.	8.0	29
15	Investigation of Li+ Cation Coordination and Transportation, by Molecular Modeling and NMR Studies, in a LiNTf2-Doped Ionic Liquidâ€“Vinylene Carbonate Mixture. Journal of Physical Chemistry B, 2018, 122, 8560-8569.	2.6	23
16	Integrated, one-pot carbon capture and utilisation using porous ionic liquids. Chemical Communications, 2021, 57, 7922-7925.	4.1	23
17	Spectral deconvolution in electrophoretic NMR to investigate the migration of neutral molecules in electrolytes. Magnetic Resonance in Chemistry, 2020, 58, 271-279.	1.9	21
18	Bimetallic Ruâ€“Cu Nanoparticles Synthesized in Ionic Liquids: Kinetically Controlled Size and Structure. Topics in Catalysis, 2013, 56, 1192-1198.	2.8	17

#	Article	IF	Citations
19	Study on Cycling Performance and Electrochemical Stability of 1-Hexyl-3-methylimidazolium Bis(trifluoromethanesulfonyl)imide Assembled with Li₄Ti₅O₁₂and LiFePO₄at 333 K. Journal of the Electrochemical Society, 2013, 160, A781-A785.	2.9	17
20	Thermal decomposition of lignocellulosic biomass in the presence of acid catalysts. Bioresource Technology, 2013, 148, 255-260.	9.6	16
21	Removal of Volatile Organic Compounds from Bulk and Emulsion Polymers: A Comprehensive Survey of the Existing Techniques. Industrial & Engineering Chemistry Research, 2019, 58, 11601-11623.	3.7	16
22	Thermal stability of imidazolium-based ionic liquids. French-Ukrainian Journal of Chemistry, 2016, 4, 51-64.	0.4	15
23	Ru-core/Cu-shell bimetallic nanoparticles with controlled size formed in one-pot synthesis. Nanoscale, 2014, 6, 14856-14862.	5.6	13
24	Operando XPS: A Novel Approach for Probing the Lithium/Electrolyte Interphase Dynamic Evolution. Journal of Physical Chemistry A, 2021, 125, 1069-1081.	2.5	12
25	Monitoring pine wood thermolysis under hydrogen atmosphere by in situ and ex situ techniques. Journal of Analytical and Applied Pyrolysis, 2013, 100, 81-87.	5.5	11
26	Direct thermocatalytic transformation of pine wood into low oxygenated biofuel. Green Chemistry, 2014, 16, 3031-3038.	9.0	9
27	Direct thermo-catalytic transformation of pine wood into low oxygenated fuel: Influence of the support. Catalysis Today, 2015, 255, 75-79.	4.4	9
28	Characterization of LTO//NMC Batteries Containing Ionic Liquid or Carbonate Electrolytes after Cycling and Overcharge. Journal of the Electrochemical Society, 2015, 162, A1008-A1013.	2.9	9
29	Multifunctional heterogeneous catalyst for one step transformation of lignocellulosic biomass into low oxygenated hydrocarbons. Applied Catalysis A: General, 2015, 495, 162-172.	4.3	7
30	From industrial black liquor to pure phenolic compounds: A combination of catalytic conversion with ionic liquids extraction. Applied Catalysis A: General, 2015, 502, 230-238.	4.3	7
31	Highâ€Performance Porous Ionic Liquids for Lowâ€Pressure CO₂ Capture**. Angewandte Chemie, 2021, 133, 12986-12992.	2.0	6
32	Design of plurimetallic catalysts for solid biomass conversion: Batch versus continuous reactors. Fuel Processing Technology, 2016, 142, 192-200.	7.2	2
33	New Interpretation of X-ray Photoelectron Spectroscopy of Imidazolium Ionic Liquid Electrolytes Based on Ionic Transport Analyses. Journal of Physical Chemistry B, 2020, 124, 7625-7635.	2.6	2
34	Study of the Parameters Impacting the Photocatalytic Reduction of Carbon Dioxide in Ionic Liquids. ChemPhotoChem, 2021, 5, 721-726.	3.0	2
35	Study of the Parameters Impacting the Photocatalytic Reduction of Carbon Dioxide in Ionic Liquids. ChemPhotoChem, 2021, 5, 692-693.	3.0	2
36	An Efficient, Versatile, and Safe Access to Supported Metallic Nanoparticles on Porous Silicon with Ionic Liquids. International Journal of Molecular Sciences, 2016, 17, 876.	4.1	1

#	Article	IF	Citations
37	Development in the ionic liquid based electrolytes for lithium-ion batteries. , 2017, , .		1
38	Physicochemical and electrochemical properties of imidazolium ionic liquids: Cycling performance of low cost lithium ion batteries with LiFePO4 cathode. Materials Research Society Symposia Proceedings, 2013, 1575, 1.	0.1	0
39	Co-precipitation of MnO and Cu in an ionic liquid as a first step toward self-formed barrier layers. New Journal of Chemistry, 2020, 44, 265-272.	2.8	0