

Subramania Angaiah

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137
papers

4,878
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h-index

65
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142
ext. papers

5,635
ext. citations

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avg, IF

6.27
L-index

#	Paper	IF	Citations
137	Overview of carbon nanostructures and nanocomposites for electromagnetic wave shielding. <i>Carbon</i> , 2018 , 140, 696-733	10.4	403
136	In situ grown nickel selenide on graphene nanohybrid electrodes for high energy density asymmetric supercapacitors. <i>Nanoscale</i> , 2018 , 10, 20414-20425	7.7	268
135	Developments in conducting polymer based counter electrodes for dye-sensitized solar cells [An overview. <i>European Polymer Journal</i> , 2015 , 66, 207-227	5.2	206
134	2D MoSe ₂ -Ni(OH) ₂ nanohybrid as an efficient electrode material with high rate capability for asymmetric supercapacitor applications. <i>Chemical Engineering Journal</i> , 2019 , 355, 881-890	14.7	153
133	Progress on the Photocatalytic Reduction Removal of Chromium Contamination. <i>Chemical Record</i> , 2019 , 19, 873-882	6.6	132
132	Preparation of electrospun Co ₃ O ₄ nanofibers as electrode material for high performance asymmetric supercapacitors. <i>Electrochimica Acta</i> , 2014 , 149, 152-158	6.7	116
131	Development of Novel Acidizing Inhibitors for Carbon Steel Corrosion in 15% Boiling Hydrochloric Acid. <i>Corrosion</i> , 2008 , 64, 541-552	1.8	116
130	High-performance quasi-solid-state dye-sensitized solar cell based on an electrospun PVdF-HFP membrane electrolyte. <i>Langmuir</i> , 2008 , 24, 9816-9	4	114
129	Preparation of a novel composite micro-porous polymer electrolyte membrane for high performance Li-ion battery. <i>Journal of Membrane Science</i> , 2007 , 294, 8-15	9.6	109
128	Hydrothermal assisted in situ growth of CoSe onto graphene nanosheets as a nanohybrid positive electrode for asymmetric supercapacitors. <i>RSC Advances</i> , 2017 , 7, 5853-5862	3.7	94
127	Synthesis and Characterization of ZnNiIn Layered Double Hydroxides Derived Mixed Metal Oxides with Highly Efficient Photoelectrocatalytic Activities. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 836-848	3.9	84
126	Structural and electrochemical properties of micro-porous polymer blend electrolytes based on PVdF-co-HFP-PAN for Li-ion battery applications. <i>Journal of Power Sources</i> , 2006 , 153, 177-182	8.9	82
125	3D assembly of MXene-stabilized spinel ZnMn ₂ O ₄ for highly durable aqueous zinc-ion batteries. <i>Chemical Engineering Journal</i> , 2020 , 399, 125627	14.7	80
124	Graphene quantum dots decorated electrospun TiO ₂ nanofibers as an effective photoanode for dye sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 143, 250-259	6.4	77
123	Sonochemical synthesis of a 2D/2D MoSe ₂ /graphene nanohybrid electrode material for asymmetric supercapacitors. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 467-477	5.8	75
122	Optimizing graphene content in a NiSe/graphene nanohybrid counter electrode to enhance the photovoltaic performance of dye-sensitized solar cells. <i>Nanoscale</i> , 2019 , 11, 17579-17589	7.7	72
121	Constructing efficient mixed-ion perovskite solar cells based on TiO nanorod array. <i>Journal of Colloid and Interface Science</i> , 2019 , 534, 459-468	9.3	72

120	Enhancement in growth rate and productivity of spinach grown in hydroponics with iron oxide nanoparticles. <i>RSC Advances</i> , 2016 , 6, 15451-15459	3.7	70
119	In situ grown cobalt selenide/graphene nanocomposite counter electrodes for enhanced dye-sensitized solar cell performance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14583-14594	13	68
118	Nano-size LiAlO ₂ ceramic filler incorporated porous PVDF-co-HFP electrolyte for lithium-ion battery applications. <i>Electrochimica Acta</i> , 2007 , 52, 4987-4993	6.7	67
117	Electrodeposition and characterization of Cu-TiO ₂ nanocomposite coatings. <i>Journal of Solid State Electrochemistry</i> , 2009 , 13, 1777-1783	2.6	66
116	3D interpenetrating assembly of partially oxidized MXene confined MnBe bimetallic oxide for superior energy storage in ionic liquid. <i>Electrochimica Acta</i> , 2020 , 334, 135546	6.7	62
115	Microstructure of PVdF-co-HFP based electrolyte prepared by preferential polymer dissolution process. <i>Journal of Membrane Science</i> , 2007 , 289, 1-6	9.6	61
114	A simple one-step hydrothermal synthesis of cobalt nickel selenide/graphene nanohybrid as an advanced platinum free counter electrode for dye sensitized solar cell. <i>Electrochimica Acta</i> , 2019 , 312, 157-167	6.7	58
113	Development of 2D La(OH) ₃ /graphene nanohybrid by a facile solvothermal reduction process for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2018 , 281, 329-337	6.7	58
112	Effect of nanoscale CeO ₂ on PVDF-HFP-based nanocomposite porous polymer electrolytes for Li-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2008 , 12, 1135-1141	2.6	57
111	Electrospun Nd ³⁺ -Doped LiMn ₂ O ₄ Nanofibers as High-Performance Cathode Material for Li-Ion Capacitors. <i>ChemElectroChem</i> , 2017 , 4, 2059-2067	4.3	56
110	High-performance dye-sensitized solar cell based on an electrospun poly(vinylidene fluoride-co-hexafluoropropylene)/cobalt sulfide nanocomposite membrane electrolyte. <i>RSC Advances</i> , 2015 , 5, 52026-52032	3.7	56
109	Facile synthesis of electrostatically anchored Nd(OH) ₃ nanorods onto graphene nanosheets as a high capacitance electrode material for supercapacitors. <i>New Journal of Chemistry</i> , 2018 , 42, 2923-2932	3.6	55
108	Effect of MgO nanoparticles on ionic conductivity and electrochemical properties of nanocomposite polymer electrolyte. <i>Journal of Membrane Science</i> , 2007 , 300, 104-110	9.6	55
107	Polyaniline nanofibers by surfactant-assisted dilute polymerization for supercapacitor applications. <i>Polymers for Advanced Technologies</i> , 2008 , 19, 725-727	3.2	54
106	Dimensional stability and electrochemical behaviour of ZrO incorporated electrospun PVdF-HFP based nanocomposite polymer membrane electrolyte for Li-ion capacitors. <i>Scientific Reports</i> , 2017 , 7, 45390	4.9	53
105	Morphology restrained growth of VO by the oxidation of V-MXenes as a fast diffusion controlled cathode material for aqueous zinc ion batteries. <i>Chemical Communications</i> , 2020 , 56, 6412-6415	5.8	50
104	Effect of PVA with various combustion fuels in sol-gel thermolysis process for the synthesis of LiMn ₂ O ₄ nanoparticles for Li-ion batteries. <i>Materials Chemistry and Physics</i> , 2007 , 102, 19-23	4.4	49
103	Montmorillonite embedded electrospun PVdF-HFP nanocomposite membrane electrolyte for Li-ion capacitors. <i>Applied Materials Today</i> , 2016 , 5, 33-40	6.6	49

102	Development of porous TiO ₂ nanofibers by solvasonication process for high performance quantum dot sensitized solar cell. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 179, 417-426	6.4	48
101	High performance electrospun PVdF-HFP/SiO ₂ nanocomposite membrane electrolyte for Li-ion capacitors. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45177	2.9	46
100	New polymer electrolyte based on (PVABAN) blend for Li-ion battery applications. <i>Ionics</i> , 2006 , 12, 175-178	17.8	42
99	Polyol-mediated thermolysis process for the synthesis of MgO nanoparticles and nanowires. <i>Nanotechnology</i> , 2007 , 18, 225601	3.4	41
98	Influence of earth-abundant bimetallic (Fe/Ni) nanoparticle-embedded CNFs as a low-cost counter electrode material for dye-sensitized solar cells. <i>RSC Advances</i> , 2015 , 5, 43611-43619	3.7	40
97	Formation of anatase TiO ₂ nanoparticles by simple polymer gel technique and their properties. <i>Powder Technology</i> , 2011 , 205, 36-41	5.2	40
96	Organic acid doped polythiophene nanoparticles as electrode material for redox supercapacitors. <i>Polymers for Advanced Technologies</i> , 2011 , 22, 788-793	3.2	39
95	Research progress in rare earths and their composites based electrode materials for supercapacitors. <i>Green Energy and Environment</i> , 2020 , 5, 259-273	5.7	38
94	Electrospun TiC embedded CNFs as a low cost platinum-free counter electrode for dye-sensitized solar cell. <i>Materials Research Bulletin</i> , 2016 , 75, 83-90	5.1	34
93	Microwave-assisted exfoliation method to develop platinum-decorated graphene nanosheets as a low cost counter electrode for dye-sensitized solar cells. <i>RSC Advances</i> , 2014 , 4, 36226-36233	3.7	34
92	Development of a conjugated polyaniline incorporated electrospun poly(vinylidene fluoride-co-hexafluoropropylene) composite membrane electrolyte for high performance dye-sensitized solar cells. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	34
91	Glycolipid biosurfactant as an eco-friendly microbial inhibitor for the corrosion of carbon steel in vulnerable corrosive bacterial strains. <i>Journal of Molecular Liquids</i> , 2018 , 261, 473-479	6	33
90	Synthesis and electrochemical performance of P2-Na _{0.67} Al _x Co _{1-x} O ₂ (0.0 ≤ x ≤ 0.5) nanopowders for sodium-ion capacitors. <i>Ionics</i> , 2017 , 23, 731-739	2.7	33
89	Nanocrystalline LiMn ₂ O ₄ thin film cathode material prepared by polymer spray pyrolysis method for Li-ion battery. <i>Journal of Alloys and Compounds</i> , 2010 , 489, 674-677	5.7	32
88	Electrocatalytic cobalt-molybdenum alloy deposits. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 2843-2847	6.7	32
87	Development of PVA based micro-porous polymer electrolyte by a novel preferential polymer dissolution process. <i>Journal of Power Sources</i> , 2005 , 141, 188-192	8.9	32
86	Development of electrospun PAN/CoS nanocomposite membrane electrolyte for high-performance DSSC. <i>Ionics</i> , 2018 , 24, 4071-4080	2.7	31
85	Synthesis of nano-crystalline (Ba _{0.5} Sr _{0.5})Co _{0.8} Fe _{0.2} O ₃ cathode material by a novel sol-gel thermolysis process for IT-SOFCs. <i>Journal of Power Sources</i> , 2007 , 165, 728-732	8.9	31

84	Synthesis of Polythiophene and its Carbonaceous Nanofibers as Electrode Materials for Asymmetric Supercapacitors. <i>Advanced Materials Research</i> , 2014 , 938, 151-157	0.5	30
83	Cu ₂ ZnSnSe ₄ QDs sensitized electrospun porous TiO ₂ nanofibers as photoanode for high performance QDSC. <i>Solar Energy</i> , 2018 , 171, 571-579	6.8	28
82	Synthesis of ZrO ₂ nanoparticles in microwave hydrolysis of Zr (IV) salt solutions on ionic conductivity of PVdF-co-HFP-based polymer electrolyte by the inclusion of ZrO ₂ nanoparticles. <i>Journal of Physics and Chemistry of Solids</i> , 2007 , 68, 264-271	3.9	28
81	Preparation and LPG-gas sensing characteristics of p-type semiconducting LaNbO ₄ ceramic material. <i>Applied Surface Science</i> , 2013 , 283, 58-64	6.7	27
80	Synthesis, sinterability and ionic conductivity of nanocrystalline Pr-doped La ₂ Mo ₂ O ₉ fast oxide-ion conductors. <i>Journal of Power Sources</i> , 2007 , 167, 319-324	8.9	27
79	Construction of heterogeneous 2D layered MoS ₂ /MXene nanohybrid anode material via interstratification process and its synergetic effect for asymmetric supercapacitors. <i>Applied Surface Science</i> , 2020 , 534, 147644	6.7	27
78	Anti-bacterial and anti-biofilm properties of green synthesized copper nanoparticles from <i>Cardiospermum halicacabum</i> leaf extract. <i>Bioprocess and Biosystems Engineering</i> , 2020 , 43, 1649-1657	3.7	26
77	Development of nanocrystalline CrNbO ₄ based p-type semiconducting gas sensor for LPG, ethanol and ammonia. <i>Sensors and Actuators B: Chemical</i> , 2012 , 168, 165-171	8.5	26
76	Preparation of a microporous gel polymer electrolyte with a novel preferential polymer dissolution process for Li-ion batteries. <i>Journal of Applied Polymer Science</i> , 2005 , 98, 1891-1896	2.9	26
75	A Facile Chemical Precipitation Method for the Synthesis of Nd(OH) ₃ and La(OH) ₃ Nanopowders and their Supercapacitor Performances. <i>ChemistrySelect</i> , 2018 , 3, 12719-12724	1.8	25
74	Effect of different compositions of ethylene carbonate and propylene carbonate containing iodide/triiodide redox electrolyte on the photovoltaic performance of DSSC. <i>Ionics</i> , 2013 , 19, 1649-1653	2.7	24
73	Spontaneous exfoliation and tailoring derived oxygen-rich porous carbon nanosheets for superior Li ⁺ storage performance. <i>Chemical Engineering Journal</i> , 2020 , 387, 124104	14.7	21
72	Combustion synthesis of inverse spinel LiNiVO ₄ nano-particles using gelatine as the new fuel. <i>Materials Letters</i> , 2006 , 60, 3023-3026	3.3	21
71	Electrodeposition and characterisation of Cu/MWCNTs nanocomposite coatings. <i>Surface Engineering</i> , 2017 , 33, 369-374	2.6	20
70	Synthesis and Characterization of Nanostructured Copper Zinc Tin Sulphide (CZTS) for Humidity Sensing Applications. <i>IEEE Sensors Journal</i> , 2019 , 19, 2837-2846	4	20
69	Influence of Various Ionic Liquids Embedded Electrospun Polymer Membrane Electrolytes on the Photovoltaic Performance of DSSC. <i>Engineered Science</i> , 2018 ,	3.8	19
68	Influence of PVP template on the formation of porous TiO ₂ nanofibers by electrospinning technique for dye-sensitized solar cell. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 120, 1211-1218	2.6	18
67	Bimetal (Ni/Co) nanoparticles-incorporated electrospun carbon nanofibers as an alternative counter electrode for dye-sensitized solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	18

66	Effect of porosity on PVdF-co-HFP/PMMA-based electrolyte. <i>Materials Chemistry and Physics</i> , 2008 , 110, 11-16	4.4	16
65	Synthesis of nano-crystalline LiSrxMn2xO4 powder by a novel sol-gel thermolysis process for Li-ion polymer battery. <i>Journal of Power Sources</i> , 2006 , 158, 1410-1413	8.9	16
64	Aldimines as Effective Corrosion Inhibitors for Mild Steel in Hydrochloric Acid Solution. <i>Journal of Applied Electrochemistry</i> , 2004 , 34, 693-696	2.6	16
63	ZnSe quantum dots sensitized electrospun ZnO nanofibers as an efficient photoanode for improved performance of QDSSC. <i>Materials Science in Semiconductor Processing</i> , 2017 , 64, 16-23	4.3	15
62	Influence of Al_2O_3 nanoparticles embedded- TiO_2 nanofibers based photoanodes on photovoltaic performance of a dye sensitized solar cell. <i>RSC Advances</i> , 2014 , 4, 52871-52877	3.7	15
61	Electrodeposition and characterisation of Cu@ZnO nanocomposite coatings. <i>Surface Engineering</i> , 2013 , 29, 511-515	2.6	15
60	Microwave-assisted combustion synthesis of nanocrystalline $\text{La}_2\text{Mo}_2\text{O}_9$ oxide-ion conductor and its characterization. <i>Journal of Solid State Electrochemistry</i> , 2007 , 12, 143-148	2.6	15
59	Preparation and electrochemical behaviour of LiMn_2O_4 thin film by spray pyrolysis method. <i>Thin Solid Films</i> , 2008 , 516, 8295-8298	2.2	15
58	Synthesis and characterization of InNbO_4 nanopowder for gas sensors. <i>Talanta</i> , 2012 , 88, 115-20	6.2	14
57	All-Solid-State Electrospun Poly(vinylidene fluoride-co-hexafluoropropylene)/ $\text{Li}_{7.1}\text{La}_3\text{Ba}_{0.05}\text{Zr}_{1.95}\text{O}_{12}$ Nanohybrid Membrane Electrolyte for High-Energy Li-Ion Capacitors. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 30145-30154	3.8	14
56	A wide solar spectrum light harvesting Ag_2Se quantum dot-sensitized porous TiO_2 nanofibers as photoanode for high-performance QDSC. <i>Journal of Nanoparticle Research</i> , 2019 , 21, 1	2.3	13
55	Influence of pulse reverse current on mechanical and corrosion resistance properties of Ni-MoSe ₂ nanocomposite coatings. <i>Applied Surface Science</i> , 2019 , 493, 225-230	6.7	13
54	Preparation of TiO_2 paste using poly(vinylpyrrolidone) for dye sensitized solar cells. <i>Thin Solid Films</i> , 2012 , 520, 7018-7021	2.2	13
53	Development of MoSe ₂ /PANI composite nanofibers as an alternative to Pt counter electrode to boost the photoconversion efficiency of dye sensitized solar cell. <i>Journal of Solid State Electrochemistry</i> , 2020 , 24, 2289-2300	2.6	12
52	Mechanical and corrosion resistance properties of electrodeposited Cu@ZrO_2 nanocomposites. <i>Transactions of the Institute of Metal Finishing</i> , 2015 , 93, 262-266	1.3	12
51	Development of tungsten diselenide/polyaniline composite nanofibers as an efficient electrocatalytic counter electrode material for dye-sensitized solar cell. <i>Solar Energy</i> , 2020 , 209, 538-546	6.8	12
50	Hydrothermally Synthesized LiMn_2O_4 Nanotubes Anode Material with Enhanced Li-Ion Battery Performances. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 7387-7391	1.3	11
49	$\text{Cu}_2\text{AgInSe}_4$ QDs sensitized electrospun porous TiO_2 nanofibers as an efficient photoanode for quantum dot sensitized solar cells. <i>Solar Energy</i> , 2020 , 199, 317-325	6.8	11

48	Preparation, characterization, and evaluation of LiNi _{0.4} Co _{0.6} O ₂ nanofibers for supercapacitor applications. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 2387-2392	2.6	11
47	Biologically reduced graphene oxide as a green and easily available photocatalyst for degradation of organic dyes. <i>Environmental Research</i> , 2021 , 196, 110983	7.9	11
46	Development of CeO ₂ nanorods reinforced electrodeposited nickel nanocomposite coating and its tribological and corrosion resistance properties. <i>Journal of Rare Earths</i> , 2018 , 36, 1319-1325	3.7	11
45	Polyol thermolysis synthesis of TiO ₂ nanoparticles and its paste formulation to fabricate photoanode for dye-sensitized solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 119, 497-502	2.6	10
44	Selective ethanol gas sensing behavior of mesoporous n-type semiconducting FeNbO ₄ nanopowder obtained by niobium nitrate process. <i>Current Applied Physics</i> , 2014 , 14, 439-446	2.6	10
43	A fast Li-ion conducting Li _{7.1} La ₃ Sr _{0.05} Zr _{1.95} O ₁₂ embedded electrospun PVDF-HFP nanohybrid membrane electrolyte for all-solid-state Li-ion capacitors. <i>Materials Today Communications</i> , 2020 , 25, 101497	2.5	10
42	Microwave-assisted combustion synthesis of nanocrystalline Sm-doped La ₂ Mo ₂ O ₉ oxide-ion conductors for SOFC application. <i>Materials Research Bulletin</i> , 2015 , 68, 320-325	5.1	9
41	Assisted combustion synthesis and characterization of Pr _{0.6} Sr _{0.4} MnO ₃ nano crystalline powder as cathode material for IT-SOFC. <i>Ceramics International</i> , 2017 , 43, 988-991	5.1	9
40	Effect of 1-butyl-3-methylimidazolium iodide containing electrospun poly(vinylidene fluoride-co-hexafluoropropylene) membrane electrolyte on the photovoltaic performance of dye-sensitized solar cells. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	9
39	Development of wide band gap sensor based on AlNbO ₄ nanopowder for ethanol. <i>Journal of Alloys and Compounds</i> , 2012 , 526, 110-115	5.7	9
38	Synthesis and characterization of nanocrystalline La ₂ Mo ₂ O ₉ fast oxide-ion conductor by an in-situ polymerization method. <i>Materials Research Bulletin</i> , 2008 , 43, 1153-1159	5.1	9
37	Influence of Polypyrrole Incorporated Electrospun Poly(vinylidene fluoride-co-hexafluoropropylene) Nanofibrous Composite Membrane Electrolyte on the Photovoltaic Performance of Dye Sensitized Solar Cell. <i>Engineered Science</i> , 2020 ,	3.8	9
36	Influence of a bifunctional linker on the loading of Cu ₂ AgInS ₄ QDs onto porous TiO ₂ NFs to use as an efficient photoanode to boost the photoconversion efficiency of QDSCs. <i>New Journal of Chemistry</i> , 2020 , 44, 13148-13156	3.6	8
35	Synthesis and characterization of nanocrystalline La ₂ Mo ₂ O ₉ oxide-ion conductor by a novel polyaspartate precursor method. <i>Journal of Alloys and Compounds</i> , 2008 , 456, 234-238	5.7	8
34	Recent Progress in Graphene-Based Microsupercapacitors. <i>Energy Technology</i> , 2021 , 9, 2000844	3.5	8
33	Mesoporous Carbon/β-FeO Nanoleaf Composites for Disposable Nitrite Sensors and Energy Storage Applications. <i>ACS Omega</i> , 2020 , 5, 32160-32170	3.9	7
32	The influence of benzoyl hydrazine and some of its substituents on corrosion inhibition of carbon steel in sulphuric acid solution. <i>Anti-Corrosion Methods and Materials</i> , 2004 , 51, 414-419	0.8	7
31	Synthesis and characterization of LiMg _y Mn _{2-y} O ₄ cathode materials by a modified Pechini process for lithium batteries. <i>Bulletin of Materials Science</i> , 2005 , 28, 663-667	1.7	7

30	In-Situ Growth of CoS Nanoparticles Onto Electrospun Graphitized Carbon Nanofibers as an Efficient Counter Electrode for Dye-Sensitized Solar Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 398-404	1.3	6
29	One-pot electrochemical preparation of copper species immobilized poly(o-aminophenol)/MWCNT composite with excellent electrocatalytic activity for use as an H ₂ O ₂ sensor. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 1356-1364	6.8	6
28	A New Class of P(VdF-HFP)-CeO ₂ -LiClO ₄ -Based Composite Microporous Membrane Electrolytes for Li-Ion Batteries. <i>International Journal of Electrochemistry</i> , 2011 , 2011, 1-10	2.4	6
27	Enhanced Electrochemical Performance of Cu ²⁺ doped TiO ₂ Nanoparticles for Lithium-ion Battery. <i>ES Materials & Manufacturing</i> , 2018 ,	3.7	6
26	Designing Na ₂ Zn ₂ TeO ₆ -Embedded 3D-Nanofibrous Poly(vinylidene fluoride)-co-hexafluoropropylene-Based Nanohybrid Electrolyte via Electrospinning for Durable Sodium-Ion Capacitors. <i>ACS Applied Energy Materials</i> , 2021 , 4, 8475-8487	6.1	6
25	Polyaspartic-acid-pyrolysis route for the synthesis of nanocrystalline LiCo _{0.15} Mn _{1.85} O ₄ powder for Li-ion batteries. <i>Ionics</i> , 2007 , 13, 61-65	2.7	5
24	Diethylamine phosphate as VPI for steel components. <i>Materials Chemistry and Physics</i> , 2006 , 100, 193-197.	4	5
23	The hole transporting behaviour of Cu ₂ AgInS ₄ and Cu ₂ AgInSe ₄ for a carbon electrode-based perovskite solar cell. <i>New Journal of Chemistry</i> , 2021 , 45, 423-430	3.6	5
22	Facile synthesis of reduced graphene oxide using and extracts and their in vitro cytotoxicity activity against human breast (MCF-7) and lung (A549) cancer cell lines. <i>3 Biotech</i> , 2021 , 11, 157	2.8	5
21	Preparation of compact TiO ₂ thin film by artist spray gun-assisted pyrolysis method for lead-free perovskite solar cell. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 10412-10423	2.1	4
20	Microbial Surfactants are Next-Generation Biomolecules for Sustainable Remediation of Polyaromatic Hydrocarbons 2021 , 139-158		4
19	Preparation of nanoparticle size LiBiO ₂ by combustion method and its electrochemical studies for lithium secondary cells 2005 , 65, 973-980		3
18	Influence of pulse reverse current parameters on electrodeposition of copper-graphene nanocomposite coating. <i>Applied Surface Science Advances</i> , 2021 , 5, 100116	2.6	3
17	Nanohybrid engineering of the vertically confined marigold structure of rGO-VSe ₂ as an advanced cathode material for aqueous zinc-ion battery. <i>Journal of Alloys and Compounds</i> , 2021 , 882, 160704	5.7	3
16	A novel polyaspartate precursor method for the synthesis of LiCa ₂ Mn ₂ O ₄ nanoparticles for Li-ion batteries. <i>Nanotechnology</i> , 2007 , 18, 065603	3.4	2
15	Synthesis of Nanocrystalline LiCdxMn _{2-x} O ₄ Cathode Materials by Using a New Combustion Fuel for Li-ion Polymer Battery. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2006 , 36, 203-207		2
14	Cu ₂ AgInS ₂ Se ₂ quantum dots sensitized porous TiO ₂ nanofibers as a photoanode for high-performance quantum dot sensitized solar cell. <i>International Journal of Energy Research</i> , 2021 , 45, 13563-13574	4.5	2
13	High Performance Electrospun PVdF-HFP/MMT Nanofibrous Composite Membrane Electrolyte for Li-Ion Capacitors. <i>Nano Hybrids and Composites</i> , 2017 , 14, 1-15	0.7	1

12	Alternating-current impedance and chronoamperometry studies of poly(vinylidene fluoride-co-hexafluoropropylene)polyacrylonitrile-based microporous polymer blend electrolytes prepared by a phase-inversion technique. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 2830-2836	2.9	1
11	A one-step procedure to prepare LiAsF ₆ and other allied lithium-based fluoro compounds used as electrolyte in lithium cells. <i>Ionics</i> , 2006 , 12, 327-329	2.7	1
10	Cobalt selenide decorated polyaniline composite nanofibers as a newer counter electrode for dye-sensitized solar cell. <i>Polymers for Advanced Technologies</i> , 2021 , 32, 3137-3149	3.2	1
9	Fabrication of a hole transporting Cu ₂ AgIn(S _{0.5} Se _{0.5}) ₄ nanoparticles deposited carbon counter electrode for perovskite solar cell. <i>Materials Science in Semiconductor Processing</i> , 2022 , 147, 106686	4.3	1
8	Polymer supported electrospun nanofibers with supramolecular materials for biological applications a review. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 1-17	3	1
7	A new approach to synthesize LiAsF ₆ and other lithium based fluorochemicals for rechargeable lithium cells. <i>Ionics</i> , 2005 , 11, 198-201	2.7	0
6	Green synthesis of reduced graphene oxide using Plectranthus amboinicus leaf extract and its supercapacitive performance. <i>Bulletin of Materials Science</i> , 2022 , 45, 1	1.7	0
5	Composite polymer electrolytes: progress, challenges, and future outlook for sodium-ion batteries. <i>Advanced Composites and Hybrid Materials</i> , 1	8.7	0
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3	Preparation and Piezoelectric Properties of Lead Zirconate Titanate Ceramics. <i>Ferroelectrics</i> , 2005 , 325, 43-48	0.6	
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1	Electrospun Nanofibers based Electrodes and Electrolytes for Supercapacitors 2022 , 351-389		