Mega Kar

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9540040/publications.pdf

Version: 2024-02-01

39 papers	2,674 citations	218677 26 h-index	330143 37 g-index
58 all docs	58 docs citations	58 times ranked	4289 citing authors

#	Article	IF	Citations
1	Ionic liquids and their solid-state analogues as materials for energy generation and storage. Nature Reviews Materials, 2016, 1, .	48.7	511
2	Electro-synthesis of ammonia from nitrogen at ambient temperature and pressure in ionic liquids. Energy and Environmental Science, 2017, 10, 2516-2520.	30.8	497
3	Ionic liquid electrolytes as a platform for rechargeable metalâ€“air batteries: a perspective. Physical Chemistry Chemical Physics, 2014, 16, 18658-18674.	2.8	128
4	Mg Cathode Materials and Electrolytes for Rechargeable Mg Batteries: A Review. Batteries and Supercaps, 2019, 2, 115-127.	4.7	102
5	New dimensions in saltâ€“solvent mixtures: a 4th evolution of ionic liquids. Faraday Discussions, 2017, 206, 9-28.	3.2	96
6	Supported Ionic Liquid Gel Membrane Electrolytes for Flexible Supercapacitors. Advanced Energy Materials, 2018, 8, 1702702.	19.5	90
7	Task-specific thioglycolate ionic liquids for heavy metal extraction: Synthesis, extraction efficacies and recycling properties. Journal of Hazardous Materials, 2017, 324, 241-249.	12.4	82
8	Chelating ionic liquids for reversible zinc electrochemistry. Physical Chemistry Chemical Physics, 2013, 15, 7191.	2.8	76
9	Novel and versatile room temperature ionic liquids for energy storage. Energy and Environmental Science, 2019, 12, 566-571.	30.8	75
10	Lithium doped N,N-dimethyl pyrrolidinium tetrafluoroborate organic ionic plastic crystal electrolytes for solid state lithium batteries. Journal of Materials Chemistry, 2011, 21, 10171.	6.7	69
11	Electrochemical cycling of Mg in Mg[TFSI] 2 /tetraglyme electrolytes. Electrochemistry Communications, 2017, 78, 29-32.	4.7	64
12	Ionic liquid electrolytes for reversible magnesium electrochemistry. Chemical Communications, 2016, 52, 4033-4036.	4.1	61
13	Three-Dimensionally Reinforced Freestanding Cathode for High-Energy Room-Temperature Sodiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2019, 11, 14101-14109.	8.0	55
14	Ionic Liquids â€“ Further Progress on the Fundamental Issues. Australian Journal of Chemistry, 2019, 72, 3.	0.9	52
15	Stable zinc cycling in novel alkoxy-ammonium based ionic liquid electrolytes. Electrochimica Acta, 2016, 188, 461-471.	5.2	48
16	Effect of mixed anions on the physicochemical properties of a sodium containing alkoxyammonium ionic liquid electrolyte. Physical Chemistry Chemical Physics, 2017, 19, 17461-17468.	2.8	45
17	Ion Dynamics in a Mixedâ€Cation Alkoxyâ€Ammonium Ionic Liquid Electrolyte for Sodium Device Applications. ChemPhysChem, 2016, 17, 3187-3195.	2.1	43
18	Lewis Acidâ€“Base Interactions between Polysulfides and Boehmite Enables Stable Roomâ€Temperature Sodiumâ€“Sulfur Batteries. Advanced Functional Materials, 2020, 30, 2005669.	14.9	40

#	Article	IF	Citations
19	Stability enhancing ionic liquid hybrid electrolyte for NVP@C cathode based sodium batteries. Sustainable Energy and Fuels, 2018, 2, 566-576.	4.9	37
20	Lithium Borate Ester Salts for Electrolyte Application in Nextâ€Generation High Voltage Lithium Batteries. Advanced Energy Materials, 2021, 11, 2101422.	19.5	34
21	Ionic liquids for renewable thermal energy storage â€“ a perspective. Green Chemistry, 2022, 24, 102-117.	9.0	34
22	Ionic liquid/tetraglyme hybrid Mg[TFSI]2 electrolytes for rechargeable MgÂbatteries. Green Energy and Environment, 2019, 4, 146-153.	8.7	33
23	Enhanced CO₂ uptake by intramolecular proton transfer reactions in amino-functionalized pyridine-based ILs. Chemical Communications, 2017, 53, 5950-5953.	4.1	31
24	The effect of cation chemistry on physicochemical behaviour of superconcentrated NaFSI based ionic liquid electrolytes and the implications for Na battery performance. Electrochimica Acta, 2018, 268, 94-100.	5.2	31
25	Ionic liquid electrolytes supporting high energy density in sodium-ion batteries based on sodium vanadium phosphate composites. Chemical Communications, 2018, 54, 3500-3503.	4.1	31
26	Pyrazolium Phaseâ€Change Materials for Solarâ€Thermal Energy Storage. ChemSusChem, 2020, 13, 159-164.	6.8	29
27	Exploring zinc coordination in novel zinc battery electrolytes. Physical Chemistry Chemical Physics, 2014, 16, 10816.	2.8	27
28	Role of Hydrogen Bonding in Phase Change Materials. Crystal Growth and Design, 2020, 20, 1285-1291.	3.0	24
29	A Hybrid Anion for Ionic Liquid and Battery Electrolyte Applications: Half Triflamide, Half Carbonate. Angewandte Chemie - International Edition, 2019, 58, 4390-4394.	13.8	16
30	Guanidinium Organic Salts as Phaseâ€Change Materials for Renewable Energy Storage. ChemSusChem, 2021, 14, 2757-2762.	6.8	14
31	Probing the secrets of hydrogen bonding in organic salt phase change materials: the origins of a high enthalpy of fusion. Materials Advances, 2021, 2, 7650-7661.	5.4	13
32	Ultrathin Lithium Aluminate Nanoflake-Inlaid Sulfur as a Cathode Material for Lithiumâ€“Sulfur Batteries with High Areal Capacity. ACS Applied Energy Materials, 2020, 3, 5637-5645.	5.1	10
33	Reduction of oxygen in a trialkoxy ammonium-based ionic liquid and the role of water. Electrochimica Acta, 2016, 196, 727-734.	5.2	8
34	Emergence of nonaqueous electrolytes for rechargeable zinc batteries. Current Opinion in Green and Sustainable Chemistry, 2021, 28, 100426.	5.9	8
35	Simple route to lithium dendrite prevention for long cycle-life lithium metal batteries. Applied Materials Today, 2021, 23, 101062.	4.3	8
36	Measure and control: molecular management is a key to the Sustainocene!. Green Chemistry, 2016, 18, 5689-5692.	9.0	7

#	Article	IF	Citations
37	Influence of ion structure on thermal runaway behaviour of aprotic and protic ionic liquids. Chemical Communications, 2020, 56, 11819-11822.	4.1	2
38	Ein Hybridâ€Anion fÃ¼r ionische FlÃ¼ssigkeiten und Batterieelektrolytanwendungen: Halb Triflamid, halb Carbonat. Angewandte Chemie, 2019, 131, 4435-4439.	2.0	0
39	Kenneth R. Seddon â€“ A Rock Star of Ionic Liquids. Australian Journal of Chemistry, 2019, 72, 1.	0.9	0