

# G Hirankumar

## 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.

42  
papers

1,452  
citations

21  
h-index

38  
g-index

45  
ext. papers

1,600  
ext. citations

3.4  
avg, IF

4.31  
L-index

#	Paper	IF	Citations
42	Investigation on dielectric relaxations of PVP-NH <sub>4</sub> SCN polymer electrolyte. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 1494-1502	3.9	146
41	Thermal, electrical and optical studies on the poly(vinyl alcohol) based polymer electrolytes. <i>Journal of Power Sources</i> , <b>2005</b> , 144, 262-267	8.9	144
40	Vibrational and impedance spectroscopic study on PVP-NH <sub>4</sub> SCN based polymer electrolytes. <i>Physica B: Condensed Matter</i> , <b>2007</b> , 393, 11-17	2.8	95
39	Conductivity and thermal behavior of proton conducting polymer electrolyte based on poly (N-vinyl pyrrolidone). <i>European Polymer Journal</i> , <b>2006</b> , 42, 2672-2677	5.2	86
38	Conductivity and dielectric properties of polyvinyl alcohol-polyvinylpyrrolidone poly blend film using non-aqueous medium. <i>Journal of Non-Crystalline Solids</i> , <b>2011</b> , 357, 3751-3756	3.9	79
37	Vibrational, ac impedance and dielectric spectroscopic studies of poly(vinylacetate)-N,N-dimethylformamide-LiClO <sub>4</sub> polymer gel electrolytes. <i>Journal of Power Sources</i> , <b>2004</b> , 134, 235-240	8.9	79
36	Structural and thermal studies of PVA:NH <sub>4</sub> I. <i>Journal of Physics and Chemistry of Solids</i> , <b>2009</b> , 70, 1098-1103	10.3	78
35	Dielectric and conductivity relaxations in PVAc based polymer electrolytes. <i>Ionics</i> , <b>2004</b> , 10, 129-134	2.7	69
34	Transport mechanism of Cu-ion conducting PVA based solid-polymer electrolyte. <i>Ionics</i> , <b>2005</b> , 11, 436-441	4.7	57
33	<sup>1</sup> H solid state NMR studies on the proton conducting polymer electrolytes. <i>Materials Letters</i> , <b>2005</b> , 59, 2741-2745	3.3	54
32	Structural, vibrational, thermal, and conductivity studies on proton-conducting polymer electrolyte based on poly (N-vinylpyrrolidone). <i>Ionics</i> , <b>2012</b> , 18, 91-99	2.7	50
31	Laser Raman and ac impedance spectroscopic studies of PVA: NH <sub>4</sub> NO <sub>3</sub> polymer electrolyte. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2010</b> , 75, 474-8	4.4	49
30	Vibrational and impedance spectroscopic analysis of poly(vinyl alcohol)-based solid polymer electrolytes. <i>Ionics</i> , <b>2007</b> , 13, 483-487	2.7	45
29	Ag <sup>+</sup> ion transport studies in a polyvinyl alcohol-based polymer electrolyte system. <i>Journal of Solid State Electrochemistry</i> , <b>2006</b> , 10, 193-197	2.6	45
28	Structural, dielectric, and conductivity studies of yttrium-doped LiNiPO <sub>4</sub> cathode materials. <i>Ionics</i> , <b>2011</b> , 17, 201-207	2.7	44
27	AC impedance studies on proton conducting polymer electrolyte complexes (PVA+CH <sub>3</sub> COONH <sub>4</sub> ). <i>Ionics</i> , <b>2004</b> , 10, 135-138	2.7	44
26	Synthesis and ion dynamics studies of nanocrystalline Mg stabilized zirconia. <i>Physica B: Condensed Matter</i> , <b>2003</b> , 334, 390-397	2.8	34

25	Effect of incorporation of different plasticizers on structural and ion transport properties of PVA-LiClO based electrolytes. <i>Heliyon</i> , <b>2018</b> , 4, e00992	3.6	34
24	Structural and conductivity studies on LiNiPO <sub>4</sub> synthesized by the polyol method. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 548, 65-69	5.7	29
23	Influence of B <sub>2</sub> O <sub>3</sub> doping on conductivity of LiTiO <sub>2</sub> electrode material. <i>Journal of Power Sources</i> , <b>2003</b> , 117, 143-147	8.9	26
22	Ionic transport properties of LiCoPO <sub>4</sub> cathode material. <i>Solid State Sciences</i> , <b>2011</b> , 13, 1714-1718	3.4	22
21	Ionic conductivity studies on LiSmO <sub>2</sub> by impedance spectroscopy. <i>Ionics</i> , <b>2010</b> , 16, 317-321	2.7	21
20	Novel proton conducting polymer electrolyte and its application in microbial fuel cell. <i>Materials Letters</i> , <b>2016</b> , 164, 551-553	3.3	18
19	Structural and electrical studies on Zn <sup>2+</sup> doped LiCoPO <sub>4</sub> . <i>Journal of Electrostatics</i> , <b>2014</b> , 72, 181-186	1.7	13
18	Preparation and characterization of PVA/PAM/NH <sub>4</sub> SCN polymer film by ultrasound-assisted solution casting method for application in electric double layer capacitor. <i>Ionics</i> , <b>2020</b> , 26, 4113-4128	2.7	11
17	Vibrational, electrical, and ion transport properties of PVA-LiClO <sub>4</sub> -sulfolane electrolyte with high cationic conductivity. <i>Ionics</i> , <b>2017</b> , 23, 1733-1743	2.7	8
16	Effect of pH on the electrical properties and conducting mechanism of SnO <sub>2</sub> nanoparticles. <i>Physica B: Condensed Matter</i> , <b>2017</b> , 509, 62-69	2.8	8
15	Influence of metals on the structural, vibrational, and electrical properties of lithium nickel phosphate. <i>Ionics</i> , <b>2015</b> , 21, 345-357	2.7	8
14	Electrical, dielectric and electrochemical studies on new Li ion conducting solid polymer electrolytes based on polyethylene glycol p-tert-octylphenyl ether. <i>Polymer Science - Series A</i> , <b>2017</b> , 59, 660-668	1.2	8
13	Investigation of the Ionic conductivity and dielectric measurements of poly (N-vinyl pyrrolidone)-sulfamic acid polymer complexes. <i>Physica B: Condensed Matter</i> , <b>2015</b> , 458, 51-57	2.8	7
12	Characterization of CH <sub>3</sub> SO <sub>3</sub> H-doped PMMA/PVP blend-based proton-conducting polymer electrolytes and its application in primary battery. <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	7
11	Effect of annealing temperatures on an ion transport properties of the bioglass. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 532, 86-91	5.7	6
10	Ionic conductivity studies on Sr stabilized zirconia by impedance spectroscopy. <i>Ionics</i> , <b>2005</b> , 11, 362-365	2.7	6
9	Structure, dielectric and bioactivity of P <sub>2</sub> O <sub>5</sub> -CaO-Na <sub>2</sub> O-B <sub>2</sub> O <sub>3</sub> bioactive glass. <i>Applied Physics A: Materials Science and Processing</i> , <b>2014</b> , 117, 1323-1327	2.6	5
8	Ion dynamic studies on Li <sub>3</sub> CaZr(PO <sub>4</sub> ) <sub>3</sub> . <i>Journal of Materials Science</i> , <b>2004</b> , 39, 727-729	4.3	4

7	Structural, Morphological, Vibrational and Electrical Studies on Zn Doped Nanocrystalline LiNiPO <sub>4</sub> . <i>Materials Science Forum</i> , <b>2014</b> , 781, 145-153	0.4	3
6	Ionic conductivity studies on Mg stabilized zirconia by impedance spectroscopy. <i>Ceramics International</i> , <b>2004</b> , 30, 1631-1634	5.1	3
5	Vibrational, electrical, dielectric and optical properties of PVA-LiPF <sub>6</sub> solid polymer electrolytes. <i>Materials Science-Poland</i> , <b>2019</b> , 37, 331-337	0.6	3
4	STRUCTURAL AND CONDUCTIVITY STUDIES ON LANTHANUM DOPED <sup>4</sup> PREPARED BY POLYOL METHOD <b>2012</b> , 27-36		2
3	Synthesis and Electrical Characterization of Gd doped Lithium Phosphate <b>2002</b> ,		1
2	Dielectric Relaxation Study on TiO <sub>2</sub> Based Nanocomposite Blend Polymer Electrolytes. <i>Materials Science Forum</i> , <b>2014</b> , 807, 135-142	0.4	
1	AC IMPEDANCE AND FTIR STUDIES ON PROTON CONDUCTING POLYMER ELECTROLYTE MEMBRANE BASED ON PVP AND METHANESULFONIC ACID <b>2015</b> , 17-30		