Rajiv Kumar

List of Publications by Citations

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	FTIR study of ion dissociation in PMMA based gel electrolytes containing ammonium triflate: Role of dielectric constant of solvent. *European Polymer Journal*, **2005**, 41, 2718-2725	5.2	65
23	Conductivity and viscosity behaviour of PMMA based gels and nano dispersed gels: Role of dielectric constant of the solvent. *Solid State Ionics*, **2005**, 176, 1577-1583	3.3	45
22	Effect of nano-size fumed silica on ionic conductivity of PVdF-HFP-based plasticized nano-composite polymer electrolytes. *Ionics*, **2016**, 22, 1865-1872	2.7	36
21	Ionic conductivity, FTIR and thermal studies of nano-composite plasticized proton conducting polymer electrolytes. *Solid State Ionics*, **2017**, 305, 57-62	3.3	34
20	Conductivity, FTIR studies, and thermal behavior of PMMA-based proton conducting polymer gel electrolytes containing triflic acid. *Ionics*, **2013**, 19, 1627-1635	2.7	34
19	Effect of molecular weight of PMMA on the conductivity and viscosity behavior of polymer gel electrolytes containing NH4CF3SO3. *Ionics*, **2008**, 14, 509-514	2.7	33
18	Conductivity modification of proton conducting polymer gel electrolytes containing a weak acid (ortho-hydroxy benzoic acid) with the addition of PMMA and fumed silica. *Journal of Applied Electrochemistry*, **2009**, 39, 439-445	2.6	31
17	Correlation between ionic conductivity and fluidity of polymer gel electrolytes containing NH4CF3SO3. *Bulletin of Materials Science*, **2005**, 28, 467-472	1.7	19
16	Evidence of ion pair breaking by dispersed polymer in polymer gel electrolytes. *Ionics*, **2004**, 10, 436-442	2.7	16
15	Ionic conductivity, SEM, TGA and rheological studies of Nano-dispersed silica based polymer gel electrolytes containing LiBF4. *Solid State Ionics*, **2018**, 317, 175-182	3.3	12
14	Electrical characterization of nano-composite polymer gel electrolytes containing NH4BF4 and SiO2: role of donor number of solvent and fumed silica. *Ionics*, **2017**, 23, 2761-2766	2.7	10
13	Evidence of ion pair breaking by dispersed polymer in polymer gel electrolytes. *Ionics*, **2004**, 10, 10-16	2.7	9
12	FTIR, thermal and ionic conductivity studies of nanocomposite polymer electrolytes. *Surface Innovations*, **2019**, 7, 51-58	1.9	8
11	Electrical Characterization of PVdF based Proton Conducting Polymer Gel Electrolytes. *Current Smart Materials*, **2016**, 1, 63-67	1	8
10	FTIR and rheological studies of PMMA-based nano-dispersed gel polymer electrolytes incorporated with LiBF4 and SiO2. *Ionics*, **2019**, 25, 1495-1503	2.7	8
9	Characterization of PVdF-HFP-based nanocomposite plasticized polymer electrolytes. *Surface Innovations*, **2017**, 5, 251-256	1.9	5
8	Enhancement in Electrical Properties of PEO Based Nano-Composite Gel Electrolytes. *I-manager S Journal on Material Science*, **2014**, 2, 12-17	0.8	4

List of Publications

7	Conductivity modification of gum acacia-based gel electrolytes. *Emerging Materials Research*, **2018**, 7, 89-94	1.4	4
6	Effect of heat treatment on thermal and mechanical stability of NaOH-doped xanthan gum-based hydrogels. *Journal of Solid State Electrochemistry*, **2020**, 24, 1337-1347	2.6	3
5	Electrical Properties of Nanocomposite Polymer Gels based on PMMA-DMA/DMC-LiCLO2 -SiO2. *I-manager S Journal on Material Science*, **2015**, 3, 21-27	0.8	3
4	Study of PVA-based nanocomposite polymer gels containing weak aliphatic dicarboxylic acids. *Surface Innovations*, **2020**, 8, 182-189	1.9	2
3	Effect of polyvinyl alcohol on electrical, spectroscopic and thermal properties of gum acacia-based gel electrolytes containing NaOH. *Polymer Bulletin*,1	2.4	1
2	Nanocomposite polymer electrolytes for energy devices **2021**, 27-40		0
1	Nanodispersed polymer gels used as electrolytes in lithium-ion batteries **2021**, 41-57		