

Ramesh T. Subramaniam

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5031643/ramesh-t-subramaniam-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

281
papers

9,221
citations

51
h-index

80
g-index

288
ext. papers

11,373
ext. citations

4
avg, IF

6.91
L-index

#	Paper	IF	Citations
281	Electrolyte selection for supercapacitive devices: a critical review. <i>Nanoscale Advances</i> , 2019 , 1, 3807-3835	3.5	337
280	A review of polymer electrolytes: fundamental, approaches and applications. <i>Ionics</i> , 2016 , 22, 1259-1279	2.7	307
279	FTIR studies of PVC/PMMA blend based polymer electrolytes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007 , 66, 1237-42	4.4	268
278	Ionic conductivity studies of plasticized poly(vinyl chloride) polymer electrolytes. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001 , 85, 11-15	3.1	198
277	Dielectric behaviour of PVC-based polymer electrolytes. <i>Solid State Ionics</i> , 2002 , 152-153, 291-294	3.3	183
276	Ionic conductivity studies of poly(vinyl alcohol) alkaline solid polymer electrolyte and its use in nickel-zinc cells. <i>Solid State Ionics</i> , 2003 , 156, 171-177	3.3	161
275	Conductivity and FTIR studies on PEO-LiX [X: CF ₃ SO ₃ (-), SO ₄ (²⁻)] polymer electrolytes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008 , 69, 670-5	4.4	140
274	Good prospect of ionic liquid based-poly(vinyl alcohol) polymer electrolytes for supercapacitors with excellent electrical, electrochemical and thermal properties. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 2953-2963	6.7	138
273	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	8.5	126
272	Ion conducting corn starch biopolymer electrolytes doped with ionic liquid 1-butyl-3-methylimidazolium hexafluorophosphate. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 3654-3660	3.9	124
271	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	4.8	118
270	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	9.3	115
269	Conductivity, dielectric behavior and FTIR studies of high molecular weight poly(vinylchloride)lithium triflate polymer electrolytes. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007 , 139, 240-245	3.1	110
268	Effect of ethylene carbonate on the ionic conduction in poly(vinylidene fluoride-hexafluoropropylene) based solid polymer electrolytes. <i>Polymer Chemistry</i> , 2010 , 1, 702	4.9	109
267	Ultrahigh capacitance of amorphous nickel phosphate for asymmetric supercapacitor applications. <i>RSC Advances</i> , 2016 , 6, 76298-76306	3.7	109
266	Application of modified NSGA-II algorithm to multi-objective reactive power planning. <i>Applied Soft Computing Journal</i> , 2012 , 12, 741-753	7.5	107
265	Structural, thermal and electrochemical cell characteristics of poly(vinyl chloride)-based polymer electrolytes. <i>Journal of Power Sources</i> , 2001 , 99, 41-47	8.9	106

264	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	3.9	101
263	Investigation of mechanical properties of polyvinyl chloride-polyethylene oxide (PVC/PEO) based polymer electrolytes for lithium polymer cells. <i>European Polymer Journal</i> , 2007 , 43, 1963-1968	5.2	98
262	Binary composite of polyaniline/copper cobaltite for high performance asymmetric supercapacitor application. <i>Electrochimica Acta</i> , 2017 , 227, 41-48	6.7	97
261	Capacitive behavior studies on electrical double layer capacitor using poly (vinyl alcohol)-lithium perchlorate based polymer electrolyte incorporated with TiO ₂ . <i>Materials Chemistry and Physics</i> , 2014 , 143, 661-667	4.4	97
260	Characterization of ionic liquid added poly(vinyl alcohol)-based proton conducting polymer electrolytes and electrochemical studies on the supercapacitors. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 852-862	6.7	92
259	Electrical, structural, thermal and electrochemical properties of corn starch-based biopolymer electrolytes. <i>Carbohydrate Polymers</i> , 2015 , 124, 222-8	10.3	87
258	Densification behaviour of nanocrystalline hydroxyapatite bioceramics. <i>Journal of Materials Processing Technology</i> , 2008 , 206, 221-230	5.3	86
257	Effect of PVC on ionic conductivity, crystallographic structural, morphological and thermal characterizations in PMMA/PVC blend-based polymer electrolytes. <i>Thermochimica Acta</i> , 2010 , 511, 140-146	2.9	81
256	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	5.7	80
255	Enhanced electrochemical performance of cobalt oxide nanocube intercalated reduced graphene oxide for supercapacitor application. <i>RSC Advances</i> , 2016 , 6, 34894-34902	3.7	78
254	Enhanced capacitance of EDLCs (electrical double layer capacitors) based on ionic liquid-added polymer electrolytes. <i>Energy</i> , 2016 , 109, 546-556	7.9	77
253	A novel approach on ionic liquid-based poly(vinyl alcohol) proton conductive polymer electrolytes for fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 2917-2928	6.7	77
252	Consolidation of nanocrystalline hydroxyapatite powder. <i>Science and Technology of Advanced Materials</i> , 2007 , 8, 124-130	7.1	76
251	Conducting polymer and its composite materials based electrochemical sensor for Nicotinamide Adenine Dinucleotide (NADH). <i>Biosensors and Bioelectronics</i> , 2016 , 79, 763-75	11.8	72
250	A novel coating material that uses nano-sized SiO ₂ particles to intensify hydrophobicity and corrosion protection properties. <i>Electrochimica Acta</i> , 2016 , 220, 417-426	6.7	71
249	Rapid densification of nanocrystalline hydroxyapatite for biomedical applications. <i>Ceramics International</i> , 2007 , 33, 1363-1367	5.1	71
248	Fundamental Concepts of Hydrogels: Synthesis, Properties, and Their Applications. <i>Polymers</i> , 2020 , 12,	4.5	70
247	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	8.1	69

- 246 Enhancing rate capability of amorphous nickel phosphate supercapattery electrode via composition with crystalline silver phosphate. *Electrochimica Acta*, **2018**, 273, 216-228 6.7 68
- 245 Sintering behaviour of natural porous hydroxyapatite derived from bovine bone. *Ceramics International*, **2015**, 41, 3024-3029 5.1 67
- 244 Investigation on the effects of addition of SiO₂ nanoparticles on ionic conductivity, FTIR, and thermal properties of nanocomposite PMMA/CF₃SO₃BiO₂. *Ionics*, **2010**, 16, 255-262 2.7 67
- 243 Studies on SiO₂-hybrid polymeric nanocomposite coatings with superior corrosion protection and hydrophobicity. *Surface and Coatings Technology*, **2017**, 324, 536-545 4.4 66
- 242 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 6.7 65
- 241 Preparation and characterization of lithium ion conducting ionic liquid-based biodegradable corn starch polymer electrolytes. *Journal of Solid State Electrochemistry*, **2012**, 16, 1869-1875 2.6 63
- 240 Rheological characterisation and printing performance of Sn/Ag/Cu solder pastes. *Materials & Design*, **2009**, 30, 3812-3818 62
- 239 Synthesis, characterization, properties of N-succinyl chitosan-g-poly (methacrylic acid) hydrogels and in vitro release of theophylline. *Polymer*, **2016**, 92, 36-49 3.9 61
- 238 Green synthesized carbon nanodots as a fluorescent probe for selective and sensitive detection of iron(III) ions. *Materials Letters*, **2014**, 136, 179-182 3.3 60
- 237 Characterization of conducting cellulose acetate based polymer electrolytes doped with "green" ionic mixture. *Carbohydrate Polymers*, **2013**, 91, 14-21 10.3 60
- 236 An Approach to Solid-State Electrical Double Layer Capacitors Fabricated with Graphene Oxide-Doped, Ionic Liquid-Based Solid Copolymer Electrolytes. *Materials*, **2016**, 9, 3.5 60
- 235 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 4.9 59
- 234 Direct conversion of eggshell to hydroxyapatite ceramic by a sintering method. *Ceramics International*, **2016**, 42, 7824-7829 5.1 55
- 233 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 10.3 54
- 232 Electrical, structural, and thermal studies of antimony trioxide-doped poly(acrylic acid)-based composite polymer electrolytes. *Ionics*, **2014**, 20, 665-674 2.7 52
- 231 Effect of lithium salt concentration on crystallinity of poly(vinylidene fluoride-co-hexafluoropropylene)-based solid polymer electrolytes. *Journal of Molecular Structure*, **2011**, 994, 403-409 3.4 52
- 230 An investigation on PAN/VC/IL/TFPI based polymer electrolytes system. *Solid State Ionics*, **2011**, 192, 2-5 3.3 51
- 229 Conductivity, dielectric behaviour and thermal stability studies of lithium ion dissociation in poly(methyl methacrylate)-based gel polymer electrolytes. *Ionics*, **2009**, 15, 249-254 2.7 50

228	Recognition and classification of paddy leaf diseases using Optimized Deep Neural network with Jaya algorithm. <i>Information Processing in Agriculture</i> , 2020 , 7, 249-260	4.2	50
227	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	8.1	49
226	Investigation of ionic liquid-doped ion conducting polymer electrolytes for carbon-based electric double layer capacitors (EDLCs). <i>Materials and Design</i> , 2016 , 92, 829-835	8.1	49
225	Electric double layer capacitor based on activated carbon electrode and biodegradable composite polymer electrolyte. <i>Ionics</i> , 2014 , 20, 251-258	2.7	48
224	Lithium ion conduction in corn starch based solid polymer electrolytes. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014 , 48, 87-95	4.6	48
223	Electric double-layer capacitors with corn starch-based biopolymer electrolytes incorporating silica as filler. <i>Ionics</i> , 2015 , 21, 2061-2068	2.7	47
222	Comparing Triflate and Hexafluorophosphate Anions of Ionic Liquids in Polymer Electrolytes for Supercapacitor Applications. <i>Materials</i> , 2014 , 7, 4019-4033	3.5	47
221	Effects of silicate and carbonate substitution on the properties of hydroxyapatite prepared by aqueous co-precipitation method. <i>Materials and Design</i> , 2015 , 87, 788-796	8.1	44
220	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	3.7	44
219	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	3.9	44
218	Impact of low viscosity ionic liquid on PMMA-PVC-LiTFSI polymer electrolytes based on AC -impedance, dielectric behavior, and HATR-FTIR characteristics. <i>Journal of Materials Research</i> , 2012 , 27, 2996-3004	2.5	44
217	An enhanced performance of hybrid supercapacitor based on polyaniline-manganese phosphate binary composite. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 3205-3213	2.6	43
216	Miscibility studies of PVC blends (PVC/PMMA and PVC/PEO) based polymer electrolytes. <i>Solid State Ionics</i> , 2002 , 148, 483-486	3.3	43
215	Novel poly(vinylidene fluoride-co-hexafluoro propylene)/polyethylene oxide based gel polymer electrolyte containing fumed silica (SiO ₂) nanofiller for high performance dye-sensitized solar cell. <i>Electrochimica Acta</i> , 2016 , 220, 573-580	6.7	42
214	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	3.9	42
213	Plasticizing effect of 1-allyl-3-methylimidazolium chloride in cellulose acetate based polymer electrolytes. <i>Carbohydrate Polymers</i> , 2012 , 87, 2624-2629	10.3	42
212	Effects of manganese doping on properties of sol-gel derived biphasic calcium phosphate ceramics. <i>Ceramics International</i> , 2011 , 37, 3703-3715	5.1	41
211	Studies on the structure and transport properties of hexanoyl chitosan-based polymer electrolytes. <i>Physica B: Condensed Matter</i> , 2009 , 404, 4308-4311	2.8	41

210	Effect of nanosized silica in poly(methyl methacrylate)lithium bis(trifluoromethanesulfonyl)imide based polymer electrolytes. <i>Journal of Power Sources</i> , 2008 , 185, 1439-1443	8.9	41
209	Efficiency improvement by incorporating 1-methyl-3-propylimidazolium iodide ionic liquid in gel polymer electrolytes for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2015 , 175, 169-175	6.7	40
208	Dielectric and FTIR studies on blending of [xPMMA(1-x)PVC] with LiTFSI. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013 , 46, 1650-1656	4.6	40
207	Characterization of polymer electrolytes based on high molecular weight PVC and Li ₂ SO ₄ . <i>Current Applied Physics</i> , 2009 , 9, 329-332	2.6	40
206	Investigation on structural and electrochemical properties of binder free nanostructured nickel oxide thin film. <i>Materials Letters</i> , 2015 , 161, 694-697	3.3	39
205	Characteristics and properties of hydroxyapatite derived by sol-gel and wet chemical precipitation methods. <i>Ceramics International</i> , 2015 , 41, 10434-10441	5.1	38
204	Studies on ionic liquid-based corn starch biopolymer electrolytes coupling with high ionic transport number. <i>Cellulose</i> , 2013 , 20, 3227-3237	5.5	38
203	Impedance and FTIR studies on plasticized PMMA/n(CF ₃ SO ₂) ₂ nanocomposite polymer electrolytes. <i>Ionics</i> , 2010 , 16, 465-473	2.7	38
202	Anticorrosion properties of epoxy-nanochitosan nanocomposite coating. <i>Progress in Organic Coatings</i> , 2017 , 113, 74-81	4.8	37
201	Poly(Acrylic acid)-Based Hybrid Inorganic/Organic Electrolytes Membrane for Electrical Double Layer Capacitors Application. <i>Polymers</i> , 2016 , 8,	4.5	37
200	N-succinyl chitosan preparation, characterization, properties and biomedical applications: a state of the art review. <i>Reviews in Chemical Engineering</i> , 2015 , 31,	5	36
199	Influence of acrylic acid on ethylene carbonate/dimethyl carbonate based liquid electrolyte and its supercapacitor application. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 30683-30690	6.7	36
198	Investigation on the effect of nanosilica towards corn starchlithium perchlorate-based polymer electrolytes. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 3165-3170	2.6	35
197	The conductivity and dielectric studies of solid polymer electrolytes based on poly (acrylamide-co-acrylic acid) doped with sodium iodide. <i>Ionics</i> , 2018 , 24, 1947-1953	2.7	34
196	Electrical conductivity studies of polyvinyl chloride-based electrolytes with double salt system. <i>Solid State Ionics</i> , 2000 , 136-137, 1197-1200	3.3	34
195	Effect of multi-ions doping on the properties of carbonated hydroxyapatite bioceramic. <i>Ceramics International</i> , 2019 , 45, 3473-3477	5.1	34
194	Effect of CeO ₂ nano powder as additive in WME-TPO blend to control toxic emissions from a light-duty diesel engine –An experimental study. <i>Fuel</i> , 2020 , 278, 118177	7.1	33
193	Nanocomposite polymer electrolyte based on rice starch/ionic liquid/TiO ₂ nanoparticles for solar cell application. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014 , 58, 68-72	4.6	33

192	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	3.6	33
191	Exploration on nano-composite fumed silica-based composite polymer electrolytes with doping of ionic liquid. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 931-940	3.9	33
190	Ternary nanocomposite of cobalt oxide nanograins and silver nanoparticles grown on reduced graphene oxide conducting platform for high-performance supercapattery electrode material. <i>Journal of Alloys and Compounds</i> , 2020 , 821, 153452	5.7	33
189	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	3.1	33
188	Studies on the thermal behavior of CS:LiTFSI:[Amim] Cl polymer electrolytes exerted by different [Amim] Cl content. <i>Solid State Sciences</i> , 2012 , 14, 182-186	3.4	32
187	TRANSPORT MECHANISM STUDIES OF CHITOSAN ELECTROLYTE SYSTEMS. <i>Electrochimica Acta</i> , 2015 , 175, 68-73	6.7	32
186	Comparison between microwave and conventional sintering on the properties and microstructural evolution of tetragonal zirconia. <i>Ceramics International</i> , 2018 , 44, 8922-8927	5.1	31
185	Binary nanocomposite based on Co ₃ O ₄ nanocubes and multiwalled carbon nanotubes as an ultrasensitive platform for amperometric determination of dopamine. <i>Mikrochimica Acta</i> , 2017 , 184, 2739-2748	5.8	30
184	Physico-chemical characterization of pH-sensitive N -Succinyl chitosan- g -poly (acrylamide- co -acrylic acid) hydrogels and invitro drug release studies. <i>Polymer Degradation and Stability</i> , 2017 , 139, 38-54	4.7	30
183	Formulation and characterization of hybrid polymeric/ZnO nanocomposite coatings with remarkable anti-corrosion and hydrophobic characteristics 2016 , 13, 921-930		30
182	Effect of different imidazolium-based ionic liquids on gel polymer electrolytes for dye-sensitized solar cells. <i>Ionics</i> , 2019 , 25, 2427-2435	2.7	29
181	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	2.7	29
180	Towards magnesium ion conducting poly(vinylidene fluoride-hexafluoropropylene)-based solid polymer electrolytes with great prospects: Ionic conductivity and dielectric behaviours. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2012 , 43, 806-812	5.3	29
179	Rheological studies of PMMA-PVC based polymer blend electrolytes with LiTFSI as doping salt. <i>PLoS ONE</i> , 2014 , 9, e102815	3.7	29
178	Optimal reactive power dispatch for real power loss minimization and voltage stability enhancement using Artificial Bee Colony Algorithm. <i>Microprocessors and Microsystems</i> , 2020 , 76, 103085	2.4	28
177	Development and characterization of poly(1-vinylpyrrolidone-co-vinyl acetate) copolymer based polymer electrolytes. <i>Scientific World Journal, The</i> , 2014 , 2014, 254215	2.2	28
176	An improved generalized differential evolution algorithm for multi-objective reactive power dispatch. <i>Engineering Optimization</i> , 2012 , 44, 391-405	2	28
175	Ionic liquid enhanced magnesium-based polymer electrolytes for electrical double-layer capacitors. <i>Ionics</i> , 2016 , 22, 919-925	2.7	27

174	Rheological behavior of biodegradable N-succinyl chitosan-g-poly (acrylic acid) hydrogels and their applications as drug carrier and in vitro theophylline release. <i>International Journal of Biological Macromolecules</i> , 2018 , 117, 454-466	7.9	27
173	FTIR spectra of plasticized high molecular weight PVC/CF ₃ SO ₃ electrolytes. <i>Ionics</i> , 2009 , 15, 413-420	2.7	26
172	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	3.5	25
171	Exerted influence of deep eutectic solvent concentration in the room temperature ionic conductivity and thermal behavior of corn starch based polymer electrolytes. <i>Journal of Molecular Liquids</i> , 2012 , 166, 40-43	6	24
170	Effect of ethylene carbonate in poly (methyl methacrylate)-lithium tetraborate based polymer electrolytes. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 1357-1363	3.9	24
169	Synthesis and characterization of hybrid poly (N, N-dimethylacrylamide) composite hydrogel electrolytes and their performance in supercapacitor. <i>Electrochimica Acta</i> , 2020 , 332, 135438	6.7	24
168	Transparent self-cleaning coating of modified polydimethylsiloxane (PDMS) for real outdoor application. <i>Progress in Organic Coatings</i> , 2019 , 131, 232-239	4.8	24
167	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	6.7	23
166	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	6.7	23
165	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	3.5	23
164	Enhancing the Efficiency of a Dye-Sensitized Solar Cell Based on a Metal Oxide Nanocomposite Gel Polymer Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 30185-30196	9.5	23
163	Micro-arc oxidation of bioceramic coatings containing eggshell-derived hydroxyapatite on titanium substrate. <i>Ceramics International</i> , 2019 , 45, 18371-18381	5.1	22
162	Development of asymmetric device using Co ₃ (PO ₄) ₂ as a positive electrode for energy storage application. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 7435-7446	2.1	22
161	Polyaniline-SrTiO ₃ nanocube based binary nanocomposite as highly stable electrode material for high performance supercapattery. <i>Ceramics International</i> , 2019 , 45, 11428-11437	5.1	22
160	A simple P(VdF-HFP)/LiTF system yielding highly ionic conducting and thermally stable solid polymer electrolytes. <i>Journal of Molecular Liquids</i> , 2013 , 177, 73-77	6	22
159	Facile sonochemical synthesis of 2D porous Co ₃ O ₄ nanoflake for supercapattery. <i>Journal of Alloys and Compounds</i> , 2020 , 819, 153019	5.7	22
158	Facile synthesise of transparent hydrophobic nano- CaCO ₃ based coatings for self-cleaning and anti-fogging. <i>Materials Chemistry and Physics</i> , 2020 , 239, 121913	4.4	22
157	A review on plant extracts as natural additives in coating applications. <i>Progress in Organic Coatings</i> , 2021 , 151, 106091	4.8	22

156	Degradation of ultra-high molecular weight poly(methyl methacrylate-co-butyl acrylate-co-acrylic acid) under ultra violet irradiation. <i>RSC Advances</i> , 2017 , 7, 112-120	3.7	21
155	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,	2.9	21
154	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	3.5	21
153	Conductivity, Mechanical and Thermal Studies on Poly(methyl methacrylate)-Based Polymer Electrolytes Complexed with Lithium Tetraborate and Propylene Carbonate. <i>Journal of Materials Engineering and Performance</i> , 2012 , 21, 89-94	1.6	21
152	Studies on biodegradable polymer electrolyte rice starch (RS) complexed with lithium iodide. <i>Ionics</i> , 2014 , 20, 691-695	2.7	20
151	Investigation of ionic liquid-based poly(vinyl alcohol) proton conductor for electrochemical double-layer capacitor. <i>High Performance Polymers</i> , 2014 , 26, 632-636	1.6	20
150	Effect of dibutyl phthalate as plasticizer on high-molecular weight poly(vinyl chloride) lithium tetraborate-based solid polymer electrolytes. <i>Ionics</i> , 2011 , 17, 705-713	2.7	20
149	Effects of ionic liquid on the hydroxypropylmethyl cellulose (HPMC) solid polymer electrolyte. <i>Ionics</i> , 2016 , 22, 2421-2430	2.7	20
148	Modeling and control of diesel engines: A systematic review. <i>AEJ - Alexandria Engineering Journal</i> , 2018 , 57, 4033-4048	6.1	20
147	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	4.3	19
146	Effect of halide anions in ionic liquid added poly(vinyl alcohol)-based ion conductors for electrical double layer capacitors. <i>Journal of Non-Crystalline Solids</i> , 2017 , 458, 97-106	3.9	19
145	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	2.7	19
144	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	4.6	19
143	Discussion on the influence of DES content in CA-based polymer electrolytes. <i>Journal of Materials Science</i> , 2012 , 47, 1787-1793	4.3	19
142	Preparation and characterization of plasticized high molecular weight PVC-based polymer electrolytes. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2010 , 35, 87-95	1	19
141	Efficiency enhancement of dye-sensitized solar cell based gel polymer electrolytes using Poly(vinyl butyral-co-vinyl alcohol-co-vinyl acetate)/tetrapropylammonium iodide. <i>Materials Science in Semiconductor Processing</i> , 2019 , 91, 414-421	4.3	19
140	Electrical and structural studies of ionic liquid-based poly(vinyl alcohol) proton conductors. <i>Journal of Non-Crystalline Solids</i> , 2015 , 425, 163-172	3.9	18
139	Ionic conductivity, dielectric behavior, and HATRFTIR analysis onto poly(methyl methacrylate) poly(vinyl chloride) binary solid polymer blend electrolytes. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 2380-2388	2.9	18

138	A study incorporating nano-sized silica into PVC-blend-based polymer electrolytes for lithium batteries. <i>Journal of Materials Science</i> , 2009 , 44, 6404-6407	4.3	18
137	Structural, thermal, and conductivity studies of high molecular weight poly(vinylchloride)-lithium triflate polymer electrolyte plasticized by dibutyl phthalate. <i>Ionics</i> , 2009 , 15, 725-730	2.7	18
136	Mechanical studies on poly(vinyl chloride)poly(methyl methacrylate)-based polymer electrolytes. <i>Journal of Materials Science</i> , 2010 , 45, 1280-1283	4.3	18
135	Synthesis and characterization of self-healable poly (acrylamide) hydrogel electrolytes and their application in fabrication of aqueous supercapacitors. <i>Polymer</i> , 2020 , 210, 123020	3.9	18
134	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	4.9	18
133	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	2.9	17
132	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	3.5	17
131	Effects of TiO ₂ 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,	4	17
130	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	2.7	17
129	New alicyclic thiosemicarbazone chelated zinc(II) antitumor complexes: Interactions with DNA/protein, nuclease activity and inhibition of topoisomerase-I. <i>Polyhedron</i> , 2016 , 105, 89-95	2.7	17
128	Enhancement of ionic conductivity and structural properties by 1-butyl-3-methylimidazolium trifluoromethanesulfonate ionic liquid in poly(vinylidene fluoridehexafluoropropylene)-based polymer electrolytes. <i>Journal of Applied Polymer Science</i> , 2012 , 126, E484-E492	2.9	17
127	Sintering behaviour and properties of manganese-doped alumina. <i>Ceramics International</i> , 2019 , 45, 7049-7054	5.7	17
126	Passively Q-switched erbium-doped fibre laser using cobalt oxide nanocubes as a saturable absorber. <i>Journal of Modern Optics</i> , 2017 , 64, 1315-1320	1.1	16
125	BMIMTf ionic liquid-assisted ionic dissociation of MgTf in P(VdF-HFP)-based solid polymer electrolytes. <i>Journal of Physics and Chemistry of Solids</i> , 2013 , 74, 1380-1386	3.9	16
124	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	2.7	16
123	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	2.5	16
122	Na-doped LiMnPO ₄ as an electrode material for enhanced lithium ion batteries. <i>Bulletin of Materials Science</i> , 2017 , 40, 171-175	1.7	15
121	Studies on the Influence of Titania Content on the Properties of Poly(vinyl chloride) - Poly (acrylonitrile)-Based Polymer Electrolytes. <i>Polymer-Plastics Technology and Engineering</i> , 2013 , 52, 1474-1481		15

120	The effect of antimony trioxide on poly (vinyl alcohol)-lithium perchlorate based polymer electrolytes. <i>Ceramics International</i> , 2013 , 39, 745-752	5.1	15
119	Rheological characterizations of ionic liquid-based gel polymer electrolytes and fumed silica-based composite polymer electrolytes. <i>Ceramics International</i> , 2012 , 38, 3411-3417	5.1	15
118	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	6.8	15
117	Effect of two-step sintering on the hydrothermal ageing resistance of tetragonal zirconia polycrystals. <i>Ceramics International</i> , 2017 , 43, 7594-7599	5.1	14
116	Preparation and performance analysis of barium titanate incorporated in corn starch-based polymer electrolytes for electric double layer capacitor application. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	14
115	Development and investigation on PMMA/PVC blend-based solid polymer electrolytes with LiTFSI as dopant salt. <i>Polymer Bulletin</i> , 2013 , 70, 1277-1288	2.4	14
114	Three-dimensional hierarchical nanostructured porous TiO ₂ aerogel/Cobalt based metal-organic framework (MOF) composite as an electrode material for supercapattery. <i>Journal of Energy Storage</i> , 2020 , 32, 101750	7.8	14
113	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	4.8	14
112	Ionic conductivity improvement in poly (propylene) carbonate-based gel polymer electrolytes using 1-butyl-3-methylimidazolium iodide (BmimI) ionic liquid for dye-sensitized solar cell application. <i>Ionics</i> , 2017 , 23, 1601-1605	2.7	13
111	Polyacrylonitrile/poly(1-vinyl pyrrolidone-co-vinyl acetate) blend based gel polymer electrolytes incorporated with sodium iodide salt for dye-sensitized solar cell applications. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47810	2.9	13
110	Electrical, thermal, and structural studies on highly conducting additive-free biopolymer electrolytes for electric double-layer capacitor application. <i>Ionics</i> , 2019 , 25, 4861-4874	2.7	13
109	Investigation on gel polymer electrolyte-based dye-sensitized solar cells using carbon nanotube. <i>Ionics</i> , 2019 , 25, 319-325	2.7	13
108	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	3.6	13
107	Preparation and characterisation of phenyl silicone-acrylic polyol coatings. <i>Pigment and Resin Technology</i> , 2010 , 39, 283-287	1	13
106	Development of a bone substitute material based on alpha-tricalcium phosphate scaffold coated with carbonate apatite/poly-epsilon-caprolactone. <i>Biomedical Materials (Bristol)</i> , 2015 , 10, 045011	3.5	12
105	Quasi solid-state dye-sensitized solar cell with P(MMA-co-MAA)-based polymer electrolytes. <i>Journal of Solid State Electrochemistry</i> , 2019 , 23, 1179-1189	2.6	12
104	Sintering behaviour of carbonated hydroxyapatite prepared at different carbonate and phosphate ratios. <i>Boletin De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2020 , 59, 73-80	1.9	12
103	Performance studies of ZnO and multi walled carbon nanotubes-based counter electrodes with gel polymer electrolyte for dye-sensitized solar cell. <i>Materials Science in Semiconductor Processing</i> , 2018 , 83, 144-149	4.3	12

102	Influence of sodium on the properties of sol-gel derived hydroxyapatite powder and porous scaffolds. <i>Ceramics International</i> , 2017 , 43, 12263-12269	5.1	11
101	Nonenzymatic electrochemical sensor based on metal oxide, MO (M= Cu, Ni, Zn, and Fe) nanomaterials for neurotransmitters: An abridged review. <i>Sensors International</i> , 2020 , 1, 100047	6.1	11
100	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	3.9	11
99	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	2.7	11
98	Anticorrosion Properties of Epoxy/Nanocellulose Nanocomposite Coating. <i>BioResources</i> , 2017 , 12,	1.3	11
97	Employment of [Amim] Cl in the effort to upgrade the properties of cellulose acetate based polymer electrolytes. <i>Cellulose</i> , 2013 , 20, 1377-1389	5.5	11
96	A new thio-Schiff base fluorophore with copper ion sensing, DNA binding and nuclease activity. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 150, 175-80	4.4	11
95	Pharmacokinetics of pefloxacin in goats after intravenous or oral administration. <i>Veterinary Research Communications</i> , 2002 , 26, 141-9	2.9	11
94	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	6.8	11
93	Innovative application of biopolymer composite as proton exchange membrane in microbial fuel cell utilizing real wastewater for electricity generation. <i>Journal of Cleaner Production</i> , 2021 , 278, 123449 ^{10.3}	10.3	11
92	Efficiency of supercapacitor using EC/DMC-based liquid electrolytes with methyl methacrylate (MMA) monomer. <i>Ionics</i> , 2016 , 22, 107-114	2.7	10
91	Effects of sintering on the mechanical and ionic properties of ceria-doped scandia stabilized zirconia ceramic. <i>Ceramics International</i> , 2016 , 42, 14469-14474	5.1	10
90	Studies on the Adhesion and Corrosion Performance of an Acrylic-Epoxy Hybrid Coating 2012 , 88, 282-293		10
89	Tailor-made fumed silica-based nano-composite polymer electrolytes consisting of BmImTFSI ionic liquid. <i>Iranian Polymer Journal (English Edition)</i> , 2012 , 21, 273-281	2.3	10
88	Utilisation of corn starch in production of green polymer electrolytes. <i>Materials Research Innovations</i> , 2011 , 15, s13-s8	1.9	10
87	Implementation of hybrid pattern search genetic algorithm into optimizing axial-flux permanent magnet coreless generator (AFPMG). <i>Electrical Engineering</i> , 2017 , 99, 751-761	1.5	9
86	Influences of sintering temperatures and crystallite sizes on electrochemical properties of LiNiPO ₄ as cathode materials via sol-gel route for lithium ion batteries. <i>Journal of Sol-Gel Science and Technology</i> , 2017 , 83, 12-18	2.3	9
85	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	3.9	9

84	A Software-Based Heuristic Clustered (SBHC) Architecture for the Performance Improvement in MANET. <i>Wireless Personal Communications</i> , 2017 , 97, 6343-6355	1.9	9
83	Comparison studies on the anticorrosion and overall performance of solvent/water based epoxy-copper reinforced composite coatings. <i>Materials Express</i> , 2016 , 6, 403-413	1.3	9
82	Amphiphilic Biopolyester-Carbon Nanotube Anode Enhances Electrochemical Activities of Microbial Fuel Cell. <i>Chemical Engineering and Technology</i> , 2019 , 42, 566-574	2	9
81	Effect of pH on the properties of eggshell-derived hydroxyapatite bioceramic synthesized by wet chemical method assisted by microwave irradiation. <i>Ceramics International</i> , 2021 , 47, 8879-8887	5.1	9
80	Intramuscular injection of botulinum toxin for the treatment of wrist and finger spasticity after stroke. <i>Medical Journal of Malaysia</i> , 2007 , 62, 319-22	0.4	9
79	Iota-carrageenan-based polymer electrolyte: impact on ionic conductivity with incorporation of AmNTFSI ionic liquid for supercapacitor. <i>Ionics</i> , 2019 , 25, 3321-3329	2.7	8
78	Medium-chain-length poly-3-hydroxyalkanoates-carbon nanotubes composite as proton exchange membrane in microbial fuel cell. <i>Chemical Engineering Communications</i> , 2019 , 206, 731-745	2.2	8
77	Sintering behaviour and properties of magnesium orthosilicate-hydroxyapatite ceramic. <i>Ceramics International</i> , 2016 , 42, 15756-15761	5.1	8
76	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	6.7	8
75	Effect of ionic liquid 1-butyl-3-methylimidazolium bromide on ionic conductivity of poly(ethyl methacrylate) based polymer electrolytes. <i>Materials Express</i> , 2016 , 6, 252-258	1.3	8
74	Effect of sintering temperature on structural properties of LiMnPO ₄ cathode materials obtained by sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2016 , 80, 514-522	2.3	8
73	Investigation of ion conducting behaviour of composite chitosan based polymer electrolytes. <i>Materials Research Innovations</i> , 2011 , 15, s184-s186	1.9	8
72	A concise review on corrosion inhibitors: types, mechanisms and electrochemical evaluation studies ¹		8
71	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	2.5	8
70	Development of fully organic coating system modified with epoxidized soybean oil with superior corrosion protection performance. <i>Progress in Organic Coatings</i> , 2020 , 140, 105523	4.8	8
69	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	1.3	8
68	Effects of sintering additives on the densification and properties of alumina-toughened zirconia ceramic composites. <i>Ceramics International</i> , 2020 , 46, 27539-27549	5.1	8
67	CoCl ₂ -doped polyaniline composites as electrode materials with enhanced electrochemical performance for supercapacitor application. <i>Polymer Bulletin</i> , 2018 , 75, 1563-1578	2.4	7

66	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	2.9	7
65	Enhanced efficiency in dye-sensitized solar cell based on zinc oxide-modified poly(ethylene oxide) gel electrolyte. <i>Ionics</i> , 2018 , 24, 1221-1226	2.7	7
64	Sol-gel synthesis, structural, optical and magnetic characterization of Ag ₃ (2+x)Pr _x Nb ₄ O ₁₁ +□ (0.0 ≤ x ≤ 1.0) nanoparticles. <i>RSC Advances</i> , 2016 , 6, 6336-6341	3.7	7
63	Synthesis and mesomorphic evaluation of new calamitic liquid crystals containing benzothiazole core. <i>Chinese Chemical Letters</i> , 2011 , 22, 619-622	8.1	7
62	Structural, morphological, thermal, and conductivity studies of magnesium ion conducting P(VdF-HFP)-based solid polymer electrolytes with good prospects. <i>Journal of Applied Polymer Science</i> , 2010 , 117, 2050-2058	2.9	7
61	Flexible and self-healable poly (N, N-dimethylacrylamide) hydrogels for supercapacitor prototype. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 617, 126377	5.1	7
60	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	2.7	7
59	Development of poly(vinyl alcohol) (PVA)-based sodium ion conductors for electric double-layer capacitors application. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021 , 263, 114804	3.1	7
58	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	2.7	6
57	Preparation of Hybrid Chitosan/Silica Composites Via Ionotropic Gelation and Its Electrochemical Impedance Studies. <i>Progress in Organic Coatings</i> , 2020 , 145, 105679	4.8	6
56	Corrosion protection performance of nanocomposite coatings under static, UV, and dynamic conditions 2018 , 15, 1035-1047		6
55	Effect of microwave sintering on the properties of copper oxide doped Y-TZP ceramics. <i>Ceramics International</i> , 2018 , 44, 19639-19645	5.1	6
54	Prediction of conductivity by adaptive neuro-fuzzy model. <i>PLoS ONE</i> , 2014 , 9, e92241	3.7	6
53	Investigation of dibutyl phthalate as plasticizer on poly(methyl methacrylate)lithium tetraborate based polymer electrolytes. <i>Ionics</i> , 2011 , 17, 29-34	2.7	6
52	Concentration effect of BMIMTF on P(VdF-HFP)/MgTF-based solid polymer electrolyte system. <i>Journal of Materials Research</i> , 2012 , 27, 1488-1496	2.5	6
51	Experimental Studies on Surface Roughness in Drilling MDF Composite Panels using Taguchi and Regression Analysis Method. <i>Journal of Applied Sciences</i> , 2012 , 12, 978-984	0.3	6
50	Cobalt Oxide Nanograins and Silver Nanoparticles Decorated Fibrous Polyaniline Nanocomposite as Battery-Type Electrode for High Performance Supercapattery. <i>Polymers</i> , 2020 , 12,	4.5	6
49	New anticancer zinc(II) complexes comprising thiosemicarbazones of saturated ring: structure, DNA/protein binding, DNA cleavage, topoisomerase-1 inhibition and anti-proliferation studies. <i>Applied Organometallic Chemistry</i> , 2016 , 30, 481-487	3.1	6

48	Conducting polymer/graphene hydrogel electrodes based aqueous smart Supercapacitors: A review and future prospects. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 898, 115626	4.1	6
47	Enhanced electrochemical properties of ZnO-coated LiMnPO ₄ cathode materials for lithium ion batteries. <i>Ionics</i> , 2016 , 22, 1551-1556	2.7	5
46	Colloidal Synthesis of Silicon Nanocrystals Via Inverse Micelles Microemulsion. <i>Zeitschrift Fur Physikalische Chemie</i> , 2009 , 223, 1417-1426	3.1	5
45	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	3.5	5
44	Tailorable solid-state supercapacitors based on poly (N-hydroxymethylacrylamide) hydrogel electrolytes with high ionic conductivity. <i>Journal of Energy Storage</i> , 2021 , 35, 102320	7.8	5
43	Growth of nanostructured cobalt sulfide-based nanocomposite as faradaic binder-free electrode for supercapattery. <i>Journal of Energy Storage</i> , 2021 , 39, 102599	7.8	5
42	Coral-like structured nickel sulfide-cobalt sulfide binder-free electrode for supercapattery. <i>Ionics</i> , 2020 , 26, 3621-3630	2.7	4
41	Fabrication and characterization of natural rubber/Imperata cylindrica cellulose fiber biocomposites. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2015 , 10, 716-723	1.3	4
40	CONDUCTIVITY STUDIES OF BIOPOLYMER ELECTROLYTE BASED ON POTATO STARCH/CHITOSAN BLEND DOPED WITH LICF3SO ₃ . <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2015 , 75,	1.2	4
39	Heterocyclic benzoxazole-based liquid crystals: Synthesis and mesomorphic properties. <i>Chinese Chemical Letters</i> , 2011 , 22, 1191-1191	8.1	4
38	Advances in materials and fabrication of separators in supercapacitors. <i>Materials Advances</i> , 2022 , 3, 1472-1496	3.3	4
37	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	3.9	4
36	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	3.3	4
35	Amelioration of electrochemical and photovoltaic performances on P(VP-co-VAc) based gel polymer electrolyte by incorporating double salt for dye-sensitized solar cells. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	4
34	Structural and electrochemical characterizations of LiMn _{1-x} Al _{0.5x} Cu _{0.5x} PO ₄ (x=0.0, 0.1, 0.2) cathode materials for lithium ion batteries. <i>Materials Letters</i> , 2016 , 173, 131-135	3.3	3
33	Scratch resistance enhancement of 3-glycidyloxypropyltrimethoxysilane coating incorporated with silver nanoparticles. <i>Surface Engineering</i> , 2014 , 30, 177-182	2.6	3
32	The Evaluation of Miscibility of Poly(vinyl Chloride) and Poly(ethylene Oxide) Blends by DSC, Refractive Index and XRD Analyses. <i>International Polymer Processing</i> , 2009 , 24, 354-358	1	3
31	Atypical behaviors of BMIMTF ionic liquid present in ionic conductivity, SEM, and TG/DTG analyses of P(VdF-HFP)/LiTF-based solid polymer electrolyte system. <i>Journal of Materials Research</i> , 2011 , 26, 2945-2951	2.5	3

30	Electrochemical studies of 1,2,3-Benzotriazole inhibitor for acrylic-based coating in different acidic media systems. <i>Journal of Polymer Research</i> , 2020 , 27, 1	2.7	3
29	Electrical property enhancement of poly (vinyl alcohol-co-ethylene)Based gel polymer electrolyte incorporated with triglyme for electric double-layer capacitors (EDLCs). <i>Ionics</i> , 2021 , 27, 361-373	2.7	3
28	Composite of medium-chain-length polyhydroxyalkanoates-co-methyl acrylate and carbon nanotubes as innovative electrodes modifier in microbial fuel cell. <i>Biotechnology and Applied Biochemistry</i> , 2021 , 68, 307-318	2.8	3
27	Development of anti-corrosion coatings using the disposable waste material. <i>Pigment and Resin Technology</i> , 2018 , 47, 478-484	1	3
26	PMMA-LiTFSI based gel polymer electrolyte for lithium-oxygen cell application. <i>Optical Materials</i> , 2021 , 120, 111418	3.3	3
25	Printed-Circuit-Board-Based Two-Electrode System for Electronic Characterization of Proteins. <i>ACS Omega</i> , 2020 , 5, 7802-7808	3.9	2
24	Quasi-Solid Polymer Electrolyte Composed of poly(1-vinylpyrrolidone-co-vinyl acetate) Copolymer and the Influence of Its Composition on Electrochemical Properties and the Performances of Dye-Sensitized Solar Cells. <i>Polymer-Plastics Technology and Engineering</i> , 2018 , 57, 98-107		2
23	The Effect of Incorporation of Multi-Walled Carbon Nanotube into Poly(Ethylene Oxide) Gel Electrolyte on the Photovoltaic Performance of Dye-Sensitized Solar Cell. <i>Polymer-Plastics Technology and Materials</i> , 2019 , 58, 97-104	1.5	2
22	PMMA-LiBOB Gel Polymer Electrolytes in Lithium-Oxygen Cell. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 515, 012010	0.4	2
21	DNA Interactions and Cytotoxicity of the Aryls-Vertexed Zinc(II) Thiosemicarbazone Complex. <i>Bulletin of the Chemical Society of Japan</i> , 2015 , 88, 1156-1158	5.1	2
20	Mixed doped lithium nickel vanadate as cathode material by sol-gel and polymer precursor method. <i>Materials Research Innovations</i> , 2011 , 15, s86-s91	1.9	2
19	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	7.8	2
18	Cobalt oxide decorated zirconium oxide immobilized multiwalled carbon nanotubes as scaffolds for supercapacitors and the CO ₂ reduction reaction. <i>Journal of Energy Storage</i> , 2021 , 44, 103312	7.8	2
17	Effect of physical interaction between polyaniline and metal phosphate nanocomposite as positive electrode for supercapattery. <i>Journal of Energy Storage</i> , 2020 , 32, 101850	7.8	2
16	Sintering behaviour of fluorapatite-silicate composites produced from natural fluorapatite and quartz. <i>Ceramics International</i> , 2021 , 47, 16483-16490	5.1	2
15	Ceramic and Inorganic Polymer Membranes: Preparation, Characterization and Applications 2016 , 89-135		2
14	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	4.4	2
13	A review on the recent advances in binder-free electrodes for electrochemical energy storage application. <i>Journal of Energy Storage</i> , 2022 , 50, 104283	7.8	2

12	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	4.7	1
11	Review on the Revolution of Polymer Electrolytes for Dye-Sensitized Solar Cells. <i>Energy & Fuels</i> , 2021 , 35, 19320-19350	4.1	1
10	Study of the physical and electrochemical properties of hybrid paint system based on zinc-rich primer for mild steel protection. <i>Pigment and Resin Technology</i> , 2020 , 49, 33-40	1	1
9	Highly efficient dye-sensitized solar cells: A comparative study with two different system of solvent-free binary room-temperature ionic liquid-based electrolytes. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51312	2.9	1
8	High-Rate and Long-Life Cycle of Nano-LiMn ₂ O ₄ Under High Cut-Off Potential. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2021 , 18,	2	1
7	Preparation and characteristic analyses of polymer coatings developed by different organic resins. <i>Pigment and Resin Technology</i> , 2013 , 42, 123-127	1	0
6	Renewable and soft dynamic supercapacitors based on poly (acrylamide) hydrogel electrolytes and porous carbon electrodes. <i>Polymer Bulletin</i> ,1	2.4	0
5	Hybrid organic polymer electrolytes for dye-sensitized solar cells 2022 , 181-212		0
4	Synthesis of nano-TiO ₂ coating systems for solar cell. <i>Pigment and Resin Technology</i> , 2020 , 49, 26-32	1	0
3	Effect of electrode substrate and poly(acrylamide) hydrogel electrolytes on the electrochemical performance of supercapacitors. <i>Ionics</i> , 2021 , 27, 4507-4519	2.7	0
2	Thermal Analysis in Polymer Blends 2014 , 347-364		
1	Review of Peak Shaving Features of the Power Box. <i>Energy Technology</i> ,2101055	3.5	