Anil Arya

List of Publications by Citations

35	820	15	28
papers	citations	h-index	g-index

46	1,189	2.6	5.53
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
35	Polymer electrolytes for lithium ion batteries: a critical study. *Ionics*, **2017**, 23, 497-540	2.7	211
34	Insights into the use of polyethylene oxide in energy storage/conversion devices: a critical review. *Journal Physics D: Applied Physics*, **2017**, 50, 443002	3	79
33	Effect of salt concentration on dielectric properties of Li-ion conducting blend polymer electrolytes. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 17903-17920	2.1	61
32	Effect of variation of different nanofillers on structural, electrical, dielectric, and transport properties of blend polymer nanocomposites. *Ionics*, **2018**, 24, 2295-2319	2.7	53
31	Dielectric relaxations and transport properties parameter analysis of novel blended solid polymer electrolyte for sodium-ion rechargeable batteries. *Journal of Materials Science*, **2019**, 54, 7131-7155	4.3	49
30	Structural, electrical properties and dielectric relaxations in Na-ion-conducting solid polymer electrolyte. *Journal of Physics Condensed Matter*, **2018**, 30, 165402	1.8	47
29	Structural, microstructural and electrochemical properties of dispersed-type polymer nanocomposite films. *Journal Physics D: Applied Physics*, **2018**, 51, 045504	3	38
28	Optimization of salt concentration and explanation of two peak percolation in blend solid polymer nanocomposite films. *Journal of Solid State Electrochemistry*, **2018**, 22, 2725-2745	2.6	36
27	Electrolyte for energy storage/conversion (Li+, Na+, Mg2+) devices based on PVC and their associated polymer: a comprehensive review. *Journal of Solid State Electrochemistry*, **2019**, 23, 997-1059	2.6	29
26	A glimpse on all-solid-state Li-ion battery (ASSLIB) performance based on novel solid polymer electrolytes: a topical review. *Journal of Materials Science*, **2020**, 55, 6242-6304	4.3	27
25	Structural, electrical and ion transport properties of free-standing blended solid polymeric thin films. *Polymer Bulletin*, **2019**, 76, 5149-5172	2.4	21
24	Temperature and Salt-Dependent Dielectric Properties of Blend Solid Polymer Electrolyte Complexed with LiBOB. *Macromolecular Research*, **2019**, 27, 334-345	1.9	19
23	Tailoring of the structural, morphological, electrochemical, and dielectric properties of solid polymer electrolyte. *Ionics*, **2019**, 25, 1617-1632	2.7	19
22	Impact of shape (nanofiller vs. nanorod) of TiO2 nanoparticle on free-standing solid polymeric separator for energy storage/conversion devices. *Journal of Applied Polymer Science*, **2019**, 136, 47361	2.9	18
21	Selection of best composition of Na+ ion conducting PEO-PEI blend solid polymer electrolyte based on structural, electrical, and dielectric spectroscopic analysis. *Ionics*, **2020**, 26, 745-766	2.7	18
20	Ion transport, dielectric, and electrochemical properties of sodium ion-conducting polymer nanocomposite: application in EDLC. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 10873-10888	2.1	13
19	Salt concentration and temperature dependent dielectric properties of blend solid polymer electrolyte complexed with NaPF6. *Materials Today: Proceedings*, **2019**, 12, 554-564	1.4	12

18	Transition metal dichalcogenide (TMDs) electrodes for supercapacitors: a comprehensive review. *Journal of Physics Condensed Matter*, **2021**, 33,	1.8	12
17	Investigation on enhancement of electrical, dielectric and ion transport properties of nanoclay-based blend polymer nanocomposites. *Polymer Bulletin*, **2020**, 77, 2965-2999	2.4	12
16	High-performance supercapacitor based on MoS2@TiO2 composite for wide range temperature application. *Journal of Alloys and Compounds*, **2021**, 883, 160705	5.7	9
15	Dielectric Study of Polymer Nanocomposite Films for Energy Storage Applications. *Springer Proceedings in Physics*, **2017**, 389-396	0.2	7
14	Exploring the magic bullets to identify AchillesVheel in SARS-CoV-2: Delving deeper into the sea of possible therapeutic options in Covid-19 disease: An update. *Food and Chemical Toxicology*, **2021**, 147, 111887	4.7	6
13	Effect of Nano-Filler on the Properties of Polymer Nanocomposite Films of PEO/PAN Complexed with NaPF6. *Journal of Materials Science and Engineering B*, **2015**, 5,	0	5
12	Nanofiller-assisted Na+-conducting polymer nanocomposite for ultracapacitor: structural, dielectric and electrochemical properties. *Journal of Materials Science*, **2021**, 56, 6167	4.3	5
11	Electrical conductivity and dielectric properties of solid polymer nanocomposite films: Effect of BaTiO3 nanofiller. *Materials Today: Proceedings*, **2020**, 32, 476-482	1.4	4
10	Structural, dielectric and ferroelectric properties of Cu2+- and Cu2+/Bi3+-doped BCZT lead-free ceramics: a comparative study. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 16900-16915	2.1	2
9	Fabrication of energy storage EDLC device based on self-synthesized TiO2 nanowire dispersed polymer nanocomposite films. *Polymer Bulletin*,1	2.4	2
8	Fabrication of activated carbon electrodes derived from peanut shell for high-performance supercapacitors. *Biomass Conversion and Biorefinery*,1	2.3	2
7	Synthesis and characterizations (electrical and thermal stability properties) of the blended polymer nanocomposites. *Materials Today: Proceedings*, **2019**, 12, 605-613	1.4	1
6	A comprehensive review on defect passivation and gradient energy alignment strategies for highly efficient perovskite solar cells. *Journal Physics D: Applied Physics*, **2022**, 55, 043001	3	1
5	High efficient carbon coated TiO2 electrode for ultra-capacitor applications. *Journal Physics D: Applied Physics*, **2022**, 55, 055501	3	1
4	Dielectric properties and ac conductivity behavior of rGO incorporated PVP-PVA blended polymer nanocomposites films. *Materials Today: Proceedings*, **2020**, 49, 3164-3164	1.4	1
3	Polymer Nanocomposites: Synthesis and Characterization. *Environmental Chemistry for A Sustainable World*, **2020**, 265-315	0.8	0
2	Polymer Electrolytes: Development and Supercapacitor Application **2021**, 37-66		0
1	Conductivity and Dielectric Spectroscopy of Na+ Ion Conducting Blended Solid Polymer Nanocomposites **2021**, 115-124		