Rajan Jose

List of Publications by Year in descending order

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274 papers	14,774 citations	18465 62 h-index	23514 111 g-index
275 all docs	275 docs citations	275 times ranked	17493 citing authors

#	Article	IF	Citations
1	Electrolyte selection for supercapacitive devices: a critical review. Nanoscale Advances, 2019, 1, 3807-3835.	2.2	702
2	Metal Oxides for Dyeâ€Sensitized Solar Cells. Journal of the American Ceramic Society, 2009, 92, 289-301.	1.9	575
3	Grapheneâ€“Polymer Nanofiber Membrane for Ultrafast Photonics. Advanced Functional Materials, 2010, 20, 782-791.	7.8	434
4	High surface area activated carbon from rice husk as a high performance supercapacitor electrode. Electrochimica Acta, 2016, 192, 110-119.	2.6	384
5	A perspective on the production of dye-sensitized solar modules. Energy and Environmental Science, 2014, 7, 3952-3981.	15.6	381
6	Advances in hole transport materials engineering for stable and efficient perovskite solar cells. Nano Energy, 2017, 34, 271-305.	8.2	362
7	Nanostructured ceramics by electrospinning. Journal of Applied Physics, 2007, 102, .	1.1	349
8	Progress, challenges and perspectives in flexible perovskite solar cells. Energy and Environmental Science, 2016, 9, 3007-3035.	15.6	345
9	Nanostructured Nb₂O₅ Polymorphs by Electrospinning for Rechargeable Lithium Batteries. Journal of Physical Chemistry C, 2010, 114, 664-671.	1.5	320
10	Characterization of MgCo2O4 as an electrode for high performance supercapacitors. Electrochimica Acta, 2015, 161, 312-321.	2.6	292
11	Controlled electron injection and transport at materials interfaces in dye sensitized solar cells. Materials Science and Engineering Reports, 2009, 63, 81-99.	14.8	285
12	Interfaces in Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1700623.	10.2	276
13	Spray deposition of electrospun TiO₂nanorods for dye-sensitized solar cell. Nanotechnology, 2007, 18, 365709.	1.3	216
14	Science and engineering of electrospun nanofibers for advances in clean energy, water filtration, and regenerative medicine. Journal of Materials Science, 2010, 45, 6283-6312.	1.7	213
15	Nb₂O₅ Photoelectrodes for Dye-Sensitized Solar Cells: Choice of the Polymorph. Journal of Physical Chemistry C, 2010, 114, 21795-21800.	1.5	213
16	Quantum Dot anti-CD Conjugates:â€‰ Are They Potential Photosensitizers or Potentiators of Classical Photosensitizing Agents in Photodynamic Therapy of Cancer?. Nano Letters, 2004, 4, 1567-1573.	4.5	190
17	Structural and Optical Properties of Electrospun TiO₂ Nanofibers. Chemistry of Materials, 2007, 19, 6536-6542.	3.2	176
18	Superior supercapacitive performance in electrospun copper oxide nanowire electrodes. Journal of Materials Chemistry A, 2014, 2, 6578-6588.	5.2	175

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19	Vertical TiO₂ Nanorods as a Medium for Stable and High-Efficiency Perovskite Solar Modules. ACS Nano, 2015, 9, 8420-8429.	7.3	174
20	Structureâ^'Property Correlation of CdSe Clusters Using Experimental Results and First-Principles DFT Calculations. Journal of the American Chemical Society, 2006, 128, 629-636.	6.6	162
21	Improved Electron Diffusion Coefficient in Electrospun TiO₂ Nanowires. Journal of Physical Chemistry C, 2009, 113, 21538-21542.	1.5	155
22	Electrochemical properties of carbon from oil palm kernel shell for high performance supercapacitors. Electrochimica Acta, 2015, 174, 78-86.	2.6	145
23	High performance supercapacitor electrodes from electrospun nickel oxide nanowires. Journal of Alloys and Compounds, 2014, 610, 143-150.	2.8	137
24	High performance MnO2 nanoflower electrode and the relationship between solvated ion size and specific capacitance in highly conductive electrolytes. Materials Research Bulletin, 2014, 57, 221-230.	2.7	135
25	Preparation and electrochemical studies of electrospun TiO2 nanofibers and molten salt method nanoparticles. Electrochimica Acta, 2010, 55, 3109-3117.	2.6	134
26	High performance dye-sensitized solar cells with record open circuit voltage using tin oxide nanoflowers developed by electrospinning. Energy and Environmental Science, 2012, 5, 5401-5407.	15.6	133
27	Electrospun Ceramic Nanofiber Mats Today: Synthesis, Properties, and Applications. Materials, 2017, 10, 1238.	1.3	131
28	A simple recipe for an efficient TiO2 nanofiber-based dye-sensitized solar cell. Journal of Colloid and Interface Science, 2011, 353, 39-45.	5.0	128
29	Electrospun polyaniline nanofibers web electrodes for supercapacitors. Journal of Applied Polymer Science, 2013, 129, 1660-1668.	1.3	128
30	Magnetic Iron Oxide Nanoparticles: Chemical Synthesis and Applications Review. Current Nanoscience, 2013, 9, 561-575.	0.7	122
31	Controlled synthesis and application of ZnO nanoparticles, nanorods and nanospheres in dye-sensitized solar cells. Nanotechnology, 2009, 20, 045604.	1.3	119
32	Materials 4.0: Materials big data enabled materials discovery. Applied Materials Today, 2018, 10, 127-132.	2.3	118
33	Advances in stability of perovskite solar cells. Organic Electronics, 2020, 78, 105590.	1.4	117
34	High energy and power density asymmetric supercapacitors using electrospun cobalt oxide nanowire anode. Journal of Power Sources, 2014, 270, 526-535.	4.0	113
35	Electron transport in electrospun TiO2 nanofiber dye-sensitized solar cells. Applied Physics Letters, 2009, 95, .	1.5	108
36	Role of morphology and crystallinity of nanorod and planar electron transport layers on the performance and long term durability of perovskite solar cells. Journal of Power Sources, 2015, 283, 61-67.	4.0	106

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37	Critical insight: challenges and requirements of fibre electrodes for wearable electrochemical energy storage. Energy and Environmental Science, 2019, 12, 2148-2160.	15.6	104
38	Tin oxide as a photoanode for dye-sensitised solar cells: Current progress and future challenges. Journal of Power Sources, 2015, 293, 1039-1052.	4.0	101
39	Effect of biofilm formation on the performance of microbial fuel cell for the treatment of palm oil mill effluent. Bioprocess and Biosystems Engineering, 2015, 38, 15-24.	1.7	99
40	Tandem perovskite solar cells. Renewable and Sustainable Energy Reviews, 2018, 84, 89-110.	8.2	93
41	One-Dimensional Assembly of Conductive and Capacitive Metal Oxide Electrodes for High-Performance Asymmetric Supercapacitors. ACS Applied Materials & Interfaces, 2017, 9, 10730-10742.	4.0	88
42	Studies on the lithium ion diffusion coefficients of electrospun Nb2O5 nanostructures using galvanostatic intermittent titration and electrochemical impedance spectroscopy. Electrochimica Acta, 2014, 128, 198-202.	2.6	86
43	Thermal and optical properties of TeO2â€“BaOâ€“SrOâ€“Nb2O5 based glasses: New broadband Raman gain media. Journal of Non-Crystalline Solids, 2006, 352, 5564-5571.	1.5	85
44	Structural and Electrical Properties of Nbâ€Đoped Anatase TiO₂ Nanowires by Electrospinning. Journal of the American Ceramic Society, 2010, 93, 4096-4102.	1.9	85
45	High performance asymmetric supercapacitors using electrospun copper oxide nanowires anode. Journal of Alloys and Compounds, 2015, 633, 22-30.	2.8	83
46	Conversion of Oil Palm Kernel Shell Biomass to Activated Carbon for Supercapacitor Electrode Application. Waste and Biomass Valorization, 2019, 10, 1731-1740.	1.8	83
47	Metal oxide semiconducting interfacial layers for photovoltaic and photocatalytic applications. Materials for Renewable and Sustainable Energy, 2015, 4, 1.	1.5	82
48	Phosphate Polyanion Materials as High-Voltage Lithium-Ion Battery Cathode: A Review. Energy & Fuels, 2021, 35, 10428-10450.	2.5	80
49	Tungsten doped titanium dioxide nanowires for high efficiency dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2014, 16, 7448-7454.	1.3	78
50	Electrochemical performance studies of MnO2 nanoflowers recovered from spent battery. Materials Research Bulletin, 2014, 60, 5-9.	2.7	78
51	Uncoated, Broad Fluorescent, and Size-Homogeneous CdSe Quantum Dots for Bioanalyses. Analytical Chemistry, 2006, 78, 321-330.	3.2	76
52	Characterization and sintering of BaZrO3 nanoparticles synthesized through a single-step combustion process. Journal of Alloys and Compounds, 2008, 458, 528-531.	2.8	76
53	Electrospun TiO2 nanorods assembly sensitized by CdS quantum dots: a low-cost photovoltaic material. Energy and Environmental Science, 2010, 3, 2010.	15.6	75
54	Humidity versus photo-stability of metal halide perovskite films in a polymer matrix. Physical Chemistry Chemical Physics, 2016, 18, 21629-21639.	1.3	75

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55	Multiporous nanofibers of SnO₂by electrospinning for high efficiency dye-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 17427-17434.	5.2	74
56	Fiberâ€Shaped Electronic Devices. Advanced Energy Materials, 2021, 11, 2101443.	10.2	74
57	Relationship between the molecular orbital structure of the dyes and photocurrent density in the dye-sensitized solar cells. Applied Physics Letters, 2008, 93, .	1.5	72
58	Synthesis and characterization of MnCo 2 O 4 cuboidal microcrystals as a high performance psuedocapacitor electrode. Journal of Alloys and Compounds, 2016, 656, 707-713.	2.8	72
59	Continuous nanobelts of nickel oxideâ€“cobalt oxide hybrid with improved capacitive charge storage properties. Materials and Design, 2017, 122, 376-384.	3.3	72
60	Conversion efficiency versus sensitizer for electrospun TiO₂nanorod electrodes in dye-sensitized solar cells. Nanotechnology, 2008, 19, 424004.	1.3	71
61	Intense ultraviolet emission from Tb3+ and Yb3+ codoped glass ceramic containing CaF2 nanocrystals. Applied Physics Letters, 2007, 90, 131116.	1.5	70
62	Pseudocapacitive Charge Storage in Single-Step-Synthesized CoOâ€“MnO₂â€“MnCo₂O₄ Hybrid Nanowires in Aqueous Alkaline Electrolytes. Journal of Physical Chemistry C, 2017, 121, 21171-21183.	1.5	69
63	Enhancing the stability of polymer solar cells by improving the conductivity of the nanostructured MoO3 hole-transport layer. Physical Chemistry Chemical Physics, 2013, 15, 6831.	1.3	66
64	Hydrothermal syntheses of tungsten doped TiO2 and TiO2/WO3 composite using metal oxide precursors for charge storage applications. Journal of Alloys and Compounds, 2018, 740, 703-710.	2.8	64
65	Improving the symmetry of asymmetric supercapacitors using battery-type positive electrodes and activated carbon negative electrodes by mass and charge balance. Journal of Electroanalytical Chemistry, 2017, 805, 126-132.	1.9	61
66	Synergistic combination of electronic and electrical properties of SnO2 and TiO2 in a single SnO2-TiO2 composite nanofiber for dye-sensitized solar cells. Electrochimica Acta, 2018, 263, 524-532.	2.6	61
67	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 2 O 4 nanostructures. Electrochimica Acta, 2017, 243, 119-128.	2.6	60
68	Highly porous TiO2 nanofibers by humid-electrospinning with enhanced photocatalytic properties. Journal of Alloys and Compounds, 2019, 790, 257-265.	2.8	59
69	Fabrication of quantum dotâ€“lectin conjugates as novel fluorescent probes for microscopic and flow cytometric identification of leukemia cells from normal lymphocytes. Chemical Communications, 2005, , 1980-1982.	2.2	57
70	Electrochemical properties of bare and Ta-substituted Nb2O5 nanostructures. Electrochimica Acta, 2011, 56, 1518-1528.	2.6	57
71	Studies on spinel cobaltites, MCo2O4 (M = Mn, Zn, Fe, Ni and Co) and their functional properties. Ceramics International, 2018, 44, 4630-4639.	2.3	57
72	Synthesis and electrochemical evaluation of the PANI/Î´-MnO₂ electrode for high performing asymmetric supercapacitors. New Journal of Chemistry, 2017, 41, 6574-6584.	1.4	56

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73	Facile fabrication of thin metal oxide films on porous carbon for high density charge storage. Journal of Colloid and Interface Science, 2020, 562, 567-577.	5.0	55
74	Fabrication and characterization of dye-sensitized solar cells from rutile nanofibers and nanorods. Energy, 2011, 36, 627-632.	4.5	54
75	Environment-Modulated Crystallization of Cu₂O and CuO Nanowires by Electrospinning and Their Charge Storage Properties. Langmuir, 2018, 34, 1873-1882.	1.6	54
76	Synthesis and characterization of nanocrystalline strontium titanate through a modified combustion method and its sintering and dielectric properties. Journal of Alloys and Compounds, 2009, 486, 711-715.	2.8	53
77	Enhancement of the photoluminescence of CdSe quantum dots during long-term UV-irradiation: privilege or fault in life science research?. Journal of Photochemistry and Photobiology B: Biology, 2004, 75, 99-105.	1.7	52
78	Void Space Control in Porous Carbon for High-Density Supercapacitive Charge Storage. Energy & Fuels, 2020, 34, 5072-5083.	2.5	52
79	Energy storage in metal cobaltite electrodes: Opportunities & challenges in magnesium cobalt oxide. Renewable and Sustainable Energy Reviews, 2021, 141, 110798.	8.2	51
80	Electrospinning research and products: The road and the way forward. Applied Physics Reviews, 2022, 9, .	5.5	50
81	Aminopyrene functionalized reduced graphene oxide as a supercapacitor electrode. RSC Advances, 2015, 5, 38111-38116.	1.7	49
82	Effect of processing parameters on the charge storage properties of MgCo2O4 electrodes. Ceramics International, 2017, 43, 12270-12279.	2.3	49
83	Ramification of zinc oxide doped hydroxyapatite biocomposites for the mineralization of osteoblasts. Materials Science and Engineering C, 2019, 96, 337-346.	3.8	49
84	White-light-emitting CdSe quantum dots synthesized at room temperature. Applied Physics Letters, 2006, 89, 013115.	1.5	48
85	Stimulated Raman scattering in tellurite glasses as a potential system for slow light generation. Journal of Applied Physics, 2007, 101, 093109.	1.1	48
86	Research Update: Behind the high efficiency of hybrid perovskite solar cells. APL Materials, 2016, 4, .	2.2	47
87	Large scale synthesis of binary composite nanowires in the Mn 2 O 3 -SnO 2 system with improved charge storage capabilities. Chemical Engineering Journal, 2017, 327, 962-972.	6.6	46
88	Random nanowires of nickel doped TiO₂with high surface area and electron mobility for high efficiency dye-sensitized solar cells. Dalton Transactions, 2013, 42, 1024-1032.	1.6	45
89	Layered sodium titanate nanostructures as a new electrode for high energy density supercapacitors. Electrochimica Acta, 2013, 113, 141-148.	2.6	44
90	SnO2â€“TiO2 hybrid nanofibers for efficient dye-sensitized solar cells. Solar Energy, 2016, 132, 395-404.	2.9	44

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91	Charge Transport through Electrospun SnO₂ Nanoflowers and Nanofibers: Role of Surface Trap Density on Electron Transport Dynamics. Journal of Physical Chemistry C, 2012, 116, 22112-22120.	1.5	43
92	Tin oxide as an emerging electron transport medium in perovskite solar cells. Solar Energy Materials and Solar Cells, 2018, 179, 102-117.	3.0	43
93	Perovskite Solar Fibers: Current Status, Issues and Challenges. Advanced Fiber Materials, 2019, 1, 101-125.	7.9	42
94	Application of polymerized multiporous nanofiber of SnO2 for designing a bienzyme glucose biosensor based on HRP/GOx. International Journal of Biological Macromolecules, 2019, 123, 1028-1034.	3.6	42
95	Pseudocapacitive Charge Storage in Thin Nanobelts. Advanced Fiber Materials, 2019, 1, 205-213.	7.9	41
96	Flexible Solar Yarns with 15.7% Power Conversion Efficiency, Based on Electrospun Perovskite Composite Nanofibers. Solar Rrl, 2020, 4, 2000269.	3.1	41
97	Characterization, sintering and dielectric properties of nanocrystalline barium titanate synthesized through a modified combustion process. Materials Characterization, 2009, 60, 322-326.	1.9	40
98	Higher nonlinear indices, Raman gain coefficients, and bandwidths in the TeO2â€“ZnOâ€“Nb2O5â€“MoO3 quaternary glass system. Applied Physics Letters, 2007, 90, 211104.	1.5	39
99	Raman scattering characteristics of the TBSN-based tellurite glass system as a new Raman gain medium. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 1517.	0.9	39
100	Doubling of electrochemical parameters via the pre-intercalation of Na⁺ in layered MnO₂ nanoflakes compared to Î±-MnO₂ nanorods. RSC Advances, 2015, 5, 9667-9673.	1.7	39
101	Artificial Intelligence-Driven Circular Economy as a Key Enabler for Sustainable Energy Management. Materials Circular Economy, 2020, 2, 1.	1.6	39
102	Composite Polymer Electrolytes Based on PVA/PAN for All-Solid-State Lithium Metal Batteries Operated at Room Temperature. ACS Applied Energy Materials, 2020, 3, 11024-11035.	2.5	39
103	In situ encapsulation of tin oxide and cobalt oxide composite in porous carbon for high-performance energy storage applications. Journal of Electroanalytical Chemistry, 2018, 817, 217-225.	1.9	38
104	LATP ionic conductor and in-situ graphene hybrid-layer coating on LiFePO4 cathode material at different temperatures. Journal of Alloys and Compounds, 2018, 765, 800-811.	2.8	38
105	A glassy carbon electrode modified with SnO2 nanofibers, polyaniline and hemoglobin for improved amperometric sensing of hydrogen peroxide. Mikrochimica Acta, 2017, 184, 4443-4450.	2.5	37
106	Synthesis and Lithium Storage Properties of Zn, Co and Mg doped SnO2 Nano Materials. Electrochimica Acta, 2017, 247, 358-370.	2.6	37
107	Physical reduction of graphene oxide for supercapacitive charge storage. Journal of Alloys and Compounds, 2020, 822, 153636.	2.8	36
108	Characteristics of ZnOâ€“SnO₂ Composite Nanofibers as a Photoanode in Dye-Sensitized Solar Cells. Industrial & Engineering Chemistry Research, 2019, 58, 643-653.	1.8	35

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109	Synthesis of strontium zirconate as nanocrystals through a single step combustion process. Materials Letters, 2007, 61, 1592-1595.	1.3	34
110	Crystallization kinetics and spectroscopic investigations on Tb3+ and Yb3+ codoped glass ceramics containing CaF2 nanocrystals. Journal of Applied Physics, 2007, 102, .	1.1	33
111	A Perspective on the Commercial Viability of Perovskite Solar Cells. Solar Rrl, 2021, 5, 2100401.	3.1	33
112	Electrochemical Characteristics of a Polymer/Garnet Trilayer Composite Electrolyte for Solid-State Lithium-Metal Batteries. ACS Applied Materials & Interfaces, 2021, 13, 2507-2520.	4.0	33
113	Near band-edge electron diffusion in electrospun Nb-doped anatase TiO2 nanofibers probed by electrochemical impedance spectroscopy. Applied Physics Letters, 2011, 98, .	1.5	32
114	Electrospun ZnO Nanowire Plantations in the Electron Transport Layer for High-Efficiency Inverted Organic Solar Cells. ACS Applied Materials & Interfaces, 2013, 5, 9396-9404.	4.0	32
115	Direct Growth of Triple Cation Metalâ€“Organic Framework on a Metal Substrate for Electrochemical Energy Storage. Industrial & Engineering Chemistry Research, 2019, 58, 665-674.	1.8	32
116	Understanding electrochemical capacitors with in-situ techniques. Renewable and Sustainable Energy Reviews, 2021, 149, 111418.	8.2	32
117	Standardization of photoelectrode area of dye-sensitized solar cells. RSC Advances, 2013, 3, 2683.	1.7	31
118	Large scale synthesis of 3D nanoflowers of SnO 2 /TiO 2 composite via electrospinning with synergistic properties. Materials Letters, 2018, 225, 117-121.	1.3	30
119	Eco-innovation impacts on recycled product performance and competitiveness: Malaysian automotive industry. Sustainable Production and Consumption, 2021, 28, 1677-1686.	5.7	30
120	Ultrasensitive aptasensor using electrospun MXene/polyvinylidene fluoride nanofiber composite for Ochratoxin A detection. Food Chemistry, 2022, 390, 133105.	4.2	29
121	Supercapacitor Electrodes Delivering High Energy and Power Densities. Materials Today: Proceedings, 2016, 3, S48-S56.	0.9	28
122	Simultaneous improvements in power conversion efficiency and operational stability of polymer solar cells by interfacial engineering. Physical Chemistry Chemical Physics, 2013, 15, 19057.	1.3	27
123	Direct pyrolysis and ultrasound assisted preparation of N, S co-doped graphene/Fe3C nanocomposite as an efficient electrocatalyst for oxygen reduction and oxygen evolution reactions. Ultrasonics Sonochemistry, 2020, 66, 105111.	3.8	27
124	Flexible hybrid solid electrolyte incorporating ligament-shaped Li6.25Al0.25La3Zr2O12 filler for all-solid-state lithium-metal batteries. Electrochimica Acta, 2021, 366, 137348.	2.6	27
125	Enhanced performance of a Ni-rich LiNi0.8Co0.1Mn0.1O2 cathode material formed through Taylor flow synthesis and surface modification with Li2MoO4. Chemical Engineering Journal, 2021, 413, 127150.	6.6	27
126	Structural and optoelectronic properties of hybrid halide perovskites for solar cells. Organic Electronics, 2021, 91, 106077.	1.4	27

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127	Design of Ultimate Gain-Flattened O-, E-, and S$+$ C$+$ L Ultrabroadband Fiber Amplifiers Using a New Fiber Raman Gain Medium. Journal of Lightwave Technology, 2007, 25, 2727-2738.	2.7	26
128	Solid state perovskite solar modules by vacuum-vapor assisted sequential deposition on Nd:YVO₄ laser patterned rutile TiO₂ nanorods. Nanotechnology, 2015, 26, 494002.	1.3	26
129	Polymer versus Cation of Gel Polymer Electrolytes in the Charge Storage of Asymmetric Supercapacitors. Industrial & Engineering Chemistry Research, 2019, 58, 654-664.	1.8	26
130	Synthesis and characterization of carbon microspheres from rubber wood by hydrothermal carbonization. Journal of Chemical Technology and Biotechnology, 2019, 94, 1374-1383.	1.6	26
131	Activated carbon with graphitic content from stinky bean seedpod biowaste as supercapacitive electrode material. Ionics, 2020, 26, 4081-4093.	1.2	26
132	Tri-metallic Co-Ni-Cu based metal organic framework nanostructures for the detection of an anticancer drug nilutamide. Sensors and Actuators A: Physical, 2021, 325, 112711.	2.0	26
133	Crystal structure and dielectric properties of a new complex perovskite oxide Ba2LaSbO6. Applied Physics A: Materials Science and Processing, 2004, 79, 2041-2047.	1.1	25
134	Charge storage capability of tunnel MnO 2 and alkaline layered Na-MnO 2 as anode material for aqueous asymmetry supercapacitor. Journal of Electroanalytical Chemistry, 2017, 799, 538-546.	1.9	25
135	Comprehensiveness in the Research on Sustainability. Materials Circular Economy, 2021, 3, 1.	1.6	25
136	Addressing sustainability gaps. Science of the Total Environment, 2022, 806, 151208.	3.9	25
137	Enhanced Raman gain coefficients and bandwidths in P2O5 and WO3 added tellurite glasses for Raman gain media. Applied Physics Letters, 2006, 89, 121122.	1.5	24
138	Electrical Conductivity Characteristic of TiO2 Nanowires From Hydrothermal Method. Journal of Physics: Conference Series, 2014, 495, 012027.	0.3	24
139	Highly efficient photovoltaic energy storage hybrid system based on ultrathin carbon electrodes designed for a portable and flexible power source. Journal of Power Sources, 2019, 422, 196-207.	4.0	24
140	Perovskite solar cell-hybrid devices: thermoelectrically, electrochemically, and piezoelectrically connected power packs. Journal of Materials Chemistry A, 2019, 7, 26661-26692.	5.2	24
141	Transformation of Supercapacitive Charge Storage Behaviour in a Multi elemental Spinel CuMn2O4 Nanofibers with Alkaline and Neutral Electrolytes. Advanced Fiber Materials, 2021, 3, 265-274.	7.9	24
142	Plasmonic hot-electron assisted phase transformation in 2D-MoS₂ for the hydrogen evolution reaction: current status and future prospects. Journal of Materials Chemistry A, 2022, 10, 8626-8655.	5.2	24
143	Structural and dielectric properties of Ba2YbTaO6, Ba2YSbO6 and Ba2EuZrO5.5. Physica C: Superconductivity and Its Applications, 2006, 435, 53-58.	0.6	22
144	On the missing links in quantum dot solar cells: a DFT study on fluorophore oxidation and reduction processes in sensitized solar cells. Physical Chemistry Chemical Physics, 2013, 15, 16275.	1.3	22

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145	A new combustion process for nanosized YBa2ZrO5.5 powders. Scripta Materialia, 1999, 11, 623-629.	0.5	21
146	Continuous tubular nanofibers of vanadium pentoxide by electrospinning for energy storage devices. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	21
147	Decanter cake as a feedstock for biodiesel production: A first report. Energy Conversion and Management, 2013, 76, 527-532.	4.4	21
148	Tuning Palladium Nickel Phosphide toward Efficient Oxygen Evolution Performance. ACS Applied Energy Materials, 2020, 3, 879-888.	2.5	21
149	Surface-Modified Quaternary Layered Ni-Rich Cathode Materials by Li₂ZrO₃ for Improved Electrochemical Performance for High-Power Li-Ion Batteries. ACS Applied Energy Materials, 2022, 5, 4796-4807.	2.5	21
150	Charge transport in zirconium doped anatase nanowires dye-sensitized solar cells: Trade-off between lattice strain and photovoltaic parameters. Applied Physics Letters, 2014, 105, 153901.	1.5	20
151	Mesoporous titaniaâ€“vertical nanorod films with interfacial engineering for high performance dye-sensitized solar cells. Nanotechnology, 2015, 26, 105401.	1.3	20
152	Modification of capacitive charge storage of TiO2 with nickel doping. Journal of Alloys and Compounds, 2016, 684, 328-334.	2.8	20
153	Electrospun 3D composite nano-flowers for high performance triple-cation perovskite solar cells. Electrochimica Acta, 2018, 289, 459-473.	2.6	20
154	Advances in stable and flexible perovskite solar cells. Current Applied Physics, 2020, 20, 720-737.	1.1	20
155	Role of Free Cadmium and Selenium Ions in the Potential Mechanism for the Enhancement of Photoluminescence of CdSe Quantum Dots Under Ultraviolet Irradiation. Journal of Nanoscience and Nanotechnology, 2005, 5, 887-894.	0.9	19
156	Thin metal film on porous carbon as a medium for electrochemical energy storage. Journal of Power Sources, 2021, 489, 229522.	4.0	19
157	Synthesis of CdTe quantum dots using a heterogeneous process at low temperature and their optical and structural properties. Applied Physics A: Materials Science and Processing, 2004, 79, 1833-1838.	1.1	18
158	Tailoring of Raman gain bandwidth of tellurite glasses for designing gain-flattened fiber Raman amplifiers. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 373.	0.9	18
159	Improved supercapacitive charge storage in electrospun niobium doped titania nanowires. RSC Advances, 2015, 5, 50087-50097.	1.7	18
160	Enhanced direct electron transfer of redox protein based on multiporous SnO2 nanofiber-carbon nanotube nanocomposite and its application in biosensing. International Journal of Biological Macromolecules, 2018, 114, 1071-1076.	3.6	18
161	A modified trilayer membrane for suppressing Li dendrite growth in all-solid-state lithium-metal batteries. Chemical Engineering Journal, 2021, 426, 131850.	6.6	18
162	Iron oxide magnetic nanoparticles: A short review. , 2012, , .		17

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163	Hierarchical Mo9Se11 nanoneedles on nanosheet with enhanced electrochemical properties as a battery-type electrode for asymmetric supercapacitors. Journal of Alloys and Compounds, 2016, 673, 390-398.	2.8	17
164	Ionic conduction and dielectric properties of yttrium doped LiZr2(PO4)3 obtained by a Pechini-type polymerizable complex route. Ceramics International, 2018, 44, 15509-15516.	2.3	17
165	Poly(vinyl alcohol)/Melamine Composite Containing LATP Nanocrystals as a High-Performing Nanofibrous Membrane Separator for High-Power, High-Voltage Lithium-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 8487-8499.	2.5	17
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