

# Ramesh Kasi

## List of Publications by Year in descending order

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170  
papers

6,485  
citations

57752

44  
h-index

82542

72  
g-index

172  
all docs

172  
docs citations

172  
times ranked

5486  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of polymer electrolytes: fundamental, approaches and applications. <i>Ionics</i> , 2016, 22, 1259-1279.	2.4	488
2	Fundamental Concepts of Hydrogels: Synthesis, Properties, and Their Applications. <i>Polymers</i> , 2020, 12, 2702.	4.5	321
3	Facile sonochemical synthesis of nanostructured NiO with different particle sizes and its electrochemical properties for supercapacitor application. <i>Journal of Colloid and Interface Science</i> , 2016, 471, 136-144.	9.4	171
4	Ultrahigh capacitance of amorphous nickel phosphate for asymmetric supercapacitor applications. <i>RSC Advances</i> , 2016, 6, 76298-76306.	3.6	167
5	Facile fabrication of cobalt oxide nanograin-decorated reduced graphene oxide composite as ultrasensitive platform for dopamine detection. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 1043-1051.	7.8	163
6	Amelioration of anticorrosion and hydrophobic properties of epoxy/PDMS composite coatings containing nano ZnO particles. <i>Progress in Organic Coatings</i> , 2016, 92, 54-65.	3.9	162
7	Binary composite of polyaniline/copper cobaltite for high performance asymmetric supercapacitor application. <i>Electrochimica Acta</i> , 2017, 227, 41-48.	5.2	161
8	Evaluation and investigation on the effect of ionic liquid onto PMMA-PVC gel polymer blend electrolytes. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 2132-2138.	3.1	131
9	Enhanced electrochemical performance of cobalt oxide nanocube intercalated reduced graphene oxide for supercapacitor application. <i>RSC Advances</i> , 2016, 6, 34894-34902.	3.6	131
10	A promising binary nanocomposite of zinc cobaltite intercalated with polyaniline for supercapacitor and hydrazine sensor. <i>Journal of Alloys and Compounds</i> , 2017, 716, 96-105.	5.5	121
11	Enhancing rate capability of amorphous nickel phosphate supercapattery electrode via composition with crystalline silver phosphate. <i>Electrochimica Acta</i> , 2018, 273, 216-228.	5.2	121
12	A novel coating material that uses nano-sized SiO <sub>2</sub> particles to intensify hydrophobicity and corrosion protection properties. <i>Electrochimica Acta</i> , 2016, 220, 417-426.	5.2	109
13	Studies on SiO <sub>2</sub> -hybrid polymeric nanocomposite coatings with superior corrosion protection and hydrophobicity. <i>Surface and Coatings Technology</i> , 2017, 324, 536-545.	4.8	102
14	Conducting polymer and its composite materials based electrochemical sensor for Nicotinamide Adenine Dinucleotide (NADH). <i>Biosensors and Bioelectronics</i> , 2016, 79, 763-775.	10.1	88
15	High performance supercapattery incorporating ternary nanocomposite of multiwalled carbon nanotubes decorated with Co <sub>3</sub> O <sub>4</sub> nanograins and silver nanoparticles as electrode material. <i>Electrochimica Acta</i> , 2018, 278, 72-82.	5.2	88
16	Investigation on structural and electrochemical properties of binder free nanostructured nickel oxide thin film. <i>Materials Letters</i> , 2015, 161, 694-697.	2.6	82
17	Poly(methyl methacrylate-co-butyl acrylate-co-acrylic acid): Physico-chemical characterization and targeted dye sensitized solar cell application. <i>Materials and Design</i> , 2016, 108, 560-569.	7.0	79
18	An enhanced performance of hybrid supercapacitor based on polyaniline-manganese phosphate binary composite. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 3205-3213.	2.5	79

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19	Synthesis, characterization, properties of N-succinyl chitosan-g-poly (methacrylic acid) hydrogels and in vitro release of theophylline. <i>Polymer</i> , 2016, 92, 36-49.	3.8	77
20	Synthesis and characterization of karaya gum-g- poly (acrylic acid) hydrogels and in vitro release of hydrophobic quercetin. <i>Polymer</i> , 2018, 147, 108-120.	3.8	75
21	Preparation and characterization of lithium ion conducting ionic liquid-based biodegradable corn starch polymer electrolytes. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 1869-1875.	2.5	74
22	An Approach to Solid-State Electrical Double Layer Capacitors Fabricated with Graphene Oxide-Doped, Ionic Liquid-Based Solid Copolymer Electrolytes. <i>Materials</i> , 2016, 9, 450.	2.9	70
23	Ionic liquid enhanced magnesium-based polymer electrolytes for electrical double-layer capacitors. <i>Ionics</i> , 2016, 22, 919-925.	2.4	70
24	Hydroxypropyl Cellulose Based Non-Volatile Gel Polymer Electrolytes for Dye-Sensitized Solar Cell Applications using 1-methyl-3-propylimidazolium iodide ionic liquid. <i>Scientific Reports</i> , 2015, 5, 18056.	3.3	68
25	pH responsive N-succinyl chitosan/Poly (acrylamide-co-acrylic acid) hydrogels and in vitro release of 5-fluorouracil. <i>PLoS ONE</i> , 2017, 12, e0179250.	2.5	67
26	New perspectives on Graphene/Graphene oxide based polymer nanocomposites for corrosion applications: The relevance of the Graphene/Polymer barrier coatings. <i>Progress in Organic Coatings</i> , 2021, 154, 106215.	3.9	65
27	Solid polymer electrolytes based on poly(vinyl alcohol) incorporated with sodium salt and ionic liquid for electrical double layer capacitor. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 251, 114468.	3.5	61
28	Recent development and prospective of carbonaceous material, conducting polymer and their composite electrode materials for supercapacitor – A review. <i>Journal of Energy Storage</i> , 2022, 52, 104937.	8.1	61
29	Anticorrosion properties of epoxy-nanochitosan nanocomposite coating. <i>Progress in Organic Coatings</i> , 2017, 113, 74-81.	3.9	60
30	Polymer electrolyte based dye-sensitized solar cell with rice starch and 1-methyl-3-propylimidazolium iodide ionic liquid. <i>Materials and Design</i> , 2015, 85, 833-837.	7.0	57
31	A review on the recent advances in binder-free electrodes for electrochemical energy storage application. <i>Journal of Energy Storage</i> , 2022, 50, 104283.	8.1	57
32	Novel poly(vinylidene fluoride-co-hexafluoro propylene)/polyethylene oxide based gel polymer electrolyte containing fumed silica (SiO <sub>2</sub> ) nanofiller for high performance dye-sensitized solar cell. <i>Electrochimica Acta</i> , 2016, 220, 573-580.	5.2	56
33	Enhancing the performance of green solid-state electric double-layer capacitor incorporated with fumed silica nanoparticles. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 117, 194-203.	4.0	56
34	A concise review on corrosion inhibitors: types, mechanisms and electrochemical evaluation studies. <i>Journal of Coatings Technology Research</i> , 2022, 19, 241-268.	2.5	55
35	Sonochemical synthesis of nanostructured nickel hydroxide as an electrode material for improved electrochemical energy storage application. <i>Progress in Natural Science: Materials International</i> , 2017, 27, 416-423.	4.4	54
36	Conducting polymer/graphene hydrogel electrodes based aqueous smart Supercapacitors: A review and future prospects. <i>Journal of Electroanalytical Chemistry</i> , 2021, 898, 115626.	3.8	54

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37	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
38	A review on plant extracts as natural additives in coating applications. Progress in Organic Coatings, 2021, 151, 106091.	3.9	53
39	N-succinyl chitosan preparation, characterization, properties and biomedical applications: a state of the art review. Reviews in Chemical Engineering, 2015, 31, .	4.4	51
40	Effect of different imidazolium-based ionic liquids on gel polymer electrolytes for dye-sensitized solar cells. Ionics, 2019, 25, 2427-2435.	2.4	51
41	Physico-chemical characterization of pH-sensitive N -Succinyl chitosan-g -poly (acrylamide- co -acrylic acid) hydrogels. Journal of Applied Polymer Science, 2018, 141, 46784.	5.8	46
42	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
43	TRANSPORT MECHANISM STUDIES OF CHITOSAN ELECTROLYTE SYSTEMS. Electrochimica Acta, 2015, 175, 68-73.	5.2	45
44	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
45	Transparent self-cleaning coating of modified polydimethylsiloxane (PDMS) for real outdoor application. Progress in Organic Coatings, 2019, 131, 232-239.	3.9	45
46	Facile sonochemical synthesis of 2D porous Co <sub>3</sub> O <sub>4</sub> nanoflake for supercapattery. Journal of Alloys and Compounds, 2020, 819, 153019.	5.5	45
47	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
48	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
49	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
50	Degradation of ultra-high molecular weight poly(methyl methacrylate-co-butyl acrylate-co-acrylic acid) hydrogels. Journal of Applied Polymer Science, 2018, 141, 46784.	3.6	43
51	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
52	Development of asymmetric device using Co <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> as a positive electrode for energy storage application. Journal of Materials Science: Materials in Electronics, 2019, 30, 7435-7446.	2.2	43
53	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
54	Binary nanocomposite based on Co <sub>3</sub> O <sub>4</sub> nanocubes and multiwalled carbon nanotubes as an ultrasensitive platform for amperometric determination of dopamine. Mikrochimica Acta, 2017, 184, 2739-2748.	5.0	42

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55	Synthesis and characterization of self-healable poly (acrylamide) hydrogel electrolytes and their application in fabrication of aqueous supercapacitors. <i>Polymer</i> , 2020, 210, 123020.	3.8	42
56	Enhancing the Efficiency of a Dye-Sensitized Solar Cell Based on a Metal Oxide Nanocomposite Gel Polymer Electrolyte. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 30185-30196.	8.0	41
57	Facile synthesis of ternary nanocomposite of polypyrrole incorporated with cobalt oxide and silver nanoparticles for high performance supercapattery. <i>Electrochimica Acta</i> , 2020, 348, 136313.	5.2	41
58	Performance enhancement of poly (vinylidene fluoride-co-hexafluoro propylene)/polyethylene oxide based nanocomposite polymer electrolyte with ZnO nanofiller for dye-sensitized solar cell. <i>Organic Electronics</i> , 2017, 49, 292-299.	2.6	36
59	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. <i>Ionics</i> , 2015, 21, 2383-2391.	2.4	35
60	Facile synthesise of transparent hydrophobic nano- CaCO <sub>3</sub> based coatings for self-cleaning and anti-fogging. <i>Materials Chemistry and Physics</i> , 2020, 239, 121913.	4.0	35
61	Three-dimensional hierarchical nanostructured porous TiO <sub>2</sub> aerogel/Cobalt based metal-organic framework (MOF) composite as an electrode material for supercapattery. <i>Journal of Energy Storage</i> , 2020, 32, 101750.	8.1	35
62	Effects of ionic liquid on the hydroxylpropylmethyl cellulose (HPMC) solid polymer electrolyte. <i>Ionics</i> , 2016, 22, 2421-2430.	2.4	34
63	Influence of different concentrations of 4-tert-butyl-pyridine in a gel polymer electrolyte towards improved performance of Dye-Sensitized Solar Cells (DSSC). <i>Solar Energy</i> , 2021, 216, 111-119.	6.1	34
64	Conductivity, dielectric studies and structural properties of P(VA-co-PE) and its application in dye sensitized solar cell. <i>Organic Electronics</i> , 2018, 56, 116-124.	2.6	33
65	Effects of TiO <sub>2</sub> Nanoparticles on the Overall Performance and Corrosion Protection Ability of Neat Epoxy and PDMS Modified Epoxy Coating Systems. <i>Frontiers in Materials</i> , 2020, 6, .	2.4	33
66	A comprehensive review: Super hydrophobic graphene nanocomposite coatings for underwater and wet applications to enhance corrosion resistance. <i>FlatChem</i> , 2022, 31, 100326.	5.6	33
67	Comparison of the performance of copper oxide and yttrium oxide nanoparticle based hydroxyethyl cellulose electrolytes for supercapacitors. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	2.6	31
68	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. <i>Ionics</i> , 2019, 25, 763-771.	2.4	31
69	Poly (1-vinylpyrrolidone-co-vinyl acetate) (PVP-co-VAc) based gel polymer electrolytes for electric double layer capacitors (EDLC). <i>Journal of Polymer Research</i> , 2020, 27, 1.	2.4	31
70	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. <i>Organic Electronics</i> , 2015, 22, 132-139.	2.6	29
71	Efficiency enhancement of dye-sensitized solar cell based gel polymer electrolytes using Poly(vinyl Tj ETQq1 1 0.784314 rgBT /Overlock Semiconductor Processing, 2019, 91, 414-421.	4.0	29
72	Preparation and characterization of poly (ethyl methacrylate) based polymer electrolytes doped with 1-butyl-3-methylimidazolium trifluoromethanesulfonate. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014, 48, 263-273.	5.0	27

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73	Presence of NaI in PEO/PVdF-HFP blend based gel polymer electrolytes for fabrication of dye-sensitized solar cells. <i>Materials Science in Semiconductor Processing</i> , 2017, 66, 144-148.	4.0	27
74	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. <i>Electrochimica Acta</i> , 2017, 240, 361-370.	5.2	25
75	Electrical, dielectric and electrochemical characterization of novel poly(acrylic acid)-based polymer electrolytes complexed with lithium tetrafluoroborate. <i>Chemical Physics Letters</i> , 2018, 692, 19-27.	2.6	25
76	Growth of nanostructured cobalt sulfide-based nanocomposite as faradaic binder-free electrode for supercapattery. <i>Journal of Energy Storage</i> , 2021, 39, 102599.	8.1	25
77	Density functional theory simulation of cobalt oxide aggregation and facile synthesis of a cobalt oxide, gold and multiwalled carbon nanotube based ternary composite for a high performance supercapattery. <i>New Journal of Chemistry</i> , 2019, 43, 13183-13195.	2.8	24
78	Effect of Salt Concentration on Poly (Acrylic Acid) Hydrogel Electrolytes and their Applications in Supercapacitor. <i>Journal of the Electrochemical Society</i> , 2020, 167, 100524.	2.9	24
79	SYNTHESIS AND CHARACTERIZATION OF pH-SENSITIVE N-SUCCINYL CHITOSAN HYDROGEL AND ITS PROPERTIES FOR BIOMEDICAL APPLICATIONS. <i>Journal of the Chilean Chemical Society</i> , 2019, 64, 4571-4574.	1.2	23
80	The potential of incorporation of binary salts and ionic liquid in P(VP-co-VAc) gel polymer electrolyte in electrochemical and photovoltaic performances. <i>Scientific Reports</i> , 2016, 6, 27630.	3.3	22
81	Novel development towards preparation of highly efficient ionic liquid based co-polymer electrolytes and its application in dye-sensitized solar cells. <i>Organic Electronics</i> , 2017, 41, 33-41.	2.6	22
82	Cobalt Oxide Nanograins and Silver Nanoparticles Decorated Fibrous Polyaniline Nanocomposite as Battery-Type Electrode for High Performance Supercapattery. <i>Polymers</i> , 2020, 12, 2816.	4.5	22
83	A review on graphene and its derivatives as the forerunner of the two-dimensional material family for the future. <i>Journal of Materials Science</i> , 2022, 57, 12236-12278.	3.7	22
84	Na-doped LiMnPO <sub>4</sub> as an electrode material for enhanced lithium ion batteries. <i>Bulletin of Materials Science</i> , 2017, 40, 171-175.	1.7	21
85	Quasi-solid-state agar-based polymer electrolytes for dye-sensitized solar cell applications using imidazolium-based ionic liquid. <i>Ionics</i> , 2017, 23, 1585-1590.	2.4	21
86	Tailorable solid-state supercapacitors based on poly (N-hydroxymethylacrylamide) hydrogel electrolytes with high ionic conductivity. <i>Journal of Energy Storage</i> , 2021, 35, 102320.	8.1	21
87	Minimum fluidization velocity and gas holdup in gas-liquid-solid fluidized bed reactors. <i>Journal of Chemical Technology and Biotechnology</i> , 2002, 77, 129-136.	3.2	20
88	Ionic conductivity, dielectric behavior, and FTIR analysis onto poly(methyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td (metha Polymer Science, 2013, 127, 2380-2388.	2.6	20
89	Optimization of poly(vinyl alcohol-co-ethylene)-based gel polymer electrolyte containing nickel phosphate nanoparticles for dye-sensitized solar cell application. <i>Solar Energy</i> , 2019, 178, 231-240.	6.1	20
90	Exploration on polypropylene carbonate polymer for gel polymer electrolyte preparation and dye-sensitized solar cell application. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45091.	2.6	19

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91	Polyacrylonitrile-poly(1-vinyl pyrrolidone-co-vinyl acetate) blend based gel polymer electrolytes incorporated with sodium iodide salt for dye-sensitized solar cell applications. Journal of Applied Polymer Science, 2019, 136, 47810.	2.6	19
92	Development of fully organic coating system modified with epoxidized soybean oil with superior corrosion protection performance. Progress in Organic Coatings, 2020, 140, 105523.	3.9	19
93	Development of active barrier effect of hybrid chitosan/silica composite epoxy-based coating on mild steel surface. Surfaces and Interfaces, 2021, 25, 101250.	3.0	18
94	Studies on the Influence of Titania Content on the Properties of Poly(vinyl chloride) - Poly (acrylonitrile)-Based Polymer Electrolytes. Polymer-Plastics Technology and Engineering, 2013, 52, 1474-1481.	1.9	17
95	Quasi solid-state dye-sensitized solar cell with P(MMA-co-MAA)-based polymer electrolytes. Journal of Solid State Electrochemistry, 2019, 23, 1179-1189.	2.5	17
96	Flexible and self-healable poly (N, N-dimethylacrylamide) hydrogels for supercapacitor prototype. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 617, 126377.	4.7	17
97	Anticorrosion Properties of Epoxy/Nanocellulose Nanocomposite Coating. BioResources, 2017, 12, .	1.0	16
98	Performance studies of ZnO and multi walled carbon nanotubes-based counter electrodes with gel polymer electrolyte for dye-sensitized solar cell. Materials Science in Semiconductor Processing, 2018, 83, 144-149.	4.0	16
99	Coral-like structured nickel sulfide-cobalt sulfide binder-free electrode for supercapattery. Ionics, 2020, 26, 3621-3630.	2.4	16
100	Studies on the Adhesion and Corrosion Performance of an Acrylic-Epoxy Hybrid Coating. Journal of Adhesion, 2012, 88, 282-293.	3.0	15
101	Ionic conductivity improvement in poly (propylene) carbonate-based gel polymer electrolytes using 1-butyl-3-methylimidazolium iodide (Bmiml) ionic liquid for dye-sensitized solar cell application. Ionics, 2017, 23, 1601-1605.	2.4	15
102	Investigation on gel polymer electrolyte-based dye-sensitized solar cells using carbon nanotube. Ionics, 2019, 25, 319-325.	2.4	15
103	lota-carrageenan-based polymer electrolyte: impact on ionic conductivity with incorporation of AmNTFSI ionic liquid for supercapacitor. Ionics, 2019, 25, 3321-3329.	2.4	15
104	Preparation and characterisation of phenyl silicone-acrylic polyol coatings. Pigment and Resin Technology, 2010, 39, 283-287.	0.9	14
105	Corrosion protection performance of nanocomposite coatings under static, UV, and dynamic conditions. Journal of Coatings Technology Research, 2018, 15, 1035-1047.	2.5	14
106	Investigation of ion conducting behaviour of composite chitosan based polymer electrolytes. Materials Research Innovations, 2011, 15, s184-s186.	2.3	13
107	Comparison studies on the anticorrosion and overall performance of solvent/water based epoxy-copper reinforced composite coatings. Materials Express, 2016, 6, 403-413.	0.5	13
108	Effect of ionic liquid 1-butyl-3-methylimidazolium bromide on ionic conductivity of poly(ethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 T	0.5	13

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109	Improved ionic conductivity and efficiency of dye-sensitized solar cells with the incorporation of 1-methyl-3-propylimidazolium iodide. <i>Ionics</i> , 2020, 26, 3173-3183.	2.4	13
110	Augmentation of dye-sensitized solar cell photovoltaic conversion efficiency via incorporation of terpolymer Poly(vinyl butyral-co-vinyl alcohol-co-vinyl acetate) based gel polymer electrolytes. <i>Polymer</i> , 2021, 223, 123713.	3.8	13
111	Sonochemically synthesized cobalt oxide nanoparticles as an additive for natural polymer iodide electrolyte based dye-sensitized solar cells. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 49, 101746.	2.7	13
112	Review on the Revolution of Polymer Electrolytes for Dye-Sensitized Solar Cells. <i>Energy &amp; Fuels</i> , 2021, 35, 19320-19350.	5.1	13
113	Structural and corrosion protection analyses of coatings containing silicone-polyester resins. <i>Pigment and Resin Technology</i> , 2008, 37, 37-41.	0.9	12
114	Effect of sintering temperature on structural properties of LiMnPO <sub>4</sub> cathode materials obtained by sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 80, 514-522.	2.4	12
115	Efficiency of supercapacitor using EC/DMC-based liquid electrolytes with methyl methacrylate (MMA) monomer. <i>Ionics</i> , 2016, 22, 107-114.	2.4	12
116	Enhancing efficiency of dye sensitized solar cells based on poly(propylene) carbonate polymer gel electrolytes incorporating double salts. <i>Ionics</i> , 2020, 26, 493-502.	2.4	12
117	Effect of Charge Density on the Mechanical and Electrochemical Properties of Poly (acrylic acid) Hydrogel Electrolytes Based Flexible Supercapacitors. <i>Materials Today Communications</i> , 2020, 25, 101558.	1.9	12
118	Influence of tetraglyme towards magnesium salt dissociation in solid polymer electrolyte for electric double layer capacitor. <i>Journal of Polymer Research</i> , 2020, 27, 1.	2.4	12
119	Preparation of Hybrid Chitosan/Silica Composites Via Ionotropic Gelation and Its Electrochemical Impedance Studies. <i>Progress in Organic Coatings</i> , 2020, 145, 105679.	3.9	12
120	CoCl <sub>2</sub> -doped polyaniline composites as electrode materials with enhanced electrochemical performance for supercapacitor application. <i>Polymer Bulletin</i> , 2018, 75, 1563-1578.	3.3	11
121	Solid terpolymer electrolyte based on poly(vinyl butyral-co-vinyl alcohol-co-vinyl acetate) incorporated with lithium salt and tetraglyme for EDLCs. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45902.	2.6	11
122	Enhanced efficiency in dye-sensitized solar cell based on zinc oxide-modified poly(ethylene oxide) gel electrolyte. <i>Ionics</i> , 2018, 24, 1221-1226.	2.4	11
123	Efficiency enhancement study on addition of 1-hexyl-3-methylimidazolium iodide ionic liquid to the poly(methyl methacrylate-co-methacrylic acid) electrolyte system as applied in dye-sensitized solar cells. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 129, 252-260.	4.0	11
124	Effect of 1-Hexyl-3-Methylimidazolium Iodide Ionic Liquid on Ionic Conductivity and Energy Conversion Efficiency of Solid Polymer Electrolyte-Based Nano-Crystalline Dye-Sensitized Solar Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 2423-2429.	0.9	11
125	Studies on the properties of silicone resin blend materials for corrosion protection. <i>Anti-Corrosion Methods and Materials</i> , 2007, 54, 99-102.	1.5	10
126	Influences of sintering temperatures and crystallite sizes on electrochemical properties of LiNiPO <sub>4</sub> as cathode materials via sol-gel route for lithium ion batteries. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 83, 12-18.	2.4	10



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127	Consolidation of ion promoters into quasi solid-state (QSS) polymer electrolytes for dye-sensitized solar cells (DSSCs). <i>Solid State Ionics</i> , 2021, 363, 115592.	2.7	10
128	Enhanced electrochemical properties of ZnO-coated LiMnPO <sub>4</sub> cathode materials for lithium ion batteries. <i>Ionics</i> , 2016, 22, 1551-1556.	2.4	9
129	Development of anti-corrosion coatings using the disposable waste material. <i>Pigment and Resin Technology</i> , 2018, 47, 478-484.	0.9	9
130	Electrical property enhancement of poly (vinyl alcohol-co-ethylene)â€‘based gel polymer electrolyte incorporated with triglyme for electric double-layer capacitors (EDLCs). <i>Ionics</i> , 2021, 27, 361-373.	2.4	9
131	Self-healable poly (N, N-dimethylacrylamide)/poly (3,4-ethylenedioxythiophene) polystyrene sulfonate composite hydrogel electrolytes for aqueous supercapacitors. <i>Journal of Energy Storage</i> , 2022, 45, 103760.	8.1	9
132	The impact of the incorporation of dual salts into poly(1-vinylpyrrolidone-co-vinyl acetate) based quasi-solid polymer electrolyte on the electrochemical and photovoltaic performances of the dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2016, 216, 239-245.	5.2	8
133	Effect of physical interaction between polyaniline and metal phosphate nanocomposite as positive electrode for supercapattery. <i>Journal of Energy Storage</i> , 2020, 32, 101850.	8.1	8
134	Effect of electrode substrate and poly(acrylamide) hydrogel electrolytes on the electrochemical performance of supercapacitors. <i>Ionics</i> , 2021, 27, 4507-4519.	2.4	8
135	Evaluation of heat resistant properties of siliconeâ€‘acrylic polyol coating by electrochemical methods. <i>Pigment and Resin Technology</i> , 2013, 42, 117-122.	0.9	7
136	Fabrication and characterization of natural rubber/ <i>Imperata cylindrica</i> cellulose fiber biocomposites. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2015, 10, 716-723.	1.5	7
137	Studies on anticorrosion properties of polyaniline-TiO <sub>2</sub> blended with acrylic-silicone coating using electrochemical impedance spectroscopy. <i>Pigment and Resin Technology</i> , 2016, 45, 18-23.	0.9	7
138	Fabrication of aqueous solid-state symmetric supercapacitors based on self-healable poly (acrylamide)/PEDOT:PSS composite hydrogel electrolytes. <i>Materials Chemistry and Physics</i> , 2021, 273, 125125.	4.0	7
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