Rupesh Rohan

List of Publications by Year
in descending order

32 papers	954 citations	394421 19 h-index	454955 30 g-index
34 all docs	34 docs citations	34 times ranked	953 citing authors

#	Article	IF	Citations
1	A high performance polysiloxane-based single ion conducting polymeric electrolyte membrane for application in lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 20267-20276.	10.3	83
2	Toward ambient temperature operation with all-solid-state lithium metal batteries with a sp boron-based solid single ion conducting polymer electrolyte. Journal of Power Sources, 2016, 306, 152-161.	7.8	73
3	Functionalized polystyrene based single ion conducting gel polymer electrolyte for lithium batteries. Solid State Ionics, 2014, 268, 294-299.	2.7	66
4	Influence of Chemical Microstructure of Single-Ion Polymeric Electrolyte Membranes on Performance of Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 17534-17542.	8.0	57
5	Functionalized meso/macro-porous single ion polymeric electrolyte for applications in lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 2960-2967.	10.3	55
6	Flexible supercapacitor based on threeâ€dimensional cellulose/graphite/polyaniline composite. International Journal of Energy Research, 2019, 43, 604-611.	4.5	55
7	Melamineâ€“terephthalaldehydeâ€“lithium complex: a porous organic network based single ion electrolyte for lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 5132-5139.	10.3	46
8	A gel single ion polymer electrolyte membrane for lithium-ion batteries with wide-temperature range operability. RSC Advances, 2014, 4, 21163-21170.	3.6	45
9	Design and synthesis of a single ion conducting block copolymer electrolyte with multifunctionality for lithium ion batteries. RSC Advances, 2014, 4, 43857-43864.	3.6	40
10	Fabrication of a proton exchange membrane via blended sulfonimide functionalized polyamide. Journal of Materials Science, 2014, 49, 3442-3450.	3.7	38
11	A class of sp3 boron-based single-ion polymeric electrolytes for lithium ion batteries. RSC Advances, 2013, 3, 14934.	3.6	34
12	A green and facile approach for hydrothermal synthesis of LiFePO 4 using iron metal directly. Electrochimica Acta, 2016, 220, 164-168.	5.2	33
13	Dinitrileâ€“Mononitrile-Based Electrolyte System for Lithium-Ion Battery Application with the Mechanism of Reductive Decomposition of Mononitriles. Journal of Physical Chemistry C, 2016, 120, 6450-6458.	3.1	33
14	A Polyamide Singleâ€Ion Electrolyte Membrane for Application in Lithiumâ€Ion Batteries. Energy Technology, 2014, 2, 698-704.	3.8	31
15	Synthesis, Characterization and Battery Performance of A Lithium Poly (4-vinylphenol) Phenolate Borate Composite Membrane. Electrochimica Acta, 2014, 139, 264-269.	5.2	28
16	Lithiumâ€Ion Batteries with a Wide Temperature Range Operability Enabled by Highly Conductive sp³ Boronâ€Based Single Ion Polymer Electrolytes. Energy Technology, 2014, 2, 643-650.	3.8	26
17	A lithium poly(pyromellitic acid borate) gel electrolyte membrane for lithium-ion batteries. Journal of Materials Science, 2014, 49, 6111-6117.	3.7	22
18	Highly selective carbon dioxide adsorption on exposed magnesium metals in a cross-linked organo-magnesium complex. Journal of Materials Chemistry A, 2014, 2, 13534-13540.	10.3	21

#	Article	IF	Citations
19	Polymeric organoâ€“magnesium complex for room temperature hydrogen physisorption. RSC Advances, 2015, 5, 10886-10891.	3.6	21
20	Carbon clothâ€MnO₂ nanotube composite for flexible supercapacitor. Energy Storage, 2020, 2, e189.	4.3	20
21	Ambient temperature hydrogen storage in porous materials with exposed metal sites. International Journal of Hydrogen Energy, 2017, 42, 6801-6809.	7.1	15
22	Performance optimization of Co2O3-PVDF-CNT-based supercapacitor electrode through multi-response optimization method. Ionics, 2019, 25, 5991-6005.	2.4	15
23	A pre-lithiated phloroglucinol based 3D porous framework as a single ion conducting electrolyte for lithium ion batteries. RSC Advances, 2016, 6, 53140-53147.	3.6	14
24	Hierarchy concomitant in situ stable iron(II)âˆ’carbon source manipulation using ferrocenecarboxylic acid for hydrothermal synthesis of LiFePO4 as high-capacity battery cathode. Electrochimica Acta, 2017, 253, 227-238.	5.2	12
25	Room Temperature Hydrogen Physisorption on Exposed Metals in A Highly Crossâ€Linked Organoâ€Iron Complex. Advanced Materials Interfaces, 2014, 1, 1400107.	3.7	11
26	Nanofiber Singleâ€Ion Conducting Electrolytes: An Approach for Highâ€Performance Lithium Batteries at Ambient Temperature. ChemElectroChem, 2017, 4, 2178-2183.	3.4	11
27	Enhancement of the High-Rate Performance of an Organic Radical Thin-Film Battery by Decreasing the Grafting Density of Polymer Brushes. ACS Applied Polymer Materials, 2022, 4, 2365-2372.	4.4	11
28	A novel sp³Al-based porous single-ion polymer electrolyte for lithium ion batteries. RSC Advances, 2015, 5, 32343-32349.	3.6	9
29	Investigation of compressed hydrogen refueling process of 60â€‰L type IV tank used in fuel cell vehicles. Energy Storage, 2019, 1, e91.	4.3	9
30	Hydrogen physisorption in ionic solid compounds with exposed metal cations at room temperature. RSC Advances, 2014, 4, 33905-33910.	3.6	8
31	Two-dimensional molybdenum trioxide nanoflakes wrapped with interlayer-expanded molybdenum disulfide nanosheets: Superior performances in supercapacitive energy storage and visible-light-driven photocatalysis. International Journal of Hydrogen Energy, 2021, 46, 34663-34678.	7.1	6
32	Investigation of supercapacitor cyclic degradation through impedance spectroscopy and Randles circuit model. Energy Storage, 2022, 4, .	4.3	6