Ramesh T. Subramaniam

List of Publications by Year
in descending order

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285	13,909	18482 62	32842 100
papers	citations	h-index	g-index

288	288	288	10762
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electrolyte selection for supercapacitive devices: a critical review. Nanoscale Advances, 2019, 1, 3807-3835.	4.6	702
2	A review of polymer electrolytes: fundamental, approaches and applications. Ionics, 2016, 22, 1259-1279.	2.4	488
3	FTIR studies of PVC/PMMA blend based polymer electrolytes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2007, 66, 1237-1242.	3.9	350
4	Fundamental Concepts of Hydrogels: Synthesis, Properties, and Their Applications. Polymers, 2020, 12, 2702.	4.5	321
5	Ionic conductivity studies of plasticized poly(vinyl chloride) polymer electrolytes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2001, 85, 11-15.	3.5	236
6	Dielectric behaviour of PVC-based polymer electrolytes. Solid State Ionics, 2002, 152-153, 291-294.	2.7	228
7	Ionic conductivity studies of poly(vinyl alcohol) alkaline solid polymer electrolyte and its use in nickelâ€“zinc cells. Solid State Ionics, 2003, 156, 171-177.	2.7	190
8	Conductivity and FTIR studies on PEOâ€“LiX [X: CF3SO3âˆ’, SO42âˆ’] polymer electrolytes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 69, 670-675.	3.9	171
9	Facile sonochemical synthesis of nanostructured NiO with different particle sizes and its electrochemical properties for supercapacitor application. Journal of Colloid and Interface Science, 2016, 471, 136-144.	9.4	171
10	Good prospect of ionic liquid based-poly(vinyl alcohol) polymer electrolytes for supercapacitors with excellent electrical, electrochemical and thermal properties. International Journal of Hydrogen Energy, 2014, 39, 2953-2963.	7.1	167
11	Ultrahigh capacitance of amorphous nickel phosphate for asymmetric supercapacitor applications. RSC Advances, 2016, 6, 76298-76306.	3.6	167
12	Facile fabrication of cobalt oxide nanograin-decorated reduced graphene oxide composite as ultrasensitive platform for dopamine detection. Sensors and Actuators B: Chemical, 2017, 238, 1043-1051.	7.8	163
13	Amelioration of anticorrosion and hydrophobic properties of epoxy/PDMS composite coatings containing nano ZnO particles. Progress in Organic Coatings, 2016, 92, 54-65.	3.9	162
14	Recognition and classification of paddy leaf diseases using Optimized Deep Neural network with Jaya algorithm. Information Processing in Agriculture, 2020, 7, 249-260.	4.1	162
15	Binary composite of polyaniline/copper cobaltite for high performance asymmetric supercapacitor application. Electrochimica Acta, 2017, 227, 41-48.	5.2	161
16	Ion conducting corn starch biopolymer electrolytes doped with ionic liquid 1-butyl-3-methylimidazolium hexafluorophosphate. Journal of Non-Crystalline Solids, 2011, 357, 3654-3660.	3.1	144
17	Application of modified NSGA-II algorithm to multi-objective reactive power planning. Applied Soft Computing Journal, 2012, 12, 741-753.	7.2	140
18	Effect of ethylene carbonate on the ionic conduction in poly(vinylidenefluoride-hexafluoropropylene) based solid polymer electrolytes. Polymer Chemistry, 2010, 1, 702.	3.9	135

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19	Evaluation and investigation on the effect of ionic liquid onto PMMA-PVC gel polymer blend electrolytes. Journal of Non-Crystalline Solids, 2011, 357, 2132-2138.	3.1	131
20	Enhanced electrochemical performance of cobalt oxide nanocube intercalated reduced graphene oxide for supercapacitor application. RSC Advances, 2016, 6, 34894-34902.	3.6	131
21	Investigation of mechanical properties of polyvinyl chlorideâ€“polyethylene oxide (PVCâ€“PEO) based polymer electrolytes for lithium polymer cells. European Polymer Journal, 2007, 43, 1963-1968.	5.4	129
22	Conductivity, dielectric behavior and FTIR studies of high molecular weight poly(vinylchloride)â€“lithium triflate polymer electrolytes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 139, 240-245.	3.5	128
23	Structural, thermal and electrochemical cell characteristics of poly(vinyl chloride)-based polymer electrolytes. Journal of Power Sources, 2001, 99, 41-47.	7.8	124
24	Capacitive behavior studies on electrical double layer capacitor using poly (vinyl alcohol)â€“lithium perchlorate based polymer electrolyte incorporated with TiO2. Materials Chemistry and Physics, 2014, 143, 661-667.	4.0	121
25	A promising binary nanocomposite of zinc cobaltite intercalated with polyaniline for supercapacitor and hydrazine sensor. Journal of Alloys and Compounds, 2017, 716, 96-105.	5.5	121
26	Enhancing rate capability of amorphous nickel phosphate supercapattery electrode via composition with crystalline silver phosphate. Electrochimica Acta, 2018, 273, 216-228.	5.2	121
27	Characterization of ionic liquid added poly(vinylÂalcohol)-based proton conducting polymer electrolytes and electrochemical studiesÂon the supercapacitors. International Journal of Hydrogen Energy, 2015, 40, 852-862.	7.1	114
28	Electrical, structural, thermal and electrochemical properties of corn starch-based biopolymer electrolytes. Carbohydrate Polymers, 2015, 124, 222-228.	10.2	112
29	A novel coating material that uses nano-sized SiO2 particles to intensify hydrophobicity and corrosion protection properties. Electrochimica Acta, 2016, 220, 417-426.	5.2	109
30	Densification behaviour of nanocrystalline hydroxyapatite bioceramics. Journal of Materials Processing Technology, 2008, 206, 221-230.	6.3	107
31	Enhanced capacitance of EDLCs (electrical double layer capacitors) based on ionic liquid-added polymer electrolytes. Energy, 2016, 109, 546-556.	8.8	106
32	Studies on SiO2-hybrid polymeric nanocomposite coatings with superior corrosion protection and hydrophobicity. Surface and Coatings Technology, 2017, 324, 536-545.	4.8	102
33	Effect of PVC on ionic conductivity, crystallographic structural, morphological and thermal characterizations in PMMAâ€“PVC blend-based polymer electrolytes. Thermochimica Acta, 2010, 511, 140-146.	2.7	100
34	A novel approach on ionic liquid-based poly(vinyl alcohol) proton conductive polymer electrolytes for fuel cell applications. International Journal of Hydrogen Energy, 2014, 39, 2917-2928.	7.1	97
35	Conducting polymer and its composite materials based electrochemical sensor for Nicotinamide Adenine Dinucleotide (NADH). Biosensors and Bioelectronics, 2016, 79, 763-775.	10.1	88
36	High performance supercapattery incorporating ternary nanocomposite of multiwalled carbon nanotubes decorated with Co3O4 nanograins and silver nanoparticles as electrode material. Electrochimica Acta, 2018, 278, 72-82.	5.2	88

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37	Investigation on the effects of addition of SiO2 nanoparticles on ionic conductivity, FTIR, and thermal properties of nanocomposite PMMAâ€“LiCF3SO3â€“SiO2. Ionics, 2010, 16, 255-262.	2.4	87
38	Sintering behaviour of natural porous hydroxyapatite derived from bovine bone. Ceramics International, 2015, 41, 3024-3029.	4.8	87
39	Electrical, structural, and thermal studies of antimony trioxide-doped poly(acrylic acid)-based composite polymer electrolytes. Ionics, 2014, 20, 665-674.	2.4	86
40	Consolidation of nanocrystalline hydroxyapatite powder. Science and Technology of Advanced Materials, 2007, 8, 124-130.	6.1	85
41	Investigation on structural and electrochemical properties of binder free nanostructured nickel oxide thin film. Materials Letters, 2015, 161, 694-697.	2.6	82
42	Direct conversion of eggshell to hydroxyapatite ceramic by a sintering method. Ceramics International, 2016, 42, 7824-7829.	4.8	82
43	Rheological characterisation and printing performance of Sn/Ag/Cu solder pastes. Materials & Design, 2009, 30, 3812-3818.	5.1	80
44	Poly(methyl methacrylate-co-butyl acrylate-co-acrylic acid): Physico-chemical characterization and targeted dye sensitized solar cell application. Materials and Design, 2016, 108, 560-569.	7.0	79
45	An enhanced performance of hybrid supercapacitor based on polyaniline-manganese phosphate binary composite. Journal of Solid State Electrochemistry, 2017, 21, 3205-3213.	2.5	79
46	Comparison between microwave and conventional sintering on the properties and microstructural evolution of tetragonal zirconia. Ceramics International, 2018, 44, 8922-8927.	4.8	79
47	Rapid densification of nanocrystalline hydroxyapatite for biomedical applications. Ceramics International, 2007, 33, 1363-1367.	4.8	78
48	Characterization of conducting cellulose acetate based polymer electrolytes doped with â€œgreenâ€• ionic mixture. Carbohydrate Polymers, 2013, 91, 14-21.	10.2	78
49	Investigation of ionic liquid-doped ion conducting polymer electrolytes for carbon-based electric double layer capacitors (EDLCs). Materials and Design, 2016, 92, 829-835.	7.0	78
50	Green synthesized carbon nanodots as a fluorescent probe for selective and sensitive detection of iron(III) ions. Materials Letters, 2014, 136, 179-182.	2.6	77
51	Synthesis, characterization, properties of N-succinyl chitosan-g-poly (methacrylic acid) hydrogels and inÂvitro release of theophylline. Polymer, 2016, 92, 36-49.	3.8	77
52	Synthesis and characterization of karaya gum-g- poly (acrylic acid) hydrogels and inÂvitro release of hydrophobic quercetin. Polymer, 2018, 147, 108-120.	3.8	75
53	Preparation and characterization of lithium ion conducting ionic liquid-based biodegradable corn starch polymer electrolytes. Journal of Solid State Electrochemistry, 2012, 16, 1869-1875.	2.5	74
54	Electric double-layer capacitors with corn starch-based biopolymer electrolytes incorporating silica as filler. Ionics, 2015, 21, 2061-2068.	2.4	72

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55	An Approach to Solid-State Electrical Double Layer Capacitors Fabricated with Graphene Oxide-Doped, Ionic Liquid-Based Solid Copolymer Electrolytes. Materials, 2016, 9, 450.	2.9	70
56	Ionic liquid enhanced magnesium-based polymer electrolytes for electrical double-layer capacitors. Ionics, 2016, 22, 919-925.	2.4	70
57	Hydroxypropyl Cellulose Based Non-Volatile Gel Polymer Electrolytes for Dye-Sensitized Solar Cell Applications using 1-methyl-3-propylimidazolium iodide ionic liquid. Scientific Reports, 2015, 5, 18056.	3.3	68
58	Optimal reactive power dispatch for real power loss minimization and voltage stability enhancement using Artificial Bee Colony Algorithm. Microprocessors and Microsystems, 2020, 76, 103085.	2.8	68
59	Effects of silicate and carbonate substitution on the properties of hydroxyapatite prepared by aqueous co-precipitation method. Materials and Design, 2015, 87, 788-796.	7.0	67
60	pH responsive N-succinyl chitosan/Poly (acrylamide-co-acrylic acid) hydrogels and in vitro release of 5-fluorouracil. PLoS ONE, 2017, 12, e0179250.	2.5	67
61	Dielectric and FTIR studies on blending of [xPMMAâ€“(1â^'x)PVC] with LiTFSI. Measurement: Journal of the International Measurement Confederation, 2013, 46, 1650-1656.	5.0	66
62	Characteristics and properties of hydoxyapatite derived by solâ€“gel and wet chemical precipitation methods. Ceramics International, 2015, 41, 10434-10441.	4.8	66
63	Studies on the plasticization efficiency of deep eutectic solvent in suppressing the crystallinity of corn starch based polymer electrolytes. Carbohydrate Polymers, 2012, 87, 701-706.	10.2	65
64	New perspectives on Graphene/Graphene oxide based polymer nanocomposites for corrosion applications: The relevance of the Graphene/Polymer barrier coatings. Progress in Organic Coatings, 2021, 154, 106215.	3.9	65
65	Comparing Triflate and Hexafluorophosphate Anions of Ionic Liquids in Polymer Electrolytes for Supercapacitor Applications. Materials, 2014, 7, 4019-4033.	2.9	63
66	Electric double layer capacitor based on activated carbon electrode and biodegradable composite polymer electrolyte. Ionics, 2014, 20, 251-258.	2.4	63
67	An investigation on PANâ€“PVCâ€“LiTFSI based polymer electrolytes system. Solid State Ionics, 2011, 192, 2-5.	2.7	62
68	Impact of low viscosity ionic liquid on PMMAâ€“PVCâ€–LiTFSI polymer electrolytes based on AC -impedance, dielectric behavior, and HATRâ€“FTIR characteristics. Journal of Materials Research, 2012, 27, 2996-3004.	2.6	61
69	Solid polymer electrolytes based on poly(vinyl alcohol) incorporated with sodium salt and ionic liquid for electrical double layer capacitor. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 251, 114468.	3.5	61
70	Effects of manganese doping on properties of solâ€“gel derived biphasic calcium phosphate ceramics. Ceramics International, 2011, 37, 3703-3715.	4.8	60
71	Effect of lithium salt concentration on crystallinity of poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 107 Td (fluoride-co 2011, 994, 403-409.	3.6	60
72	Lithium ion conduction in corn starch based solid polymer electrolytes. Measurement: Journal of the International Measurement Confederation, 2014, 48, 87-95.	5.0	60

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73	Anticorrosion properties of epoxy-nanochitosan nanocomposite coating. Progress in Organic Coatings, 2017, 113, 74-81.	3.9	60
74	Effect of two-step sintering on the hydrothermal ageing resistance of tetragonal zirconia polycrystals. Ceramics International, 2017, 43, 7594-7599.	4.8	59
75	Poly(Acrylic acid)â€“Based Hybrid Inorganicâ€“Organic Electrolytes Membrane for Electrical Double Layer Capacitors Application. Polymers, 2016, 8, 179.	4.5	58
76	Polymer electrolyte based dye-sensitized solar cell with rice starch and 1-methyl-3-propylimidazolium iodide ionic liquid. Materials and Design, 2015, 85, 833-837.	7.0	57
77	Effect of multi-ions doping on the properties of carbonated hydroxyapatite bioceramic. Ceramics International, 2019, 45, 3473-3477.	4.8	57
78	A review on the recent advances in binder-free electrodes for electrochemical energy storage application. Journal of Energy Storage, 2022, 50, 104283.	8.1	57
79	Novel poly(vinylidene fluoride-co-hexafluoro propylene)/polyethylene oxide based gel polymer electrolyte containing fumed silica (SiO2) nanofiller for high performance dye-sensitized solar cell. Electrochimica Acta, 2016, 220, 573-580.	5.2	56
80	Enhancing the performance of green solid-state electric double-layer capacitor incorporated with fumed silica nanoparticles. Journal of Physics and Chemistry of Solids, 2018, 117, 194-203.	4.0	56
81	A concise review on corrosion inhibitors: types, mechanisms and electrochemical evaluation studies. Journal of Coatings Technology Research, 2022, 19, 241-268.	2.5	55
82	Plasticizing effect of 1-allyl-3-methylimidazolium chloride in cellulose acetate based polymer electrolytes. Carbohydrate Polymers, 2012, 87, 2624-2629.	10.2	54
83	Sonochemical synthesis of nanostructured nickel hydroxide as an electrode material for improved electrochemical energy storage application. Progress in Natural Science: Materials International, 2017, 27, 416-423.	4.4	54
84	Conducting polymer/graphene hydrogel electrodes based aqueous smart Supercapacitors: A review and future prospects. Journal of Electroanalytical Chemistry, 2021, 898, 115626.	3.8	54
85	Conductivity, dielectric behaviour and thermal stability studies of lithium ion dissociation in poly(methyl methacrylate)-based gel polymer electrolytes. Ionics, 2009, 15, 249-254.	2.4	53
86	Influence of acrylic acid on ethylene carbonate/dimethyl carbonate based liquid electrolyte and its supercapacitor application. International Journal of Hydrogen Energy, 2017, 42, 30683-30690.	7.1	53
87	A review on plant extracts as natural additives in coating applications. Progress in Organic Coatings, 2021, 151, 106091.	3.9	53
88	Effect of CeO2 nano powder as additive in WME-TPO blend to control toxic emissions from a light-duty diesel engine â€“ An experimental study. Fuel, 2020, 278, 118177.	6.4	52
89	N-succinyl chitosan preparation, characterization, properties and biomedical applications: a state of the art review. Reviews in Chemical Engineering, 2015, 31, .	4.4	51
90	Effect of different imidazolium-based ionic liquids on gel polymer electrolytes for dye-sensitized solar cells. Ionics, 2019, 25, 2427-2435.	2.4	51

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91	Impedance and FTIR studies on plasticized PMMAâ€“LiN(CF3SO2)2 nanocomposite polymer electrolytes. Ionics, 2010, 16, 465-473.	2.4	49
92	Miscibility studies of PVC blends (PVC/PMMA and PVC/PEO) based polymer electrolytes. Solid State Ionics, 2002, 148, 483-486.	2.7	48
93	Polyaniline-SrTiO3 nanocube based binary nanocomposite as highly stable electrode material for high performance supercapaterry. Ceramics International, 2019, 45, 11428-11437.	4.8	48
94	Effect of nanosized silica in poly(methyl methacrylate)â€“lithium bis(trifluoromethanesulfonyl)imide based polymer electrolytes. Journal of Power Sources, 2008, 185, 1439-1443.	7.8	47
95	Studies on the structure and transport properties of hexanoyl chitosan-based polymer electrolytes. Physica B: Condensed Matter, 2009, 404, 4308-4311.	2.7	47
96	Physico-chemical characterization of pH-sensitive N -Succinyl chitosan- g -poly (acrylamide- co -acrylic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	5.8	46
97	Ternary nanocomposite of cobalt oxide nanograins and silver nanoparticles grown on reduced graphene oxide conducting platform for high-performance supercapattery electrode material. Journal of Alloys and Compounds, 2020, 821, 153452.	5.5	46
98	TRANSPORT MECHANISM STUDIES OF CHITOSAN ELECTROLYTE SYSTEMS. Electrochimica Acta, 2015, 175, 68-73.	5.2	45
99	Efficiency improvement by incorporating 1-methyl-3-propylimidazolium iodide ionic liquid in gel polymer electrolytes for dye-sensitized solar cells. Electrochimica Acta, 2015, 175, 169-175.	5.2	45
100	Transparent self-cleaning coating of modified polydimethylsiloxane (PDMS) for real outdoor application. Progress in Organic Coatings, 2019, 131, 232-239.	3.9	45
101	Facile sonochemical synthesis of 2D porous Co3O4 nanoflake for supercapattery. Journal of Alloys and Compounds, 2020, 819, 153019.	5.5	45
102	Studies on ionic liquid-based corn starch biopolymer electrolytes coupling with high ionic transport number. Cellulose, 2013, 20, 3227-3237.	4.9	44
103	The conductivity and dielectric studies of solid polymer electrolytes based on poly (acrylamide-co-acrylic acid) doped with sodium iodide. Ionics, 2018, 24, 1947-1953.	2.4	44
104	Synthesis and characterization of hybrid poly (N, N-dimethylacrylamide) composite hydrogel electrolytes and their performance in supercapacitor. Electrochimica Acta, 2020, 332, 135438.	5.2	44
105	Formulation and characterization of hybrid polymeric/ZnO nanocomposite coatings with remarkable anti-corrosion and hydrophobic characteristics. Journal of Coatings Technology Research, 2016, 13, 921-930.	2.5	43
106	Degradation of ultra-high molecular weight poly(methyl methacrylate-co-butyl acrylate-co-acrylic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.6	43
107	Rheological behavior of biodegradable N-succinyl chitosan-g-poly (acrylic acid) hydrogels and their applications as drug carrier and in vitro theophylline release. International Journal of Biological Macromolecules, 2018, 117, 454-466.	7.5	43
108	Development of asymmetric device using Co3(PO4)2 as a positive electrode for energy storage application. Journal of Materials Science: Materials in Electronics, 2019, 30, 7435-7446.	2.2	43

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109	Characterization of polymer electrolytes based on high molecular weight PVC and Li2SO4. Current Applied Physics, 2009, 9, 329-332.	2.4	42
110	Towards magnesium ion conducting poly(vinylidenefluoride-hexafluoropropylene)-based solid polymer electrolytes with great prospects: Ionic conductivity and dielectric behaviours. Journal of the Taiwan Institute of Chemical Engineers, 2012, 43, 806-812.	5.3	42
111	Exploration on nano-composite fumed silica-based composite polymer electrolytes with doping of ionic liquid. Journal of Non-Crystalline Solids, 2012, 358, 931-940.	3.1	42
112	Development and Characterization of Poly(1-vinylpyrrolidone-co-vinyl acetate) Copolymer Based Polymer Electrolytes. Scientific World Journal, The, 2014, 2014, 1-7.	2.1	42
113	Binary nanocomposite based on Co3O4 nanocubes and multiwalled carbon nanotubes as an ultrasensitive platform for amperometric determination of dopamine. Mikrochimica Acta, 2017, 184, 2739-2748.	5.0	42
114	Synthesis and characterization of self-healable poly (acrylamide) hydrogel electrolytes and their application in fabrication of aqueous supercapacitors. Polymer, 2020, 210, 123020.	3.8	42
115	Electrical conductivity studies of polyvinyl chloride-based electrolytes with double salt system. Solid State Ionics, 2000, 136-137, 1197-1200.	2.7	41
116	Enhancing the Efficiency of a Dye-Sensitized Solar Cell Based on a Metal Oxide Nanocomposite Gel Polymer Electrolyte. ACS Applied Materials & Interfaces, 2019, 11, 30185-30196.	8.0	41
117	Facile synthesis of ternary nanocomposite of polypyrrole incorporated with cobalt oxide and silver nanoparticles for high performance supercapattery. Electrochimica Acta, 2020, 348, 136313.	5.2	41
118	Investigation on the effect of nanosilica towards corn starchâ€“lithium perchlorate-based polymer electrolytes. Journal of Solid State Electrochemistry, 2012, 16, 3165-3170.	2.5	40
119	Micro-arc oxidation of bioceramic coatings containing eggshell-derived hydroxyapatite on titanium substrate. Ceramics International, 2019, 45, 18371-18381.	4.8	39
120	Sintering behaviour and properties of manganese-doped alumina. Ceramics International, 2019, 45, 7049-7054.	4.8	39
121	Nanocomposite polymer electrolyte based on rice starch/ionic liquid/TiO2 nanoparticles for solar cell application. Measurement: Journal of the International Measurement Confederation, 2014, 58, 68-72.	5.0	38
122	Rheological Studies of PMMAâ€“PVC Based Polymer Blend Electrolytes with LiTFSI as Doping Salt. PLoS ONE, 2014, 9, e102815.	2.5	37
123	Performance enhancement of poly (vinylidene fluoride-co-hexafluoro propylene)/polyethylene oxide based nanocomposite polymer electrolyte with ZnO nanofiller for dye-sensitized solar cell. Organic Electronics, 2017, 49, 292-299.	2.6	36
124	Modeling and control of diesel engines: A systematic review. AEJ - Alexandria Engineering Journal, 2018, 57, 4033-4048.	6.4	36
125	An improved generalized differential evolution algorithm for multi-objective reactive power dispatch. Engineering Optimization, 2012, 44, 391-405.	2.6	35
126	Effect of different iodide salts on ionic conductivity and structural and thermal behavior of rice-starch-based polymer electrolytes for dye-sensitized solar cell application. Ionics, 2015, 21, 2383-2391.	2.4	35

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127	Facile synthesize of transparent hydrophobic nano- CaCO3 based coatings for self-cleaning and anti-fogging. Materials Chemistry and Physics, 2020, 239, 121913.	4.0	35
128	Three-dimensional hierarchical nanostructured porous TiO2 aerogel/Cobalt based metal-organic framework (MOF) composite as an electrode material for supercapattery. Journal of Energy Storage, 2020, 32, 101750.	8.1	35
129	Effects of ionic liquid on the hydroxylpropylmethyl cellulose (HPMC) solid polymer electrolyte. Ionics, 2016, 22, 2421-2430.	2.4	34
130	Influence of different concentrations of 4-tert-butyl-pyridine in a gel polymer electrolyte towards improved performance of Dye-Sensitized Solar Cells (DSSC). Solar Energy, 2021, 216, 111-119.	6.1	34
131	Conductivity, dielectric studies and structural properties of P(VA-co-PE) and its application in dye sensitized solar cell. Organic Electronics, 2018, 56, 116-124.	2.6	33
132	Effects of TiO2 Nanoparticles on the Overall Performance and Corrosion Protection Ability of Neat Epoxy and PDMS Modified Epoxy Coating Systems. Frontiers in Materials, 2020, 6, .	2.4	33
133	Effect of pH on the properties of eggshell-derived hydroxyapatite bioceramic synthesized by wet chemical method assisted by microwave irradiation. Ceramics International, 2021, 47, 8879-8887.	4.8	33
134	Advances in materials and fabrication of separators in supercapacitors. Materials Advances, 2022, 3, 1472-1496.	5.4	33
135	Studies on the thermal behavior of CS:LiTFSI:[Amim] Cl polymer electrolytes exerted by different [Amim] Cl content. Solid State Sciences, 2012, 14, 182-186.	3.2	32
136	FTIR spectra of plasticized high molecular weight PVCâ€“LiCF3SO3 electrolytes. Ionics, 2009, 15, 413-420.	2.4	31
137	Comparison of the performance of copper oxide and yttrium oxide nanoparticle based hydroxylethyl cellulose electrolytes for supercapacitors. Journal of Applied Polymer Science, 2017, 134, .	2.6	31
138	The conductivity and dielectric studies of polymer electrolytes based on iota-carrageenan with sodium iodide and 1-butyl-3-methylimidazolium iodide for the dye-sensitized solar cells. Ionics, 2019, 25, 763-771.	2.4	31
139	Poly (1-vinylpyrrolidone-co-vinyl acetate) (PVP-co-VAc) based gel polymer electrolytes for electric double layer capacitors (EDLC). Journal of Polymer Research, 2020, 27, 1.	2.4	31
140	Electrical, thermal, and structural studies on highly conducting additive-free biopolymer electrolytes for electric double-layer capacitor application. Ionics, 2019, 25, 4861-4874.	2.4	30
141	Effect of dibutyl phthalate as plasticizer on high-molecular weight poly(vinyl chloride)â€“lithium tetraborate-based solid polymer electrolytes. Ionics, 2011, 17, 705-713.	2.4	29
142	Exploration on the P(VP-co-VAc) copolymer based gel polymer electrolytes doped with quaternary ammonium iodide salt for DSSC applications: Electrochemical behaviors and photovoltaic performances. Organic Electronics, 2015, 22, 132-139.	2.6	29
143	Efficiency enhancement of dye-sensitized solar cell based gel polymer electrolytes using Poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlo Semiconductor Processing, 2019, 91, 414-421.	4.0	29
144	Innovative application of biopolymer composite as proton exchange membrane in microbial fuel cell utilizing real wastewater for electricity generation. Journal of Cleaner Production, 2021, 278, 123449.	9.3	29

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145	Exerted influence of deep eutectic solvent concentration in the room temperature ionic conductivity and thermal behavior of corn starch based polymer electrolytes. Journal of Molecular Liquids, 2012, 166, 40-43.	4.9	28
146	Investigation of ionic liquid-based poly(vinyl alcohol) proton conductor for electrochemical double-layer capacitor. High Performance Polymers, 2014, 26, 632-636.	1.8	28
147	Electrical and structural studies of ionic liquid-based poly(vinyl alcohol) proton conductors. Journal of Non-Crystalline Solids, 2015, 425, 163-172.	3.1	28
148	Effect of ethylene carbonate in poly (methyl methacrylate)-lithium tetraborate based polymer electrolytes. Journal of Non-Crystalline Solids, 2011, 357, 1357-1363.	3.1	27
149	Preparation and characterization of poly (ethyl methacrylate) based polymer electrolytes doped with 1-butyl-3-methylimidazolium trifluoromethanesulfonate. Measurement: Journal of the International Measurement Confederation, 2014, 48, 263-273.	5.0	27
150	Presence of NaI in PEO/PVdF-HFP blend based gel polymer electrolytes for fabrication of dye-sensitized solar cells. Materials Science in Semiconductor Processing, 2017, 66, 144-148.	4.0	27
151	Conductivity, Mechanical and Thermal Studies on Poly(methyl methacrylate)-Based Polymer Electrolytes Complexed with Lithium Tetraborate and Propylene Carbonate. Journal of Materials Engineering and Performance, 2012, 21, 89-94.	2.5	26
152	Studies on biodegradable polymer electrolyte rice starch (RS) complexed with lithium iodide. Ionics, 2014, 20, 691-695.	2.4	26
153	Sintering behaviour of carbonated hydroxyapatite prepared at different carbonate and phosphate ratios. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2020, 59, 73-80.	1.9	26
154	Effects of sintering additives on the densification and properties of alumina-toughened zirconia ceramic composites. Ceramics International, 2020, 46, 27539-27549.	4.8	26
155	A simple P(VdF-HFP)â€“LiTf system yielding highly ionic conducting and thermally stable solid polymer electrolytes. Journal of Molecular Liquids, 2013, 177, 73-77.	4.9	25
156	Exploring the effect of novel N-butyl-6-methylquinolinium bis(trifluoromethylsulfonyl)imide ionic liquid addition to poly(methyl methacrylate-co-methacrylic) acid electrolyte system as employed in gel-state dye sensitized solar cells. Electrochimica Acta, 2017, 240, 361-370.	5.2	25
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