

Rajan Jose

List of Publications by Year in Descending Order

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

258
papers

11,280
citations

57
h-index

99
g-index

275
ext. papers

13,011
ext. citations

6
avg, IF

6.8
L-index

#	Paper	IF	Citations
258	Sentence Boundary Extraction from Scientific Literature of Electric Double Layer Capacitor Domain: Tools and Techniques. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 1352	2.6	0
257	Metal oxide nanofibers in solar cells 2022 , 277-300		0
256	Metal oxide nanotubes via electrodeposition for battery-electrochemical capacitor hybrid device. <i>Synthetic Metals</i> , 2022 , 284, 116991	3.6	1
255	Addressing sustainability gaps. <i>Science of the Total Environment</i> , 2022 , 806, 151208	10.2	6
254	Hierarchical Interconnected Hybrid Solid Electrolyte Membrane for All-Solid-State Lithium-Metal Batteries Based on High-Voltage NCM811 Cathodes. <i>ACS Applied Energy Materials</i> , 2022 , 5, 2580-2595	6.1	2
253	Electrospinning research and products: The road and the way forward. <i>Applied Physics Reviews</i> , 2022 , 9, 011319	17.3	4
252	Lithium Nafion-Modified LiGaLaZrOF Trilayer Hybrid Solid Electrolyte for High-Voltage Cathodes in All-Solid-State Lithium-Metal Batteries.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	3
251	Metal-organic framework-derived ZrO ₂ /NiCo ₂ O ₄ /graphene mesoporous cake-like structure as enhanced bifunctional electrocatalytic cathodes for long life Li-O ₂ batteries. <i>Electrochimica Acta</i> , 2022 , 412, 140147	6.7	0
250	Flexible, ultralight, and high-energy density electrochemical capacitors using sustainable materials. <i>Electrochimica Acta</i> , 2022 , 415, 140239	6.7	1
249	Alkaline Formate Oxidation with Colloidal Palladium ^{III} in Alloy Nanocrystals. <i>ACS Applied Energy Materials</i> , 2022 , 5, 266-277	6.1	0
248	Operando investigation on the fast two-phase transition kinetics of LiFePO ₄ /C composite cathodes with carbon additives for lithium-ion batteries. <i>Electrochimica Acta</i> , 2022 , 140356	6.7	2
247	Ultrasensitive aptasensor using electrospun MXene/polyvinylidene fluoride nanofiber composite for Ochratoxin A detection.. <i>Food Chemistry</i> , 2022 , 390, 133105	8.5	0
246	A Perspective on the Commercial Viability of Perovskite Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2170113	7.1	2
245	Study of Keyword Extraction Techniques for Electric Double-Layer Capacitor Domain Using Text Similarity Indexes: An Experimental Analysis. <i>Complexity</i> , 2021 , 2021, 1-12	1.6	2
244	Structural parameters versus third-order optical susceptibility of zinc porphyrin molecules. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 17461-17470	7.1	0
243	Thin metal film on porous carbon as a medium for electrochemical energy storage. <i>Journal of Power Sources</i> , 2021 , 489, 229522	8.9	9
242	Lead-free and electron transport layer-free perovskite yarns: Designed for knitted solar fabrics. <i>Chemical Engineering Journal</i> , 2021 , 410, 128384	14.7	3

241	Structural and optoelectronic properties of hybrid halide perovskites for solar cells. <i>Organic Electronics</i> , 2021 , 91, 106077	3.5	10
240	Transformation of Supercapacitive Charge Storage Behaviour in a Multi elemental Spinel CuMn ₂ O ₄ Nanofibers with Alkaline and Neutral Electrolytes. <i>Advanced Fiber Materials</i> , 2021 , 3, 265-274	10.9	12
239	Glucose Biosensor Based on Glucose Oxidase-Horseradish Peroxidase/Multiporous Tin Oxide (SnO ₂) Modified Electrode. <i>Journal of Nanoscience and Nanotechnology</i> , 2021 , 21, 3059-3064	1.3	1
238	Energy storage in metal cobaltite electrodes: Opportunities & challenges in magnesium cobalt oxide. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 141, 110798	16.2	24
237	Phosphate Polyanion Materials as High-Voltage Lithium-Ion Battery Cathode: A Review. <i>Energy & Fuels</i> , 2021 , 35, 10428-10450	4.1	22
236	Dual Hybrid Energy Storage Device with a Battery/Electrochemical Capacitor Hybrid Cathode and a Battery-Type Anode. <i>Energy & Fuels</i> , 2021 , 35, 13438-13448	4.1	1
235	A Sandwich-Structure Composite Polymer Electrolyte Based on Poly(vinyl alcohol)/Poly(4-lithium styrene sulfonic acid) for High-Voltage Lithium Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 8016-8029	6.1	2
234	Molecular recognition of isovanillin crosslinked carrageenan biocomposite for drug delivery application. <i>Chemical Engineering Communications</i> , 2021 , 208, 741-752	2.2	6
233	Charge storage in the PANI/MnO ₂ polymer/nanocomposite system. <i>Materials Today: Proceedings</i> , 2021 , 41, 513-519	1.4	8
232	Electrospun SnO ₂ -CuO semiconductor composite nanofibers and its electrochemical properties. <i>Materials Today: Proceedings</i> , 2021 , 46, 1631-1634	1.4	3
231	Flexible hybrid solid electrolyte incorporating ligament-shaped Li ₆ . ₂₅ Al ₀ . ₂₅ La ₃ Zr ₂ O ₁₂ filler for all-solid-state lithium-metal batteries. <i>Electrochimica Acta</i> , 2021 , 366, 137348	6.7	8
230	Characterization of supercapacitive charge storage device using electrochemical impedance spectroscopy. <i>Materials Today: Proceedings</i> , 2021 , 46, 1588-1594	1.4	4
229	Enhanced performance of a Ni-rich LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ cathode material formed through Taylor flow synthesis and surface modification with Li ₂ MoO ₄ . <i>Chemical Engineering Journal</i> , 2021 , 413, 127150	14.7	12
228	Effect of Geometrical Parameters on Piezoresponse of Nanofibrous Wearable Piezoelectric Nanofabrics Under Low Impact Pressure. <i>Macromolecular Materials and Engineering</i> , 2021 , 306, 2000510	3.9	7
227	Using a Couette/Taylor vortex flow reactor to prepare a uniform and highly stable Li[Ni _{0.8} Co _{0.1} Al _{0.05}]O ₂ cathode material. <i>Journal of Alloys and Compounds</i> , 2021 , 857, 157594	5.7	3
226	Void-size-matched hierarchical 3D titania flowers in porous carbon as an electrode for high-density supercapacitive charge storage. <i>Journal of Alloys and Compounds</i> , 2021 , 858, 157649	5.7	7
225	The solar reduction of graphene oxide on a large scale for high density electrochemical energy storage. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 2724-2733	5.8	2
224	Hybrid Nanocomposite Metal Oxide Materials for Supercapacitor Application 2021 , 673-724		

223	Fiber-Shaped Electronic Devices. <i>Advanced Energy Materials</i> , 2021 , 11, 2101443	21.8	15
222	Unraveling synergistic mixing of SnO ₂ /TiO ₂ composite as anode for Li-ion battery and their electrochemical properties. <i>Journal of Materials Research</i> , 2021 , 36, 4120	2.5	1
221	Tri-metallic Co-Ni-Cu based metal organic framework nanostructures for the detection of an anticancer drug nilutamide. <i>Sensors and Actuators A: Physical</i> , 2021 , 325, 112711	3.9	4
220	Comparison of document similarity algorithms in extracting document keywords from an academic paper 2021 ,		1
219	The effect of lithium-excess on Ni-rich LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ cathode materials prepared by a Taylor flow reactor. <i>Electrochimica Acta</i> , 2021 , 391, 138982	6.7	0
218	A Perspective on the Commercial Viability of Perovskite Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2100401	7.1	10
217	Template-assisted electrodeposited cupric oxide nanotubes and hierarchical nanospikes for tailoring electrode-electrolyte interfacial charge transfer. <i>Ceramics International</i> , 2021 ,	5.1	1
216	Understanding electrochemical capacitors with in-situ techniques. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 149, 111418	16.2	14
215	Eco-innovation impacts on recycled product performance and competitiveness: Malaysian automotive industry. <i>Sustainable Production and Consumption</i> , 2021 , 28, 1677-1686	8.2	4
214	Atomic defects of graphene-carbon nanotubes impact on surface wettability. <i>Applied Surface Science</i> , 2021 , 567, 150803	6.7	1
213	A modified trilayer membrane for suppressing Li dendrite growth in all-solid-state lithium-metal batteries. <i>Chemical Engineering Journal</i> , 2021 , 426, 131850	14.7	4
212	Electrochemical Characteristics of a Polymer/Garnet Trilayer Composite Electrolyte for Solid-State Lithium-Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 2507-2520	9.5	11
211	Water Purification through a Novel Electrospun Carbon Nanofiber Membrane.. <i>ACS Omega</i> , 2021 , 6, 34744-34751	3.9	5
210	Foam-like 3D Graphene as a Charge Transport Modifier in Zinc Oxide Electron Transport Material in Perovskite Solar Cells. <i>Photochem</i> , 2021 , 1, 523-536		0
209	High Capacity and Rate Capability Binder-less Ternary Transition Metal-organic Framework as Anode Material for Lithium-ion Battery. <i>Electroanalysis</i> , 2020 , 32, 3180-3188	3	6
208	Synthesis and Electrochemical Properties of Ternary Co-, Cu- and Ni- Based Metal-Organic Frameworks Electrode for Battery Supercapacitor Hybrid Application. <i>Materials Science Forum</i> , 2020 , 981, 17-22	0.4	2
207	Activated carbon with graphitic content from stinky bean seedpod biowaste as supercapacitive electrode material. <i>Ionics</i> , 2020 , 26, 4081-4093	2.7	16
206	Advances in stable and flexible perovskite solar cells. <i>Current Applied Physics</i> , 2020 , 20, 720-737	2.6	12

205	Void Space Control in Porous Carbon for High-Density Supercapacitive Charge Storage. <i>Energy & Fuels</i> , 2020 , 34, 5072-5083	4.1	38
204	Flexible Solar Yarns with 15.7% Power Conversion Efficiency, Based on Electrospun Perovskite Composite Nanofibers. <i>Solar Rrl</i> , 2020 , 4, 2000269	7.1	15
203	Direct pyrolysis and ultrasound assisted preparation of N, S co-doped graphene/FeC nanocomposite as an efficient electrocatalyst for oxygen reduction and oxygen evolution reactions. <i>Ultrasonics Sonochemistry</i> , 2020 , 66, 105111	8.9	18
202	Composite Polymer Electrolytes Based on PVA/PAN for All-Solid-State Lithium Metal Batteries Operated at Room Temperature. <i>ACS Applied Energy Materials</i> , 2020 , 3, 11024-11035	6.1	13
201	Meso-Zn(II)porphyrins of tailored functional groups for intensifying the photoacoustic signal. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 8546-8559	7.1	1
200	Tuning Palladium Nickel Phosphide toward Efficient Oxygen Evolution Performance. <i>ACS Applied Energy Materials</i> , 2020 , 3, 879-888	6.1	11
199	Advances in stability of perovskite solar cells. <i>Organic Electronics</i> , 2020 , 78, 105590	3.5	67
198	Growth of LiNi _{0.5} Mn _{1.5} O ₄ crystals on reduced graphene oxide sheets for high energy and power density charge storage. <i>Materials Research Bulletin</i> , 2020 , 124, 110742	5.1	6
197	Facile fabrication of thin metal oxide films on porous carbon for high density charge storage. <i>Journal of Colloid and Interface Science</i> , 2020 , 562, 567-577	9.3	39
196	Physical reduction of graphene oxide for supercapacitive charge storage. <i>Journal of Alloys and Compounds</i> , 2020 , 822, 153636	5.7	25
195	Mechanical alloy coating of LATP decorated porous carbon on LiFe _{1/3} Mn _{1/3} Co _{1/3} PO ₄ /C composite cathode for high-voltage Li-ion battery. <i>Electrochimica Acta</i> , 2020 , 359, 136980	6.7	5
194	Phase transformed iron oxide /iron (oxy) hydroxide composite nanoflorets grown on foam-like graphene as a high performing adsorbent. <i>Chemical Engineering Journal</i> , 2020 , 388, 124306	14.7	12
193	Poly(vinyl alcohol)/Melamine Composite Containing LATP Nanocrystals as a High-Performing Nanofibrous Membrane Separator for High-Power, High-Voltage Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 8487-8499	6.1	8
192	Thin Chemisorbed Polyaniline Film on Cobalt Oxide as an Electrode for Hybrid Energy Storage Devices. <i>ChemistrySelect</i> , 2020 , 5, 7973-7983	1.8	8
191	Artificial Intelligence-Driven Circular Economy as a Key Enabler for Sustainable Energy Management. <i>Materials Circular Economy</i> , 2020 , 2, 1	4.3	11
190	Effects of alkali and transition metal-doped TiO hole blocking layers on the perovskite solar cells obtained by a two-step sequential deposition method in air and under vacuum.. <i>RSC Advances</i> , 2020 , 10, 13139-13148	3.7	9
189	Electrolyte selection for supercapacitive devices: a critical review. <i>Nanoscale Advances</i> , 2019 , 1, 3807-3835	5.1	337
188	Perovskite Solar Fibers: Current Status, Issues and Challenges. <i>Advanced Fiber Materials</i> , 2019 , 1, 101-125	0.9	16

187	Critical insight: challenges and requirements of fibre electrodes for wearable electrochemical energy storage. <i>Energy and Environmental Science</i> , 2019 , 12, 2148-2160	35.4	85
186	SnO ₂ dye-sensitized solar cells 2019 , 205-285		2
185	Photocurrents in crystal-amorphous hybrid stannous oxide/alumina binary nanofibers. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 6337-6348	3.8	11
184	Highly porous TiO ₂ nanofibers by humid-electrospinning with enhanced photocatalytic properties. <i>Journal of Alloys and Compounds</i> , 2019 , 790, 257-265	5.7	42
183	Highly efficient photovoltaic energy storage hybrid system based on ultrathin carbon electrodes designed for a portable and flexible power source. <i>Journal of Power Sources</i> , 2019 , 422, 196-207	8.9	9
182	Correlation study on temperature dependent conductivity and line profile along the LLTO/LFP-C cross section for all solid-state Lithium-ion batteries. <i>Solid State Ionics</i> , 2019 , 341, 115032	3.3	8
181	Fabrication of a glucose oxidase/multiporous tin-oxide nanofiber film on Prussian blue modified gold electrode for biosensing. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 852, 113550	4.1	8
180	Pseudocapacitive Charge Storage in Thin Nanobelts. <i>Advanced Fiber Materials</i> , 2019 , 1, 205-213	10.9	29
179	A Frontier 2D Nanobattery: Improving Challenges (Hotumese) and Development 2019 , 2, 114-121		2
178	Surface Plasmon Assisted Electron Hole Migration for High Photocurrent Density Generation in a Perovskite Solar Cell. <i>ACS Applied Energy Materials</i> , 2019 , 2, 8707-8714	6.1	9
177	Perovskite solar cell-hybrid devices: thermoelectrically, electrochemically, and piezoelectrically connected power packs. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 26661-26692	13	18
176	Direct Growth of Triple Cation Metal Organic Framework on a Metal Substrate for Electrochemical Energy Storage. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 665-674	3.9	22
175	Polymer versus Cation of Gel Polymer Electrolytes in the Charge Storage of Asymmetric Supercapacitors. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 654-664	3.9	19
174	Characteristics of ZnO/BiO ₂ Composite Nanofibers as a Photoanode in Dye-Sensitized Solar Cells. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 643-653	3.9	25
173	Ramification of zinc oxide doped hydroxyapatite biocomposites for the mineralization of osteoblasts. <i>Materials Science and Engineering C</i> , 2019 , 96, 337-346	8.3	32
172	Application of polymerized multiporous nanofiber of SnO for designing a bienzyme glucose biosensor based on HRP/GOx. <i>International Journal of Biological Macromolecules</i> , 2019 , 123, 1028-1034	7.9	26
171	Functionalized core/shell nanofibers for the differentiation of mesenchymal stem cells for vascular tissue engineering. <i>Nanomedicine</i> , 2019 , 14, 201-214	5.6	9
170	Hemoglobin Immobilization on Multiporous Nanofibers of SnO and Chitosan Composite for Hydrogen Peroxide Sensing. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 2027-2033	1.3	3

169	Synthesis and characterization of carbon microspheres from rubber wood by hydrothermal carbonization. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 1374-1383	3.5	11
168	Conversion of Oil Palm Kernel Shell Biomass to Activated Carbon for Supercapacitor Electrode Application. <i>Waste and Biomass Valorization</i> , 2019 , 10, 1731-1740	3.2	53
167	Synergistic combination of electronic and electrical properties of SnO ₂ and TiO ₂ in a single SnO ₂ -TiO ₂ composite nanofiber for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2018 , 263, 524-532	6.7	49
166	Tin oxide as an emerging electron transport medium in perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 179, 102-117	6.4	32
165	Enhanced direct electron transfer of redox protein based on multiporous SnO nanofiber-carbon nanotube nanocomposite and its application in biosensing. <i>International Journal of Biological Macromolecules</i> , 2018 , 114, 1071-1076	7.9	14
164	In situ encapsulation of tin oxide and cobalt oxide composite in porous carbon for high-performance energy storage applications. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 817, 217-225	4.1	25
163	Tandem perovskite solar cells. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 84, 89-110	16.2	69
162	Environment-Modulated Crystallization of CuO and CuO Nanowires by Electrospinning and Their Charge Storage Properties. <i>Langmuir</i> , 2018 , 34, 1873-1882	4	46
161	Materials 4.0: Materials big data enabled materials discovery. <i>Applied Materials Today</i> , 2018 , 10, 127-132	6.6	81
160	Hydrothermal syntheses of tungsten doped TiO ₂ and TiO ₂ /WO ₃ composite using metal oxide precursors for charge storage applications. <i>Journal of Alloys and Compounds</i> , 2018 , 740, 703-710	5.7	47
159	Large scale synthesis of 3D nanoflowers of SnO ₂ /TiO ₂ composite via electrospinning with synergistic properties. <i>Materials Letters</i> , 2018 , 225, 117-121	3.3	24
158	Data of chemical analysis and electrical properties of SnO-TiO composite nanofibers. <i>Data in Brief</i> , 2018 , 18, 860-863	1.2	2
157	Electrochemical Evaluation of Fluorinated MnO ₂ for Supercapacitor Application. <i>MATEC Web of Conferences</i> , 2018 , 150, 02006	0.3	
156	Studies on spinel cobaltites, MCo ₂ O ₄ (M = Mn, Zn, Fe, Ni and Co) and their functional properties. <i>Ceramics International</i> , 2018 , 44, 4630-4639	5.1	36
155	A HIGH RETURN LOSS OF MICROWAVE BANDPASS FILTER USING SUPERCONDUCTING ELECTROSPUN YBCO NANOSTRUCTURES. <i>Progress in Electromagnetics Research C</i> , 2018 , 81, 63-75	0.9	3
154	Electrospun 3D composite nano-flowers for high performance triple-cation perovskite solar cells. <i>Electrochimica Acta</i> , 2018 , 289, 459-473	6.7	17
153	Ionic conduction and dielectric properties of yttrium doped LiZr ₂ (PO ₄) ₃ obtained by a Pechini-type polymerizable complex route. <i>Ceramics International</i> , 2018 , 44, 15509-15516	5.1	10
152	LATP ionic conductor and in-situ graphene hybrid-layer coating on LiFePO ₄ cathode material at different temperatures. <i>Journal of Alloys and Compounds</i> , 2018 , 765, 800-811	5.7	21

151	Advances in hole transport materials engineering for stable and efficient perovskite solar cells. <i>Nano Energy</i> , 2017 , 34, 271-305	17.1	278
150	One-Dimensional Assembly of Conductive and Capacitive Metal Oxide Electrodes for High-Performance Asymmetric Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 10730-10742	8.5	69
149	Continuous nanobelts of nickel oxide/cobalt oxide hybrid with improved capacitive charge storage properties. <i>Materials and Design</i> , 2017 , 122, 376-384	8.1	64
148	Critical influence of reduced graphene oxide mediated binding of M (M = Mg, Mn) with Co ions, chemical stability and charge storability enhancements of spinal-type hierarchical MCo_2O_4 nanostructures. <i>Electrochimica Acta</i> , 2017 , 243, 119-128	6.7	47
147	Charge storage capability of tunnel MnO_2 and alkaline layered $Na-MnO_2$ as anode material for aqueous asymmetry supercapacitor. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 799, 538-546	4.1	18
146	Effect of processing parameters on the charge storage properties of $MgCo_2O_4$ electrodes. <i>Ceramics International</i> , 2017 , 43, 12270-12279	5.1	38
145	Synthesis and electrochemical evaluation of the PANI/ MnO_2 electrode for high performing asymmetric supercapacitors. <i>New Journal of Chemistry</i> , 2017 , 41, 6574-6584	3.6	40
144	Investigations on the influence of Sm^{3+} ion on the nano TiO_2 matrix as the anode material for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2017 , 710, 205-215	5.7	11
143	Improving the symmetry of asymmetric supercapacitors using battery-type positive electrodes and activated carbon negative electrodes by mass and charge balance. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 805, 126-132	4.1	39
142	Pseudocapacitive Charge Storage in Single-Step-Synthesized $CoO/MnO_2/MnCo_2O_4$ Hybrid Nanowires in Aqueous Alkaline Electrolytes. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 21171-21183	3.8	58
141	A glassy carbon electrode modified with SnO_2 nanofibers, polyaniline and hemoglobin for improved amperometric sensing of hydrogen peroxide. <i>Mikrochimica Acta</i> , 2017 , 184, 4443-4450	5.8	30
140	Interfaces in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1700623	21.8	225
139	Large scale synthesis of binary composite nanowires in the $Mn_2O_3-SnO_2$ system with improved charge storage capabilities. <i>Chemical Engineering Journal</i> , 2017 , 327, 962-972	14.7	41
138	Synthesis and Lithium Storage Properties of Zn, Co and Mg doped SnO_2 Nano Materials. <i>Electrochimica Acta</i> , 2017 , 247, 358-370	6.7	28
137	Electrospun Ceramic Nanofiber Mats Today: Synthesis, Properties, and Applications. <i>Materials</i> , 2017 , 10,	3.5	86
136	Synthesis and characterization of $MnCo_2O_4$ cuboidal microcrystals as a high performance pseudocapacitor electrode. <i>Journal of Alloys and Compounds</i> , 2016 , 656, 707-713	5.7	50
135	High surface area activated carbon from rice husk as a high performance supercapacitor electrode. <i>Electrochimica Acta</i> , 2016 , 192, 110-119	6.7	277
134	Hierarchical Mo_9Se_{11} nanoneedles on nanosheet with enhanced electrochemical properties as a battery-type electrode for asymmetric supercapacitors. <i>Journal of Alloys and Compounds</i> , 2016 , 673, 390-398	5.7	15

133	A heat capacity model of T dependence for quantum dots. <i>Physical Chemistry Chemical Physics</i> , 2016 , 19, 408-418	3.6	3
132	Humidity versus photo-stability of metal halide perovskite films in a polymer matrix. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 21629-39	3.6	62
131	Research Update: Behind the high efficiency of hybrid perovskite solar cells. <i>APL Materials</i> , 2016 , 4, 091505	3.7	36
130	SnO ₂ /TiO ₂ hybrid nanofibers for efficient dye-sensitized solar cells. <i>Solar Energy</i> , 2016 , 132, 395-404	6.8	37
129	Supercapacitor Electrodes Delivering High Energy and Power Densities. <i>Materials Today: Proceedings</i> , 2016 , 3, S48-S56	1.4	18
128	Modification of capacitive charge storage of TiO ₂ with nickel doping. <i>Journal of Alloys and Compounds</i> , 2016 , 684, 328-334	5.7	16
127	Fabrication of Superconducting YBCO Nanoparticles by Electrospinning. <i>Procedia Engineering</i> , 2016 , 148, 243-248		15
126	Progress, challenges and perspectives in flexible perovskite solar cells. <i>Energy and Environmental Science</i> , 2016 , 9, 3007-3035	35.4	278
125	Role of morphology and crystallinity of nanorod and planar electron transport layers on the performance and long term durability of perovskite solar cells. <i>Journal of Power Sources</i> , 2015 , 283, 61-67	8.9	96
124	Metal oxide semiconducting interfacial layers for photovoltaic and photocatalytic applications. <i>Materials for Renewable and Sustainable Energy</i> , 2015 , 4, 1	4.7	54
123	One pot synthesis of multi-functional tin oxide nanostructures for high efficiency dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2015 , 646, 32-39	5.7	12
122	Vertical TiO ₂ Nanorods as a Medium for Stable and High-Efficiency Perovskite Solar Modules. <i>ACS Nano</i> , 2015 , 9, 8420-9	16.7	158
121	Tin oxide as a photoanode for dye-sensitised solar cells: Current progress and future challenges. <i>Journal of Power Sources</i> , 2015 , 293, 1039-1052	8.9	87
120	Aminopyrene functionalized reduced graphene oxide as a supercapacitor electrode. <i>RSC Advances</i> , 2015 , 5, 38111-38116	3.7	37
119	Solid state perovskite solar modules by vacuum-vapor assisted sequential deposition on Nd:YVO ₄ laser patterned rutile TiO ₂ nanorods. <i>Nanotechnology</i> , 2015 , 26, 494002	3.4	23
118	Effect of biofilm formation on the performance of microbial fuel cell for the treatment of palm oil mill effluent. <i>Bioprocess and Biosystems Engineering</i> , 2015 , 38, 15-24	3.7	74
117	Electrochemical properties of carbon from oil palm kernel shell for high performance supercapacitors. <i>Electrochimica Acta</i> , 2015 , 174, 78-86	6.7	111
116	Improved supercapacitive charge storage in electrospun niobium doped titania nanowires. <i>RSC Advances</i> , 2015 , 5, 50087-50097	3.7	15

115	Predicting larger absorption cross-section in porphyrin dyes using DFT calculations. <i>Journal of Porphyrins and Phthalocyanines</i> , 2015 , 19, 1270-1278	1.8	6
114	High performance asymmetric supercapacitors using electrospun copper oxide nanowires anode. <i>Journal of Alloys and Compounds</i> , 2015 , 633, 22-30	5.7	71
113	Characterization of MgCo ₂ O ₄ as an electrode for high performance supercapacitors. <i>Electrochimica Acta</i> , 2015 , 161, 312-321	6.7	231
112	Mesoporous titania-vertical nanorod films with interfacial engineering for high performance dye-sensitized solar cells. <i>Nanotechnology</i> , 2015 , 26, 105401	3.4	15
111	Doubling of electrochemical parameters via the pre-intercalation of Na ⁺ in layered MnO ₂ nanoflakes compared to MnO ₂ nanorods. <i>RSC Advances</i> , 2015 , 5, 9667-9673	3.7	32
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