

Mega Kar

List of Publications by Year in descending order

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39
papers

2,674
citations

218677

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330143

37
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58
all docs

58
docs citations

58
times ranked

4289
citing authors

#	ARTICLE	IF	CITATIONS
1	Ionic liquids for renewable thermal energy storage – a perspective. <i>Green Chemistry</i> , 2022, 24, 102-117.	9.0	34
2	Emergence of nonaqueous electrolytes for rechargeable zinc batteries. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021, 28, 100426.	5.9	8
3	Simple route to lithium dendrite prevention for long cycle-life lithium metal batteries. <i>Applied Materials Today</i> , 2021, 23, 101062.	4.3	8
4	Guanidinium Organic Salts as Phase-Change Materials for Renewable Energy Storage. <i>ChemSusChem</i> , 2021, 14, 2757-2762.	6.8	14
5	Lithium Borate Ester Salts for Electrolyte Application in Next-Generation High Voltage Lithium Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2101422.	19.5	34
6	Probing the secrets of hydrogen bonding in organic salt phase change materials: the origins of a high enthalpy of fusion. <i>Materials Advances</i> , 2021, 2, 7650-7661.	5.4	13
7	Pyrazolium Phase-Change Materials for Solar-Thermal Energy Storage. <i>ChemSusChem</i> , 2020, 13, 159-164.	6.8	29
8	Role of Hydrogen Bonding in Phase Change Materials. <i>Crystal Growth and Design</i> , 2020, 20, 1285-1291.	3.0	24
9	Influence of ion structure on thermal runaway behaviour of aprotic and protic ionic liquids. <i>Chemical Communications</i> , 2020, 56, 11819-11822.	4.1	2
10	Lewis Acid-Base Interactions between Polysulfides and Boehmite Enables Stable Room-Temperature Sodium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2005669.	14.9	40
11	Ultrathin Lithium Aluminate Nanoflake-Inlaid Sulfur as a Cathode Material for Lithium-Sulfur Batteries with High Areal Capacity. <i>ACS Applied Energy Materials</i> , 2020, 3, 5637-5645.	5.1	10
12	Ein Hybrid-Anion für ionische Flüssigkeiten und Batterieelektrolytanwendungen: Halb Triflamid, halb Carbonat. <i>Angewandte Chemie</i> , 2019, 131, 4435-4439.	2.0	0
13	A Hybrid Anion for Ionic Liquid and Battery Electrolyte Applications: Half Triflamide, Half Carbonate. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4390-4394.	13.8	16
14	Novel and versatile room temperature ionic liquids for energy storage. <i>Energy and Environmental Science</i> , 2019, 12, 566-571.	30.8	75
15	Mg Cathode Materials and Electrolytes for Rechargeable Mg Batteries: A Review. <i>Batteries and Supercaps</i> , 2019, 2, 115-127.	4.7	102
16	Kenneth R. Seddon – A Rock Star of Ionic Liquids. <i>Australian Journal of Chemistry</i> , 2019, 72, 1.	0.9	0
17	Three-Dimensionally Reinforced Freestanding Cathode for High-Energy Room-Temperature Sodium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14101-14109.	8.0	55
18	Ionic Liquids – Further Progress on the Fundamental Issues. <i>Australian Journal of Chemistry</i> , 2019, 72, 3.	0.9	52

#	ARTICLE	IF	CITATIONS
19	Ionic liquid/tetraglyme hybrid Mg[TFSI] ₂ electrolytes for rechargeable Mg batteries. <i>Green Energy and Environment</i> , 2019, 4, 146-153.	8.7	33
20	The effect of cation chemistry on physicochemical behaviour of superconcentrated NaFSI based ionic liquid electrolytes and the implications for Na battery performance. <i>Electrochimica Acta</i> , 2018, 268, 94-100.	5.2	31
21	Supported Ionic Liquid Gel Membrane Electrolytes for Flexible Supercapacitors. <i>Advanced Energy Materials</i> , 2018, 8, 1702702.	19.5	90
22	Stability enhancing ionic liquid hybrid electrolyte for NVP@C cathode based sodium batteries. <i>Sustainable Energy and Fuels</i> , 2018, 2, 566-576.	4.9	37
23	Ionic liquid electrolytes supporting high energy density in sodium-ion batteries based on sodium vanadium phosphate composites. <i>Chemical Communications</i> , 2018, 54, 3500-3503.	4.1	31
24	Electrochemical cycling of Mg in Mg[TFSI] ₂ /tetraglyme electrolytes. <i>Electrochemistry Communications</i> , 2017, 78, 29-32.	4.7	64
25	Enhanced CO ₂ uptake by intramolecular proton transfer reactions in amino-functionalized pyridine-based ILs. <i>Chemical Communications</i> , 2017, 53, 5950-5953.	4.1	31
26	Electro-synthesis of ammonia from nitrogen at ambient temperature and pressure in ionic liquids. <i>Energy and Environmental Science</i> , 2017, 10, 2516-2520.	30.8	497
27	Effect of mixed anions on the physicochemical properties of a sodium containing alkoxyammonium ionic liquid electrolyte. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 17461-17468.	2.8	45
28	Task-specific thioglycolate ionic liquids for heavy metal extraction: Synthesis, extraction efficacies and recycling properties. <i>Journal of Hazardous Materials</i> , 2017, 324, 241-249.	12.4	82
29	New dimensions in salt-solvent mixtures: a 4th evolution of ionic liquids. <i>Faraday Discussions</i> , 2017, 206, 9-28.	3.2	96
30	Measure and control: molecular management is a key to the Sustainable! <i>Green Chemistry</i> , 2016, 18, 5689-5692.	9.0	7
31	Ion Dynamics in a Mixed-Cation Alkoxy-Ammonium Ionic Liquid Electrolyte for Sodium Device Applications. <i>ChemPhysChem</i> , 2016, 17, 3187-3195.	2.1	43
32	Ionic liquids and their solid-state analogues as materials for energy generation and storage. <i>Nature Reviews Materials</i> , 2016, 1, .	48.7	511
33	Stable zinc cycling in novel alkoxy-ammonium based ionic liquid electrolytes. <i>Electrochimica Acta</i> , 2016, 188, 461-471.	5.2	48
34	Ionic liquid electrolytes for reversible magnesium electrochemistry. <i>Chemical Communications</i> , 2016, 52, 4033-4036.	4.1	61
35	Reduction of oxygen in a trialkoxy ammonium-based ionic liquid and the role of water. <i>Electrochimica Acta</i> , 2016, 196, 727-734.	5.2	8
36	Ionic liquid electrolytes as a platform for rechargeable metal-air batteries: a perspective. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 18658-18674.	2.8	128

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37	Exploring zinc coordination in novel zinc battery electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10816.	2.8	27
38	Chelating ionic liquids for reversible zinc electrochemistry. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7191.	2.8	76
39	Lithium doped N,N-dimethyl pyrrolidinium tetrafluoroborate organic ionic plastic crystal electrolytes for solid state lithium batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 10171.	6.7	69