

Rajiv Kumar

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.

24
papers

392
citations

10
h-index

19
g-index

26
ext. papers

457
ext. citations

2.3
avg, IF

3.7
L-index

#	Paper	IF	Citations
24	Nanodispersed polymer gels used as electrolytes in lithium-ion batteries 2021 , 41-57		
23	Nanocomposite polymer electrolytes for energy devices 2021 , 27-40		0
22	Effect of heat treatment on thermal and mechanical stability of NaOH-doped xanthan gum-based hydrogels. <i>Journal of Solid State Electrochemistry</i> , 2020 , 24, 1337-1347	2.6	3
21	Study of PVA-based nanocomposite polymer gels containing weak aliphatic dicarboxylic acids. <i>Surface Innovations</i> , 2020 , 8, 182-189	1.9	2
20	FTIR, thermal and ionic conductivity studies of nanocomposite polymer electrolytes. <i>Surface Innovations</i> , 2019 , 7, 51-58	1.9	8
19	FTIR and rheological studies of PMMA-based nano-dispersed gel polymer electrolytes incorporated with LiBF ₄ and SiO ₂ . <i>Ionics</i> , 2019 , 25, 1495-1503	2.7	8
18	Ionic conductivity, SEM, TGA and rheological studies of Nano-dispersed silica based polymer gel electrolytes containing LiBF ₄ . <i>Solid State Ionics</i> , 2018 , 317, 175-182	3.3	12
17	Conductivity modification of gum acacia-based gel electrolytes. <i>Emerging Materials Research</i> , 2018 , 7, 89-94	1.4	4
16	Ionic conductivity, FTIR and thermal studies of nano-composite plasticized proton conducting polymer electrolytes. <i>Solid State Ionics</i> , 2017 , 305, 57-62	3.3	34
15	Characterization of PVdF-HFP-based nanocomposite plasticized polymer electrolytes. <i>Surface Innovations</i> , 2017 , 5, 251-256	1.9	5
14	Electrical characterization of nano-composite polymer gel electrolytes containing NH ₄ BF ₄ and SiO ₂ : role of donor number of solvent and fumed silica. <i>Ionics</i> , 2017 , 23, 2761-2766	2.7	10
13	Electrical Characterization of PVdF based Proton Conducting Polymer Gel Electrolytes. <i>Current Smart Materials</i> , 2016 , 1, 63-67	1	8
12	Effect of nano-size fumed silica on ionic conductivity of PVdF-HFP-based plasticized nano-composite polymer electrolytes. <i>Ionics</i> , 2016 , 22, 1865-1872	2.7	36
11	Electrical Properties of Nanocomposite Polymer Gels based on PMMA-DMA/DMC-LiCLO ₂ -SiO ₂ . <i>I-manager S Journal on Material Science</i> , 2015 , 3, 21-27	0.8	3
10	Enhancement in Electrical Properties of PEO Based Nano-Composite Gel Electrolytes. <i>I-manager S Journal on Material Science</i> , 2014 , 2, 12-17	0.8	4
9	Conductivity, FTIR studies, and thermal behavior of PMMA-based proton conducting polymer gel electrolytes containing triflic acid. <i>Ionics</i> , 2013 , 19, 1627-1635	2.7	34
8	Conductivity modification of proton conducting polymer gel electrolytes containing a weak acid (ortho-hydroxy benzoic acid) with the addition of PMMA and fumed silica. <i>Journal of Applied Electrochemistry</i> , 2009 , 39, 439-445	2.6	31

7	Effect of molecular weight of PMMA on the conductivity and viscosity behavior of polymer gel electrolytes containing NH ₄ CF ₃ SO ₃ . <i>Ionics</i> , 2008 , 14, 509-514	2.7	33
6	Conductivity and viscosity behaviour of PMMA based gels and nano dispersed gels: Role of dielectric constant of the solvent. <i>Solid State Ionics</i> , 2005 , 176, 1577-1583	3.3	45
5	FTIR study of ion dissociation in PMMA based gel electrolytes containing ammonium triflate: Role of dielectric constant of solvent. <i>European Polymer Journal</i> , 2005 , 41, 2718-2725	5.2	65
4	Correlation between ionic conductivity and fluidity of polymer gel electrolytes containing NH ₄ CF ₃ SO ₃ . <i>Bulletin of Materials Science</i> , 2005 , 28, 467-472	1.7	19
3	Evidence of ion pair breaking by dispersed polymer in polymer gel electrolytes. <i>Ionics</i> , 2004 , 10, 436-442	2.7	16
2	Evidence of ion pair breaking by dispersed polymer in polymer gel electrolytes. <i>Ionics</i> , 2004 , 10, 10-16	2.7	9
1	Effect of polyvinyl alcohol on electrical, spectroscopic and thermal properties of gum acacia-based gel electrolytes containing NaOH. <i>Polymer Bulletin</i> , 1	2.4	1