

Anil Arya

List of Publications by Year in Descending Order

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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.

35
papers

820
citations

15
h-index

28
g-index

46
ext. papers

1,189
ext. citations

2.6
avg, IF

5.53
L-index

#	Paper	IF	Citations
35	A comprehensive review on defect passivation and gradient energy alignment strategies for highly efficient perovskite solar cells. <i>Journal Physics D: Applied Physics</i> , 2022 , 55, 043001	3	1
34	High efficient carbon coated TiO ₂ electrode for ultra-capacitor applications. <i>Journal Physics D: Applied Physics</i> , 2022 , 55, 055501	3	1
33	Conductivity and Dielectric Spectroscopy of Na ⁺ Ion Conducting Blended Solid Polymer Nanocomposites 2021 , 115-124		
32	Polymer Electrolytes: Development and Supercapacitor Application 2021 , 37-66		0
31	Structural, dielectric and ferroelectric properties of Cu ²⁺ - and Cu ²⁺ /Bi ³⁺ -doped BCZT lead-free ceramics: a comparative study. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 16900-16915	2.1	2
30	Transition metal dichalcogenide (TMDs) electrodes for supercapacitors: a comprehensive review. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	12
29	Exploring the magic bullets to identify Achilles wheel in SARS-CoV-2: Delving deeper into the sea of possible therapeutic options in Covid-19 disease: An update. <i>Food and Chemical Toxicology</i> , 2021 , 147, 111887	4.7	6
28	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
27	High-performance supercapacitor based on MoS ₂ @TiO ₂ composite for wide range temperature application. <i>Journal of Alloys and Compounds</i> , 2021 , 883, 160705	5.7	9
26	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	2.1	13
25	Electrical conductivity and dielectric properties of solid polymer nanocomposite films: Effect of BaTiO ₃ nanofiller. <i>Materials Today: Proceedings</i> , 2020 , 32, 476-482	1.4	4
24	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
23	Polymer Nanocomposites: Synthesis and Characterization. <i>Environmental Chemistry for A Sustainable World</i> , 2020 , 265-315	0.8	0
22	Dielectric properties and ac conductivity behavior of rGO incorporated PVP-PVA blended polymer nanocomposites films. <i>Materials Today: Proceedings</i> , 2020 , 49, 3164-3164	1.4	1
21	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
20	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
19	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

18	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
17	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
16	Electrolyte for energy storage/conversion (Li+, Na+, Mg2+) 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	Tailoring of the structural, morphological, electrochemical, and dielectric properties of solid polymer electrolyte. <i>Ionics</i> , 2019 , 25, 1617-1632	2.7	19
14	Salt concentration and temperature dependent dielectric properties of blend solid polymer electrolyte complexed with NaPF6. <i>Materials Today: Proceedings</i> , 2019 , 12, 554-564	1.4	12
13	Impact of shape (nanofiller vs. nanorod) of TiO2 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
12	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
11	Structural, electrical properties and dielectric relaxations in Na-ion-conducting solid polymer electrolyte. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 165402	1.8	47
10	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
9	Structural, microstructural and electrochemical properties of dispersed-type polymer nanocomposite films. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 045504	3	38
8	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
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	2.6	36
6	Polymer electrolytes for lithium ion batteries: a critical study. <i>Ionics</i> , 2017 , 23, 497-540	2.7	211
5	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
4	Dielectric Study of Polymer Nanocomposite Films for Energy Storage Applications. <i>Springer Proceedings in Physics</i> , 2017 , 389-396	0.2	7
3	Effect of Nano-Filler on the Properties of Polymer Nanocomposite Films of PEO/PAN Complexed with NaPF6. <i>Journal of Materials Science and Engineering B</i> , 2015 , 5,	0	5
2	Fabrication of energy storage EDLC device based on self-synthesized TiO2 nanowire dispersed polymer nanocomposite films. <i>Polymer Bulletin</i> , 1	2.4	2
1	Fabrication of activated carbon electrodes derived from peanut shell for high-performance supercapacitors. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	2

