

Selvasekarapandian Subramanian

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.

118
papers

2,329
citations

27
h-index

42
g-index

141
ext. papers

2,899
ext. citations

2.6
avg, IF

5.31
L-index

#	Paper	IF	Citations
118	Development of biopolymer electrolyte membrane using Gellan gum biopolymer incorporated with NH ₄ SCN for electro-chemical application. <i>Ionics</i> , 2021 , 27, 3415-3429	2.7	3
117	Investigations on Na-ion conducting electrolyte based on sodium alginate biopolymer for all-solid-state sodium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2021 , 25, 2009-2020	2.6	4
116	Impact of lithium triflate (LiCF ₃ SO ₃) salt on tamarind seed polysaccharide-based natural solid polymer electrolyte for application in electrochemical device. <i>Polymer Bulletin</i> , 2021 , 78, 1797-1819	2.4	4
115	Investigation of blend biopolymer electrolytes based on Dextran-PVA with ammonium thiocyanate. <i>Journal of Solid State Electrochemistry</i> , 2021 , 25, 755-765	2.6	7
114	Plasticized solid polymer electrolyte based on triblock copolymer poly(vinylidene chloride-co-acrylonitrile-co-methyl methacrylate) for magnesium ion batteries. <i>Polymer Bulletin</i> , 2021 , 78, 35-57	2.4	6
113	Characterization of solid biopolymer electrolytes based on kappa-carrageenan with Magnesium nitrate hexahydrate and its application to electrochemical devices. <i>Polymer-Plastics Technology and Materials</i> , 2021 , 60, 1317-1330	1.5	
112	Lithium ion conducting biopolymer membrane based on K-carrageenan with LiNO ₃ . <i>Ionics</i> , 2020 , 26, 4311-4326	2.7	9
111	Magnesium ion-conducting solid polymer electrolyte based on cellulose acetate with magnesium nitrate (Mg(NO ₃) ₂ ·6H ₂ O) for electrochemical studies. <i>Ionics</i> , 2020 , 26, 4553-4565	1.7	9
110	Investigation of seaweed derivative iota-carrageenan based biopolymer electrolytes with lithium trifluoromethanesulfonate. <i>Materials Research Express</i> , 2020 , 7, 015309	2.4	16
109	Synthesis and characterization of iota-carrageenan biopolymer electrolyte with lithium perchlorate and succinonitrile (plasticizer). <i>Polymer Bulletin</i> , 2020 , 77, 1555-1579	2.7	3
108	Mg-ion conducting triblock copolymer electrolyte based on poly(VdCl-co-AN-co-MMA) with magnesium nitrate. <i>Ionics</i> , 2020 , 26, 789-800	2.7	21
107	Preparation and characterization of biopolymer K-carrageenan with MgCl ₂ and its application to electrochemical devices. <i>Ionics</i> , 2020 , 26, 233-244	2.7	58
106	Synthesis and characterization of biopolymer electrolyte based on tamarind seed polysaccharide, lithium perchlorate and ethylene carbonate for electrochemical applications. <i>Ionics</i> , 2019 , 25, 1067-1082	2.6	20
105	Eco-friendly biopolymer electrolyte, pectin with magnesium nitrate salt, for application in electrochemical devices. <i>Journal of Solid State Electrochemistry</i> , 2019 , 23, 2181-2193	2.6	4
104	Characterization of biodegradable solid polymer electrolyte system based on agar-NH ₄ Br and its comparison with NH ₄ I. <i>Journal of Solid State Electrochemistry</i> , 2019 , 23, 1727-1737	2.7	27
103	Synthesis and characterization of iota-carrageenan solid biopolymer electrolytes for electrochemical applications. <i>Ionics</i> , 2019 , 25, 2147-2157	2.7	21
102	Preparation and characterization of proton-conducting polymer electrolyte based on PVA, amino acid proline, and NH ₄ Cl and its applications to electrochemical devices. <i>Ionics</i> , 2019 , 25, 141-154		

101	Synthesis and characterization of pectin-based biopolymer electrolyte for electrochemical applications. <i>Ionics</i> , 2019 , 25, 203-214	2.7	22
100	Lithium ion conducting membrane based on K-carrageenan complexed with lithium bromide and its electrochemical applications. <i>Ionics</i> , 2019 , 25, 5839-5855	2.7	12
99	Development and Characterization of Bio-Polymer Electrolyte iota-carrageenan with Ammonium Salt for: Electrochemical Application. <i>Materials Today: Proceedings</i> , 2019 , 8, 449-455	1.4	5
98	Development of poly(glycerol suberate) polyester (PGS)EVA blend polymer electrolytes with NH4SCN and its application. <i>Ionics</i> , 2018 , 24, 1979-1993	2.7	13
97	Characterization of biopolymer pectin with lithium chloride and its applications to electrochemical devices. <i>Ionics</i> , 2018 , 24, 3259-3270	2.7	34
96	Tamarind seed polysaccharide biopolymer membrane for lithium-ion conducting battery. <i>Ionics</i> , 2018 , 24, 3793-3803	2.7	20
95	Study of biopolymer I-carrageenan with magnesium perchlorate. <i>Ionics</i> , 2018 , 24, 3861-3875	2.7	19
94	A study of electrochemical devices based on Agar-Agar-NH4I biopolymer electrolytes 2018 ,		2
93	Lithium ion conducting biopolymer electrolyte based on pectin doped with Lithium nitrate 2018 ,		6
92	Effect of ethylene carbonate plasticizer on agar-agar: NH4Br-based solid polymer electrolytes. <i>Ionics</i> , 2018 , 24, 2209-2217	2.7	19
91	Study of proton-conducting polymer electrolyte based on K-carrageenan and NH4SCN for electrochemical devices. <i>Ionics</i> , 2018 , 24, 3535-3542	2.7	24
90	Preparation and characterization of blend polymer electrolyte film based on poly(vinyl alcohol)-poly(acrylonitrile)/MgCl2 for energy storage devices. <i>Ionics</i> , 2018 , 24, 1083-1095	2.7	21
89	Conductive bio-polymer electrolyte iota-carrageenan with ammonium nitrate for application in electrochemical devices. <i>Journal of Non-Crystalline Solids</i> , 2018 , 481, 424-434	3.9	81
88	Synthesis and characterization of bio-polymer electrolyte based on iota-carrageenan with ammonium thiocyanate and its applications. <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 3209-3223 ^{2.6}		39
87	Biopolymer agar-agar doped with NH4SCN as solid polymer electrolyte for electrochemical cell application. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	44
86	Tamarind seed polysaccharide (TSP)-based Li-ion conducting membranes. <i>Ionics</i> , 2017 , 23, 2677-2684	2.7	13
85	Development and Study of Solid Polymer Electrolyte Based on Polyvinyl Alcohol: Mg(ClO4)2. <i>Polymer-Plastics Technology and Engineering</i> , 2017 , 56, 992-1002		21
84	Mg-ion conducting blend polymer electrolyte based on poly(vinyl alcohol)-poly (acrylonitrile) with magnesium perchlorate. <i>Solid State Ionics</i> , 2017 , 308, 90-100	3.3	60

83	Synthesis and characterization of dextrin-based polymer electrolytes for potential applications in energy storage devices. <i>Ionics</i> , 2017 , 23, 3377-3388	2.7	28
82	Magnesium ion conducting polyvinyl alcohol/polyvinyl pyrrolidone-based blend polymer electrolyte. <i>Ionics</i> , 2017 , 23, 1771-1781	2.7	25
81	Lithium ion-conducting polymer electrolytes based on PVABAN doped with lithium triflate. <i>Ionics</i> , 2017 , 23, 2727-2734	2.7	21
80	Study of PVAc-PMMA-LiCl polymer blend electrolyte and the effect of plasticizer ethylene carbonate and nanofiller titania on PVAc-PMMA-LiCl polymer blend electrolyte. <i>Journal of Polymer Engineering</i> , 2017 , 37, 617-631	1.4	16
79	Proton-conducting I-Carrageenan-based biopolymer electrolyte for fuel cell application. <i>Ionics</i> , 2017 , 23, 2775-2780	2.7	49
78	Polyvinyl pyrrolidone/Mg(ClO ₄) ₂ solid polymer electrolyte: structural and electrical studies. <i>Ionics</i> , 2017 , 23, 2837-2843	2.7	12
77	Incorporation of NH ₄ Br in Tamarind Seed Polysaccharide biopolymer and its potential use in electrochemical energy storage devices. <i>Organic Electronics</i> , 2017 , 50, 418-425	3.5	25
76	Development of proton conducting biopolymer membrane based on agar/agar for fuel cell. <i>Ionics</i> , 2017 , 23, 2781-2790	2.7	34
75	Synthesis and characterization of Li _{1-x} Tb _x NiPO ₄ solid solution as cathode materials for lithium ion battery application. <i>Ionics</i> , 2017 , 23, 2621-2629	2.7	2
74	Synthesis and characterization of proton-conducting polymer electrolyte based on polyacrylonitrile (PAN). <i>Ionics</i> , 2017 , 23, 2767-2774	2.7	11
73	Proton-conducting biopolymer electrolytes based on pectin doped with NH ₄ X (X=Cl, Br). <i>Ionics</i> , 2017 , 23, 2799-2808	2.7	27
72	Investigation of bio polymer electrolyte based on cellulose acetate-ammonium nitrate for potential use in electrochemical devices. <i>Carbohydrate Polymers</i> , 2017 , 157, 38-47	10.3	91
71	Lithium Ion-conducting Blend Polymer Electrolyte Based on PVABAN Doped with Lithium Nitrate. <i>Polymer-Plastics Technology and Engineering</i> , 2016 , 55, 25-35		19
70	Preparation and characterization of biopolymer electrolyte based on cellulose acetate for potential applications in energy storage devices. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 9314-9324	2.1	31
69	Structural, electrical and electrochemical properties of polyacrylonitrile-ammonium hexafluorophosphate polymer electrolyte system. <i>Journal of Polymer Research</i> , 2016 , 23, 1	2.7	26
68	Characterization of blend polymer PVA-PVP complexed with ammonium thiocyanate. <i>Ionics</i> , 2016 , 22, 1299-1310	2.7	40
67	Structural, electrical conductivity, and transport analysis of PAN/NH ₄ Cl polymer electrolyte system. <i>Ionics</i> , 2016 , 22, 1085-1094	2.7	18
66	Preparation and Impedance Analysis of Biodegradable Polymer Polyvinyl Alcohol with Amino Acid, Arginine. <i>Polymer-Plastics Technology and Engineering</i> , 2016 , 55, 889-899		5

65	Characterization of high ionic conducting PVAc/PMMA blend-based polymer electrolyte for electrochemical applications. <i>Ionics</i> , 2016 , 22, 2409-2420	2.7	17
64	Investigations on proton conducting biopolymer membranes based on tamarind seed polysaccharide incorporated with ammonium thiocyanate. <i>Journal of Non-Crystalline Solids</i> , 2016 , 453, 131-140	3.9	27
63	Study on blend polymer (PVA-PAN) doped with lithium bromide. <i>Polymer Science - Series A</i> , 2015 , 57, 851-862	1.2	16
62	Preparation and characterization of PVA complexed with amino acid, proline. <i>Ionics</i> , 2015 , 21, 387-399	2.7	20
61	Electrical conductivity characterization of polyacrylonitrile-ammonium bromide polymer electrolyte system. <i>Journal of Solid State Electrochemistry</i> , 2015 , 19, 987-999	2.6	34
60	AC impedance studies on proton-conducting PAN : NH ₄ SCN polymer electrolytes. <i>Ionics</i> , 2014 , 20, 1391-1398	2.6	26
59	A study on polymer blend electrolyte based on PVA/PVP with proton salt. <i>Polymer Bulletin</i> , 2014 , 71, 1061-1080	2.4	65
58	Lithium ion conducting solid polymer blend electrolyte based on bio-degradable polymers. <i>Bulletin of Materials Science</i> , 2013 , 36, 333-339	1.7	47
57	Proton conducting polymer electrolytes based on PVdF-PVA with NH ₄ NO ₃ . <i>Journal of Polymer Engineering</i> , 2013 , 33, 315-322	1.4	6
56	Dielectric and modulus studies of LiNiPO ₄ . <i>Materials Chemistry and Physics</i> , 2012 , 134, 366-370	4.4	48
55	Structural, vibrational, thermal, and conductivity studies on proton-conducting polymer electrolyte based on poly (N-vinylpyrrolidone). <i>Ionics</i> , 2012 , 18, 91-99	2.7	50
54	Influence of europium doping on conductivity of LiNiPO ₄ . <i>Transactions of Nonferrous Metals Society of China</i> , 2012 , 22, 342-347	3.3	12
53	Synthesis, impedance and electrochemical studies of lithium iron fluorophosphate, LiFePO ₄ F cathode. <i>Electrochimica Acta</i> , 2012 , 85, 572-578	6.7	39
52	Synthesis, micro-structural, and electrical analysis on lanthanum fluoride. <i>Ionics</i> , 2012 , 18, 461-471	2.7	4
51	Impedance studies on the 5-V cathode material, LiCoPO ₄ . <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 1833-1839	2.6	45
50	Lithium Ion Conducting Polymer Electrolyte Based on Poly (Vinyl Alcohol) /Poly (Vinyl Pyrrolidone) Blend with LiClO ₄ . <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2012 , 61, 1164-1175 ²³	2.2	23
49	Synthesis of Li(1+x)V ₃ O ₈ by chemical route and its characterization. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 737-42	1.3	
48	Ionic transport properties of LiCoPO ₄ cathode material. <i>Solid State Sciences</i> , 2011 , 13, 1714-1718	3.4	22

47	Structural, dielectric, and conductivity studies of yttrium-doped LiNiPO ₄ cathode materials. <i>Ionics</i> , 2011 , 17, 201-207	2.7	44
46	Ionic conductivity studies on LiSmO ₂ by impedance spectroscopy. <i>Ionics</i> , 2010 , 16, 317-321	2.7	21
45	Electrical properties of cerium fluoride thin films. <i>Ionics</i> , 2010 , 16, 481-486	2.7	10
44	Structural and ionic conductivity studies on proton conducting polymer electrolyte based on polyvinyl alcohol. <i>Ionics</i> , 2009 , 15, 487-491	2.7	41
43	NMR Study on Li ⁺ Ionic Motion in Li _x V ₂ O ₅ (0.4 <math>x < 1.4</math>). <i>Journal of the Physical Society of Japan</i> , 2008 , 77, 024602	1.5	2
42	Structural and electrical conductivity studies of Li _x AlZr[PO ₄] ₃ (x = 1.8, 2.0, 2.2), solid electrolyte for lithium-rechargeable batteries. <i>Journal of Solid State Electrochemistry</i> , 2008 , 12, 857-860	2.6	12
41	Proton-conducting membranes: poly (N-vinyl pyrrolidone) complexes with various ammonium salts. <i>Journal of Solid State Electrochemistry</i> , 2008 , 12, 807-814	2.6	16
40	¹ H NMR, thermal, and conductivity studies on PVAc based gel polymer electrolytes. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 1945-1954	2.9	6
39	Thermoluminescence and other optical studies on RbBr:Tb ³⁺ crystals. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 726-734	1.3	12
38	Electrical conduction and relaxation mechanism in Li ₂ AlZr[PO ₄] ₃ . <i>Journal of Materials Science</i> , 2007 , 42, 5470-5475	4.3	19
37	Background radiation study in Coimbatore city, Tamilnadu. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2007 , 274, 355-359	1.5	0
36	Natural radioactivity in the soil samples in and around Kudankulam nuclear power plant site. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2007 , 274, 361-366	1.5	8
35	Natural radioactivity and indoor radiation measurements in buildings and building materials in Gobichettipalayam town. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2007 , 274, 373-377	1.5	6
34	Laser Raman and FTIR studies on Li ⁺ interaction in PVAc-LiClO ₄ polymer electrolytes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006 , 65, 1234-40	4.4	96
33	Thermoluminescence and photoluminescence studies on gamma irradiated CsI: Pb ²⁺ crystals. <i>Radiation Effects and Defects in Solids</i> , 2006 , 161, 559-570	0.9	3
32	Ag ⁺ ion transport studies in a polyvinyl alcohol-based polymer electrolyte system. <i>Journal of Solid State Electrochemistry</i> , 2006 , 10, 193-197	2.6	45
31	Structural and impedance analysis of LiBiP ₂ O ₇ . <i>Journal of Solid State Electrochemistry</i> , 2006 , 10, 434-438	2.6	2
30	Ionic conductivity studies on Sr stabilized zirconia by impedance spectroscopy. <i>Ionics</i> , 2005 , 11, 362-365	2.7	6

29	Transport mechanism of Cu-ion conducting PVA based solid-polymer electrolyte. <i>Ionics</i> , 2005 , 11, 436-441	1.7	57
28	Ion dynamic studies on Li ₃ CaZr(PO ₄) ₃ . <i>Journal of Materials Science</i> , 2004 , 39, 727-729	4.3	4
27	Dielectric and conductivity relaxations in PVAc based polymer electrolytes. <i>Ionics</i> , 2004 , 10, 129-134	2.7	69
26	AC impedance studies on proton conducting polymer electrolyte complexes (PVA+CH ₃ COONH ₄). <i>Ionics</i> , 2004 , 10, 135-138	2.7	44
25	Natural indoor gamma background in Coonoor environment of South India. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2002 , 252, 413-419	1.5	3
24	Radon and thoron progeny levels in air samples at Udagamandalam region of Nilgiris in India. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2002 , 252, 249-254	1.5	2
23	Natural radiation distribution of soils at Kotagiri Taluk of the Nilgiris biosphere in India. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2002 , 252, 429-435	1.5	13
22	A study on the radon concentration in water in Coonoor, India. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2002 , 252, 345-347	1.5	12
21	Synthesis and Electrical Characterization of Gd doped Lithium Phosphate 2002 ,		1
20	Natural radionuclide distribution in soils of Gudalore, India. <i>Applied Radiation and Isotopes</i> , 2000 , 52, 299-306	1.7	55
19	Study of the superionic system AgI-PbI ₂ -Ag ₂ O-B ₂ O ₃ . <i>Ionics</i> , 2000 , 6, 203-209	2.7	
18	Contributory presentations/posters. <i>Journal of Biosciences</i> , 1999 , 24, 33-198	2.3	
17	Vibrational Studies of Gel Grown Ferroelectric RbHC ₄ H ₄ O ₆ and SrC ₄ H ₄ O ₆ 4H ₂ O Crystals. <i>Crystal Research and Technology</i> , 1999 , 34, 873-880	1.3	8
16	A Study of the Superionic Conductor X[a(AgBr):b(PbBr ₂):Y[c(Ag ₂ O):d(B ₂ O ₃)]. <i>Physica Status Solidi A</i> , 1998 , 168, 49-54		1
15	Optical absorption, photoluminescence, and thermally stimulated luminescence of CsCl: Tb crystals. <i>Physica Status Solidi (B): Basic Research</i> , 1996 , 194, 747-756	1.3	12
14	A study of a fast ionic conductor AgI-CsI. <i>Physica Status Solidi (B): Basic Research</i> , 1996 , 197, 13-17	1.3	4
13	Thermoluminescence and optical studies on CsBr: Ca ²⁺ and CsCl:Ca ²⁺ crystals and its application to dosimetry. <i>Physica Status Solidi A</i> , 1995 , 148, 311-320		2
12	Thermoluminescence of CsCl:Eu crystals irradiated with β -rays. <i>Physica Status Solidi A</i> , 1994 , 141, 457-462		5

11	A Study on Cationic Substituted Silver Iodide. <i>Crystal Research and Technology</i> , 1993 , 28, K1-K4	1.3	0
10	FT-IR and Raman Spectra of Ammonium Hydrogen Tartrate and Potassium Hydrogen Tartrate Crystals. <i>Crystal Research and Technology</i> , 1993 , 28, 665-670	1.3	7
9	Vibrational Studies of Magnesium Hydrogen Phosphate- and Barium Hydrogen Phosphate Crystals. <i>Crystal Research and Technology</i> , 1993 , 28, 1139-1145	1.3	2
8	Thermally Stimulated Emission Spectra of Irradiated CsCl Crystals. <i>Physica Status Solidi A</i> , 1993 , 136, 229-234		8
7	Control of Nucleation in Gel by GNGT II. <i>Crystal Research and Technology</i> , 1992 , 27, 1033-1036	1.3	5
6	Corn silk extractBased solid-state biopolymer electrolyte and its application to electrochemical storage devices. <i>Ionics</i> ,1	2.7	2
5	Na-ion conducting biopolymer electrolyte based on tamarind seed polysaccharide incorporated with sodium perchlorate for primary sodium-ion batteries. <i>Ionics</i> ,1	2.7	0
4	Study on novel biopolymer electrolyte Moringa oleifera gum with ammonium nitrate. <i>Polymer Bulletin</i> ,1	2.4	3
3	Synthesis and characterization of Dextran, poly (vinyl alcohol) blend biopolymer electrolytes with NH ₄ NO ₃ , for electrochemical applications. <i>International Journal of Green Energy</i> ,1-17	3	3
2	Effect of graphene quantum dot on sodium alginate with ammonium formate (NH ₄ HCO ₂) biopolymer electrolytes for the application of electrochemical devices. <i>Ionics</i> ,1	2.7	0
1	Facile chemical synthesis and electrochemical studies of CNO-CGO nanocomposite electrolytes for LTOFC application. <i>Journal of the Australian Ceramic Society</i> ,1	1.5	