

AL Sharma

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,480
citations

304701

22
h-index

501174

28
g-index

28
all docs

28
docs citations

28
times ranked

1081
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymer electrolytes for lithium ion batteries: a critical study. <i>Ionics</i> , 2017, 23, 497-540.	2.4	335
2	Effect of salt concentration on dielectric properties of Li-ion conducting blend polymer electrolytes. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 17903-17920.	2.2	133
3	Insights into the use of polyethylene oxide in energy storage/conversion devices: a critical review. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 443002.	2.8	107
4	Dielectric relaxations and transport properties parameter analysis of novel blended solid polymer electrolyte for sodium-ion rechargeable batteries. <i>Journal of Materials Science</i> , 2019, 54, 7131-7155.	3.7	91
5	Effect of variation of different nanofillers on structural, electrical, dielectric, and transport properties of blend polymer nanocomposites. <i>Ionics</i> , 2018, 24, 2295-2319.	2.4	83
6	A glimpse on all-solid-state Li-ion battery (ASSLIB) performance based on novel solid polymer electrolytes: a topical review. <i>Journal of Materials Science</i> , 2020, 55, 6242-6304.	3.7	68
7	Optimization of salt concentration and explanation of two peak percolation in blend solid polymer nanocomposite films. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 2725-2745.	2.5	52
8	Electrolyte for energy storage/conversion (Li ⁺ , Na ⁺ , Mg ²⁺) devices based on PVC and their associated polymer: a comprehensive review. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 997-1059.	2.5	52
9	Structural and electrochemical performance of carbon coated molybdenum selenide nanocomposite for supercapacitor applications. <i>Journal of Energy Storage</i> , 2022, 45, 103797.	8.1	48
10	Improvement in voltage, thermal, mechanical stability and ion transport properties in polymer-clay nanocomposites. <i>Journal of Applied Polymer Science</i> , 2010, 118, 2743-2753.	2.6	45
11	AC conductivity and relaxation behavior in ion conducting polymer nanocomposite. <i>Ionics</i> , 2011, 17, 135-143.	2.4	41
12	Polymer-ion-clay interaction based model for ion conduction in intercalation-type polymer nanocomposite. <i>Ionics</i> , 2010, 16, 339-350.	2.4	38
13	Temperature and Salt-Dependent Dielectric Properties of Blend Solid Polymer Electrolyte Complexed with LiBOB. <i>Macromolecular Research</i> , 2019, 27, 334-345.	2.4	36
14	Selection of best composition of Na ⁺ ion conducting PEO-PEI blend solid polymer electrolyte based on structural, electrical, and dielectric spectroscopic analysis. <i>Ionics</i> , 2020, 26, 745-766.	2.4	36
15	Evaluation of aluminium doped lanthanum ferrite based electrodes for supercapacitor design. <i>Solid State Ionics</i> , 2014, 262, 230-233.	2.7	35
16	Relaxation behavior in clay-reinforced polymer nanocomposites. <i>Ionics</i> , 2015, 21, 1561-1575.	2.4	31
17	Impact of shape (nanofiller vs. nanorod) of TiO ₂ nanoparticle on free-standing solid polymeric separator for energy storage/conversion devices. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47361.	2.6	31
18	Ion transport, dielectric, and electrochemical properties of sodium ion-conducting polymer nanocomposite: application in EDLC. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 10873-10888.	2.2	31

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19	Nanofiller-assisted Na ⁺ -conducting polymer nanocomposite for ultracapacitor: structural, dielectric and electrochemical properties. <i>Journal of Materials Science</i> , 2021, 56, 6167-6187.	3.7	31
20	Plastic separators with improved properties for portable power device applications. <i>Ionics</i> , 2013, 19, 795-809.	2.4	30
21	Structural, electrical and ion transport properties of free-standing blended solid polymeric thin films. <i>Polymer Bulletin</i> , 2019, 76, 5149-5172.	3.3	30
22	Studies on structure property relationship in a polymer-clay nanocomposite film based on (PAN) ₈ LiClO ₄ . <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 2577-2592.	2.1	29
23	Investigation on enhancement of electrical, dielectric and ion transport properties of nanoclay-based blend polymer nanocomposites. <i>Polymer Bulletin</i> , 2020, 77, 2965-2999.	3.3	21
24	Enhanced Curie temperature and superior temperature stability by site selected doping in BCZT based lead-free ceramics. <i>Ceramics International</i> , 2022, 48, 13780-13793.	4.8	16
25	Advanced cyclic stability and highly efficient different shaped carbonaceous nanostructured electrodes for solid-state energy storage devices. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 28254-28271.	7.1	16
26	Fabrication of energy storage EDLC device based on self-synthesized TiO ₂ nanowire dispersed polymer nanocomposite films. <i>Polymer Bulletin</i> , 2022, 79, 4701-4719.	3.3	11
27	Synthesis and characterizations (electrical and thermal stability properties) of the blended polymer nanocomposites. <i>Materials Today: Proceedings</i> , 2019, 12, 605-613.	1.8	1