

AL Sharma

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

25
papers

856
citations

18
h-index

28
g-index

28
ext. papers

1,170
ext. citations

3.1
avg. IF

5.41
L-index

#	Paper	IF	Citations
25	Polymer electrolytes for lithium ion batteries: a critical study. <i>Ionics</i> , 2017 , 23, 497-540	2.7	211
24	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	3	79
23	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	2.1	61
22	Effect of variation of different nanofillers on structural, electrical, dielectric, and transport properties of blend polymer nanocomposites. <i>Ionics</i> , 2018 , 24, 2295-2319	2.7	53
21	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	4.3	49
20	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	2.6	36
19	Polymer/clay interaction based model for ion conduction in intercalation-type polymer nanocomposite. <i>Ionics</i> , 2010 , 16, 339-350	2.7	34
18	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	2.9	33
17	AC conductivity and relaxation behavior in ion conducting polymer nanocomposite. <i>Ionics</i> , 2011 , 17, 135-143	2.4	32
16	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	2.6	29
15	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	4.3	27
14	Evaluation of aluminium doped lanthanum ferrite based electrodes for supercapacitor design. <i>Solid State Ionics</i> , 2014 , 262, 230-233	3.3	26
13	Plastic separators with improved properties for portable power device applications. <i>Ionics</i> , 2013 , 19, 795-809	2.7	25
12	Studies on structure property relationship in a polymer/clay nanocomposite film based on (PAN)/LiClO ₄ . <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008 , 46, 2577-2592	2.6	25
11	Relaxation behavior in clay-reinforced polymer nanocomposites. <i>Ionics</i> , 2015 , 21, 1561-1575	2.7	24
10	Structural, electrical and ion transport properties of free-standing blended solid polymeric thin films. <i>Polymer Bulletin</i> , 2019 , 76, 5149-5172	2.4	21
9	Temperature and Salt-Dependent Dielectric Properties of Blend Solid Polymer Electrolyte Complexed with LiBOB. <i>Macromolecular Research</i> , 2019 , 27, 334-345	1.9	19

8	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	2.9	18
7	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	2.7	18
6	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	3.1	13
5	Investigation on enhancement of electrical, dielectric and ion transport properties of nanoclay-based blend polymer nanocomposites. <i>Polymer Bulletin</i> , 2020 , 77, 2965-2999	2.4	12
4	Nanofiller-assisted Na ⁺ -conducting polymer nanocomposite for ultracapacitor: structural, dielectric and electrochemical properties. <i>Journal of Materials Science</i> , 2021 , 56, 6167	4.3	5
3	Structural and electrochemical performance of carbon coated molybdenum selenide nanocomposite for supercapacitor applications. <i>Journal of Energy Storage</i> , 2022 , 45, 103797	7.8	3
2	Fabrication of energy storage EDLC device based on self-synthesized TiO ₂ nanowire dispersed polymer nanocomposite films. <i>Polymer Bulletin</i> , 1	2.4	2
1	Synthesis and characterizations (electrical and thermal stability properties) of the blended polymer nanocomposites. <i>Materials Today: Proceedings</i> , 2019 , 12, 605-613	1.4	1