

Rajaram S Mane

List of Publications by Year in descending order

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324
papers

11,517
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36691

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#	ARTICLE	IF	CITATIONS
1	Room-temperature solution-processed sharp-edged nanoshapes of molybdenum oxide for supercapacitor and electrocatalysis applications. <i>Chemical Engineering Journal</i> , 2022, 433, 133627.	6.6	13
2	Self-assembled Fe_2O_3 -GO nanocomposites: Studies on physical, magnetic and ammonia sensing properties. <i>Materials Chemistry and Physics</i> , 2022, 278, 125617.	2.0	13
3	Inherent characteristics of ultra-photosensitive Al/Cu CeO_2 /p-Si metal oxide semiconductor diodes. <i>Journal of Materials Chemistry C</i> , 2022, 10, 1445-1457.	2.7	7
4	Ammonia gas sensing and magnetic permeability of enhanced surface area and high porosity lanthanum substituted Co Zn nano ferrites. <i>Ceramics International</i> , 2022, 48, 15043-15055.	2.3	21
5	Grain and grain boundaries influenced magnetic and dielectric properties of lanthanum-doped copper cadmium ferrites. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 7636-7647.	1.1	7
6	Human urine-derived naturally heteroatom doped highly porous carbonaceous material for gas sensing and supercapacitor applications. <i>Ceramics International</i> , 2022, 48, 28942-28950.	2.3	4
7	Assessment of antibacterial and anti-biofilm effects of zinc ferrite nanoparticles against <i>Klebsiella pneumoniae</i> . <i>Folia Microbiologica</i> , 2022, 67, 747-755.	1.1	5
8	Effect of Pd-Sensitization on Poisonous Chlorine Gas Detection Ability of TiO $_2$: Green Synthesis and Low-Temperature Operation. <i>Sensors</i> , 2022, 22, 4200.	2.1	3
9	Self-promoted Nickel-chalcogenide Nanostructures: A Novel Electrochemical Supercapacitor Device-design Strategy. <i>Materials Research Bulletin</i> , 2022, 156, 111975.	2.7	8
10	Bismuth oxide-doped graphene-oxide nanocomposite electrode for energy storage application. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 651, 129690.	2.3	16
11	Solution-method processed Bi-type nanoelectrode materials for supercapacitor applications: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110084.	8.2	30
12	Energy storage potential of sprayed MoO_3 thin films. <i>New Journal of Chemistry</i> , 2021, 45, 582-589.	1.4	14
13	Tungsten oxides: green and sustainable heterogeneous nanocatalysts for the synthesis of bioactive heterocyclic compounds. <i>Dalton Transactions</i> , 2021, 50, 2032-2041.	1.6	4
14	Recasting Ni-foam into NiF $_2$ nanorod arrays via a hydrothermal process for hydrogen evolution reaction application. <i>Dalton Transactions</i> , 2021, 50, 6500-6505.	1.6	14
15	Ultra-sensitive behaviour of ruthenium-doped nickel ferrite thin film humidity sensor. <i>Journal of Experimental Nanoscience</i> , 2021, 16, 43-50.	1.3	10
16	Hopping Electrochemical Supercapacitor Performance of Ultrathin BiOCl Petals Grown by a Room-Temperature Soft-Chemical Process. <i>Energy & Fuels</i> , 2021, 35, 6892-6897.	2.5	12
17	Coconut-Water-Mediated Carbonaceous Electrode: A Promising Eco-Friendly Material for Bifunctional Water Splitting Application. <i>ACS Omega</i> , 2021, 6, 12623-12630.	1.6	7
18	Porous metal-graphene oxide nanocomposite sensors with high ammonia detectability. <i>Journal of Colloid and Interface Science</i> , 2021, 589, 401-410.	5.0	34

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19	Structure-sensitive magnetic properties of nanocrystalline Co ²⁺ -substituted Ni ²⁺ -Zn ferrite aluminates. <i>Ceramics International</i> , 2021, 47, 26492-26500.	2.3	15
20	âœMnâœ-Incorporated Coconut Water Derived Carbon for Supercapacitor Application. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 091003.	0.9	2
21	Natural coconut liquid derived nanosheets structured carbonaceous material for high-performance supercapacitors. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 626, 127012.	2.3	7
22	Ultraviolet induced random mutagenesis in <i>Bacillus amyloliquefaciens</i> (MF 510169) for improving biodiesel production. <i>Fuel</i> , 2021, 304, 121380.	3.4	11
23	Hydrangea-type bismuth molybdate as a room-temperature smoke and humidity sensor. <i>Sensors and Actuators B: Chemical</i> , 2021, 348, 130643.	4.0	11
24	Role of composition and grain size in controlling the structure sensitive magnetic properties of Sm ³⁺ -substituted nanocrystalline Co-Zn ferrites. <i>Journal of Rare Earths</i> , 2020, 38, 1069-1075.	2.5	37
25	Superparamagnetic cobalt-substituted copper zinc ferrite: synthesis, morphological, magnetic and dielectric properties investigation. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 93, 633-642.	1.1	17
26	Utilization of pomegranate waste-peel as a novel substrate for biodiesel production by <i>Bacillus cereus</i> (MF908505). <i>Sustainable Energy and Fuels</i> , 2020, 4, 1199-1207.	2.5	9
27	Tailoring ammonia gas sensing performance of La ³⁺ -doped copper cadmium ferrite nanostructures. <i>Solid State Sciences</i> , 2020, 100, 106089.	1.5	28
28	Pristine and palladium-doped perovskite bismuth ferrites and their nitrogen dioxide gas sensor studies. <i>Journal of King Saud University - Science</i> , 2020, 32, 3125-3130.	1.6	18
29	Electrochemically grown MnO ₂ nanowires for supercapacitor and electrocatalysis applications. <i>New Journal of Chemistry</i> , 2020, 44, 17864-17870.	1.4	33
30	In-vitro antibacterial and anti-biofilm efficiencies of chitosan-encapsulated zinc ferrite nanoparticles. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	19
31	Ferrites in energy. , 2020, , 173-187.		2
32	Effect of Vd-doping on dielectric, magnetic and gas sensing properties of nickel ferrite nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 16728-16736.	1.1	11
33	Mesoporous Carbon of Carbonized Human Urine Waste: A Valuable Heterogeneous Catalyst for Chromene and Xanthene Derivative Synthesis. <i>Catalysts</i> , 2020, 10, 1369.	1.6	10
34	Antimycobacterial, Antioxidant and Cytotoxicity Activities of Mesoporous Nickel Oxide Nanoparticles for Healthcare. <i>Coatings</i> , 2020, 10, 1242.	1.2	4
35	Room-temperature synthesis and CO ₂ -gas sensitivity of bismuth oxide nanosensors. <i>RSC Advances</i> , 2020, 10, 17217-17227.	1.7	26
36	Bismuth-Ferrite-Based Electrochemical Supercapacitors. <i>SpringerBriefs in Materials</i> , 2020, , .	0.1	7

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37	Electrodeposited spruce leaf-like structured copper bismuth oxide electrode for supercapacitor application. <i>Microelectronic Engineering</i> , 2020, 229, 111359.	1.1	16
38	Self-grown one-dimensional nickel sulfo-selenide nanostructured electrocatalysts for water splitting reactions. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 15904-15914.	3.8	25
39	NiF ₂ Nanorod Arrays for Supercapattery Applications. <i>ACS Omega</i> , 2020, 5, 9768-9774.	1.6	19
40	Ferrites for Electrochemical Supercapacitors. , 2020, , 83-122.		7
41	Structural modifications in Co-Zn nanoferrites by Gd substitution triggering to dielectric and gas sensing applications. <i>Journal of Alloys and Compounds</i> , 2020, 844, 156178.	2.8	30
42	Facile synthesis of Bi ₂ O ₃ @MnO ₂ nanocomposite material: A promising electrode for high performance supercapacitors. <i>Solid State Sciences</i> , 2020, 102, 106158.	1.5	29
43	Facile one-step hydrothermal synthesis and room-temperature NO ₂ sensing application of Fe ₂ O ₃ sensor. <i>Materials Chemistry and Physics</i> , 2020, 246, 122799.	2.0	21
44	The role of La ³⁺ substitution in modification of the magnetic and dielectric properties of the nanocrystalline Co-Zn ferrites. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 502, 166490.	1.0	45
45	A reliable chemiresistive sensor of nickel-doped tin oxide (Ni-SnO ₂) for sensing carbon dioxide gas and humidity. <i>RSC Advances</i> , 2020, 10, 3796-3804.	1.7	30
46	Continuous hydrothermal flow-inspired synthesis and ultra-fast ammonia and humidity room-temperature sensor activities of WO ₃ nanobricks. <i>Materials Research Express</i> , 2020, 7, 015076.	0.8	20
47	Phase controlled synthesis of bifunctional TiO ₂ nanocrystallites via d-mannitol for dye-sensitized solar cells and heterogeneous catalysis. <i>RSC Advances</i> , 2020, 10, 14826-14836.	1.7	8
48	Enhanced humidity sensing properties of Fe-doped CeO ₂ nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 8815-8824.	1.1	4
49	Room-temperature chemical synthesis of dandelion-type nickel chloride (NiCl ₂ @NiF) supercapattery nanostructured materials. <i>Journal of Colloid and Interface Science</i> , 2020, 578, 547-554.	5.0	13
50	Electrochemical Supercapacitors: History, Types, Designing Processes, Operation Mechanisms, and Advantages and Disadvantages. <i>SpringerBriefs in Materials</i> , 2020, , 11-36.	0.1	6
51	Electrochemical Supercapacitors of Bismuth Ferrites. <i>SpringerBriefs in Materials</i> , 2020, , 69-84. Room temperature LPG sensing properties of tin substituted copper ferrite $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo}$	0.1	2
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55	Role of Ruthenium in the Dielectric, Magnetic Properties of Nickel Ferrite (Ru ²⁺ NiFe ₂ O ₄) Nanoparticles and Their Application in Hydrogen Sensors. ACS Omega, 2019, 4, 12919-12926.	1.6	26
56	Synthesis of Bi ₂ O ₃ -MnO ₂ Nanocomposite Electrode for Wide-Potential Window High Performance Supercapacitor. Energies, 2019, 12, 3320.	1.6	42
57	Microwave-assisted hierarchical bismuth oxide worm-like nanostructured films as room-temperature hydrogen gas sensors. Journal of Alloys and Compounds, 2019, 802, 244-251.	2.8	32
58	Facile Chemical Synthesis and Potential Supercapattery Energy Storage Application of Hydrangea-type Bi ₂ MoO ₆ . ACS Omega, 2019, 4, 11093-11102.	1.6	57
59	Room temperature LPG sensing properties using spray pyrolysis deposited nano-crystalline CdO thin films. Surfaces and Interfaces, 2019, 17, 100339.	1.5	24
60	Advances in Applications of Polymer Nanocomposites. Advances in Materials Science and Engineering, 2019, 2019, 1-2.	1.0	3
61	Ambient temperature operable Bi-Co ferrite NO ₂ sensors with high sensitivity and selectivity. Materials Research Bulletin, 2019, 115, 150-158.	2.7	11
62	Sol-gel auto-combustion-mediated cobalt ferrite nanoparticles: a potential material for antimicrobial applications. International Nano Letters, 2019, 9, 141-147.	2.3	32
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73	Room Temperature Gas Sensing Properties of Sn-Substituted Nickel Ferrite (NiFe ₂ O ₄) Thin Film Sensors Prepared by Chemical Co-Precipitation Method. <i>Journal of Electronic Materials</i> , 2018, 47, 3403-3408.	1.0	13
74	High current density cation-exchanged SnO ₂ •CdSe/ZnSe and SnO ₂ •CdSe/SnSe quantum-dot photoelectrochemical cells. <i>New Journal of Chemistry</i> , 2018, 42, 9028-9036.	1.4	5
75	Hydrothermally grown $\hat{\pm}$ -MnO ₂ interlocked mesoporous micro-cubes of several nanocrystals as selective and sensitive nitrogen dioxide chemoresistive gas sensors. <i>Applied Surface Science</i> , 2018, 442, 178-184.	3.1	34
76	Fabrication of tin substituted nickel ferrite (Sn-NiFe ₂ O ₄) thin film and its application as opto-electronic humidity sensor. <i>Sensors and Actuators A: Physical</i> , 2018, 272, 267-273.	2.0	44
77	Performance enhancement of mesoporous TiO ₂ -based perovskite solar cells by ZnS ultrathin-interfacial modification layer. <i>Journal of Alloys and Compounds</i> , 2018, 738, 405-414.	2.8	36
78	Sprayed tungsten-doped and undoped bismuth ferrite nanostructured films for reducing and oxidizing gas sensor applications. <i>Sensors and Actuators A: Physical</i> , 2018, 271, 37-43.	2.0	28
79	Study of gamma ray energy absorption and exposure buildup factors for ferrites by geometric progression fitting method. <i>Radiation Effects and Defects in Solids</i> , 2018, 173, 329-338.	0.4	13
80	Bismuth Oxychloride/MXene symmetric supercapacitor with high volumetric energy density. <i>Electrochimica Acta</i> , 2018, 271, 351-360.	2.6	144
81	Enhanced acetone sensing properties of titanium dioxide nanoparticles with a sub-ppm detection limit. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1701-1710.	4.0	110
82	Microwave-assisted synthesis and magneto-electrical properties of Mg-Zn ferrimagnetic oxide nanostructures. <i>Physica B: Condensed Matter</i> , 2018, 530, 177-182.	1.3	34
83	Enhanced DSSCs performance of TiO ₂ nanostructure by surface passivation layers. <i>Materials Research Bulletin</i> , 2018, 99, 491-495.	2.7	17
84	Hybrid composite polyaniline-nickel hydroxide electrode materials for supercapacitor applications. <i>Heliyon</i> , 2018, 4, e00801.	1.4	20
85	Promoted room-temperature LPG gas sensor activities of graphene oxide@Fe ₂ O ₃ composite sensor over individuals. <i>Materials Research Express</i> , 2018, 5, 125001.	0.8	15
86	Annealing environment effects on the electrochemical behavior of supercapacitors using Ni foam current collectors. <i>Materials Research Express</i> , 2018, 5, 125004.	0.8	8
87	Sprayed bismuth oxide interconnected nanoplate supercapacitor electrode materials. <i>Applied Surface Science</i> , 2018, 453, 214-219.	3.1	47
88	Metal-free heterogeneous and mesoporous biogenic graphene-oxide nanoparticle-catalyzed synthesis of bioactive benzylpyrazolyl coumarin derivatives. <i>RSC Advances</i> , 2018, 8, 17373-17379.	1.7	26
89	Low-Temperature Ionic Layer Adsorption and Reaction Grown Anatase TiO ₂ Nanocrystalline Films for Efficient Perovskite Solar Cell and Gas Sensor Applications. <i>Scientific Reports</i> , 2018, 8, 11016.	1.6	36
90	Magneto-structural behaviour of Gd doped nanocrystalline Co-Zn ferrites governed by domain wall movement and spin rotations. <i>Ceramics International</i> , 2018, 44, 21675-21683.	2.3	64

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91	Seawater electrolyte-mediated high volumetric MXene-based electrochemical symmetric supercapacitors. Dalton Transactions, 2018, 47, 8676-8682.	1.6	45
92	Chemical bath deposition of ZnO films at low pH for high chemoresistivity towards NO ₂ gas. Materials Research Express, 2018, 5, 075021.	0.8	4
93	Enhancement in room-temperature ammonia sensor activity of size-reduced cobalt ferrite nanoparticles on γ -irradiation. Materials Research Express, 2018, 5, 065035.	0.8	18
94	Room-temperature successive ion transfer chemical synthesis and the efficient acetone gas sensor and electrochemical energy storage applications of Bi ₂ O ₃ nanostructures. New Journal of Chemistry, 2018, 42, 12530-12538.	1.4	37
95	Low-temperature wet chemical synthesis strategy of In ₂ O ₃ for selective detection of NO ₂ down to ppb levels. Journal of Alloys and Compounds, 2018, 735, 2102-2110.	2.8	26
96	Structural, dielectric and enhanced soft magnetic properties of lithium (Li) substituted nickel ferrite	1.0	34
97	Magnet An Overview of Self-Grown Nanostructured Electrode Materials in Electrochemical Supercapacitors. Journal of the Korean Ceramic Society, 2018, 55, 407-418.	1.1	19
98	Electrochemical supercapacitors of cobalt hydroxide nanoplates grown on conducting cadmium oxide base-electrodes. Arabian Journal of Chemistry, 2017, 10, 515-522.	2.3	16
99	NiO@CuO@Cu bilayered electrode: two-step electrochemical synthesis supercapacitor properties. Journal of Solid State Electrochemistry, 2017, 21, 2609-2614.	1.2	14
100	Nanostructured tin oxide films: Physical synthesis, characterization, and gas sensing properties. Journal of Colloid and Interface Science, 2017, 493, 162-170.	5.0	49
101	Solution-processed rapid synthesis strategy of Co ₃ O ₄ for the sensitive and selective detection of H ₂ S. Sensors and Actuators B: Chemical, 2017, 245, 524-532.	4.0	71
102	Enhanced electrochemical activity of perforated graphene in nickel-oxide-based supercapacitors and fabrication of potential asymmetric supercapacitors. Sustainable Energy and Fuels, 2017, 1, 529-539.	2.5	16
103	Low-temperature chemical synthesis of rutile and anatase mixed phase TiO ₂ nanostructures for DSSCs photoanodes. Journal of Alloys and Compounds, 2017, 704, 187-192.	2.8	17
104	Pseudocapacitive performance of a solution-processed γ -Co(OH) ₂ electrode monitored through its surface morphology and area. Dalton Transactions, 2017, 46, 3393-3399.	1.6	19
105	High volumetric energy density annealed-MXene-nickel oxide/MXene asymmetric supercapacitor. RSC Advances, 2017, 7, 11000-11011.	1.7	166
106	Direct successive ionic layer adsorption and reaction (SILAR) synthesis of nickel and cobalt hydroxide composites for supercapacitor applications. Journal of Alloys and Compounds, 2017, 722, 809-817.	2.8	45
107	The structural and magnetic properties of dual phase cobalt ferrite. Scientific Reports, 2017, 7, 2524.	1.6	93
108	Electrochemical deposition of cadmium selenide films and their properties: a review. Journal of Solid State Electrochemistry, 2017, 21, 2517-2530.	1.2	19

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109	A binder-free wet chemical synthesis approach to decorate nanoflowers of bismuth oxide on Ni-foam for fabricating laboratory scale potential pencil-type asymmetric supercapacitor device. Dalton Transactions, 2017, 46, 6601-6611.	1.6	118
110	Galvanostatically electroplated MnO ₂ nanoplate-type electrode for potential electrochemical pseudocapacitor application. Journal of Solid State Electrochemistry, 2017, 21, 1817-1826.	1.2	19
111	Low-Temperature Solution-Processed Thiophene-Sulfur-Doped Planar ZnO Nanorods as Electron-Transporting Layers for Enhanced Performance of Organic Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 3831-3841.	4.0	8
112	Gold sensitized sprayed SnO ₂ nanostructured film for enhanced LPG sensing. Journal of Analytical and Applied Pyrolysis, 2017, 124, 362-368.	2.6	32
113	Flexible camphor sulfonic acid-doped PANi/±-Fe ₂ O ₃ nanocomposite films and their room temperature ammonia sensing activity. Materials Chemistry and Physics, 2017, 189, 191-197.	2.0	45
114	Non-magnetic thin films for magnetic field position sensor. Sensors and Actuators A: Physical, 2017, 254, 89-94.	2.0	15
115	Large, Linear, and Tunable Positive Magnetoresistance of Mechanically Stable Graphene Foam—Toward High-Performance Magnetic Field Sensors. ACS Applied Materials & Interfaces, 2017, 9, 1891-1898.	4.0	27
116	Cation distribution, magnetic properties and cubic-perovskite phase transition in bismuth-doped nickel ferrite. Solid State Sciences, 2017, 74, 88-94.	1.5	28
117	Irreconcilable room temperature magnetotransport properties of polypyrrole nanoparticles and nanorods. Journal Physics D: Applied Physics, 2017, 50, 365002.	1.3	8
118	Ethanol gas sensing properties of hydrothermally grown ±-MnO ₂ nanorods. Journal of Alloys and Compounds, 2017, 727, 362-369.	2.8	54
119	A simple wet-chemical synthesis, reaction mechanism, and charge storage application of cobalt oxide electrodes of different morphologies. Electrochimica Acta, 2017, 253, 151-162.	2.6	22
120	Natural Carbonized Sugar as a Low-Temperature Ammonia Sensor Material: Experimental, Theoretical, and Computational Studies. ACS Applied Materials & Interfaces, 2017, 9, 43051-43060.	4.0	32
121	Solution-processed nickel oxide films and their liquefied petroleum gas sensing activity. Journal of Alloys and Compounds, 2017, 695, 2008-2015.	2.8	41
122	Solid-state synthesis strategy of ZnO nanoparticles for the rapid detection of hazardous Cl ₂ . Sensors and Actuators B: Chemical, 2017, 238, 1102-1110.	4.0	71
123	Green synthesis and dye-sensitized solar cell application of rutile and anatase TiO ₂ nanorods. Journal of Solid State Electrochemistry, 2017, 21, 2713-2718.	1.2	15
124	Electrochemical synthesis and potential electrochemical energy storage performance of nodule-type polyaniline. Journal of Colloid and Interface Science, 2017, 487, 458-464.	5.0	28
125	Tailoring the morphology followed by the electrochemical performance of NiMn-LDH nanosheet arrays through controlled Co-doping for high-energy and power asymmetric supercapacitors. Dalton Transactions, 2017, 46, 12876-12883.	1.6	38
126	Sprayed zinc oxide films: Ultra-violet light-induced reversible surface wettability and platinum-sensitization-assisted improved liquefied petroleum gas response. Journal of Colloid and Interface Science, 2016, 480, 109-117.	5.0	33

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127	Hexamethylenetetramine-mediated TiO ₂ films: Facile chemical synthesis strategy and their use in nitrogen dioxide detection. <i>Materials Letters</i> , 2016, 173, 9-12.	1.3	13
128	Protective role of biogenic selenium nanoparticles in immunological and oxidative stress generated by enrofloxacin in broiler chicken. <i>Dalton Transactions</i> , 2016, 45, 8845-8853.	1.6	30
129	An eco-friendly physicochemical-based rapid synthesis of selenium nanoparticles. <i>RSC Advances</i> , 2016, 6, 48420-48426.	1.7	14
130	Pristine and cadmium-doped zinc oxide: chemical synthesis and characterizations. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 12335-12339.	1.1	14
131	Synthesis of nickel sulfide as a promising electrode material for pseudocapacitor application. <i>RSC Advances</i> , 2016, 6, 112589-112593.	1.7	30
132	Structural, morphological and electrochemical supercapacitive properties of sprayed manganese ferrite thin film electrode. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 122, 224-229.	2.6	35
133	D-sorbitol-induced phase control of TiO ₂ nanoparticles and its application for dye-sensitized solar cells. <i>Scientific Reports</i> , 2016, 6, 20103.	1.6	93
134	Polyaniline-cobalt hydroxide hybrid nanostructures and their supercapacitor studies. <i>Materials Chemistry and Physics</i> , 2016, 180, 226-236.	2.0	35
135	Co-functionalized organic/inorganic hybrid ZnO nanorods as electron transporting layers for inverted organic solar cells. <i>Nanoscale</i> , 2016, 8, 5024-5036.	2.8	22
136	Facile Synthesis of Microsphere Copper Cobalt Carbonate Hydroxides Electrode for Asymmetric Supercapacitor. <i>Electrochimica Acta</i> , 2016, 188, 898-908.	2.6	126
137	Nanomorphology-dependent pseudocapacitive properties of NiO electrodes engineered through a controlled potentiodynamic electrodeposition process. <i>RSC Advances</i> , 2016, 6, 24478-24483.	1.7	34
138	Photosensitization of ZnO nanowire-based electrodes using one-step hydrothermally synthesized CdSe/CdS (core/shell) sensitizer. <i>Solar Energy</i> , 2016, 125, 125-134.	2.9	15
139	Mixed-phase bismuth ferrite nanoflake electrodes for supercapacitor application. <i>Applied Nanoscience (Switzerland)</i> , 2016, 6, 511-519.	1.6	92
140	Revisiting Metal Sulfide Semiconductors: A Solution-Based General Protocol for Thin Film Formation, Hall Effect Measurement, and Application Prospects. <i>Advanced Functional Materials</i> , 2015, 25, 5739-5747.	7.8	70
141	High-Performance Platinum-Free Dye-Sensitized Solar Cells with Molybdenum Disulfide Films as Counter Electrodes. <i>ChemPhysChem</i> , 2015, 16, 3959-3965.	1.0	27
142	Influence of Bi ³⁺ -doping on the magnetic and Mössbauer properties of spinel cobalt ferrite. <i>Dalton Transactions</i> , 2015, 44, 6384-6390.	1.6	108
143	Electrochemical supercapacitor development based on electrodeposited nickel oxide film. <i>RSC Advances</i> , 2015, 5, 51961-51965.	1.7	82
144	Synthesis and structural, morphological, compositional, optical and electrical properties of DBSA-doped PPy-WO ₃ nanocomposites. <i>Progress in Organic Coatings</i> , 2015, 87, 88-94.	1.9	14

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145	Biosynthesis of silver nanoparticles by using <i>Ganoderma</i> -mushroom extract. <i>Modern Physics Letters B</i> , 2015, 29, 1540047.	1.0	7
146	Microstructure and electro-optical properties of Cu–Ni co-doped AZO transparent conducting thin films by sol–gel method. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 1151-1158.	1.1	3
147	Ultra-sensitive polyaniline–iron oxide nanocomposite room temperature ammonia sensor. <i>RSC Advances</i> , 2015, 5, 68964-68971.	1.7	91
148	Morphology-inspired low-temperature liquefied petroleum gas sensors of indium oxide. <i>Scripta Materialia</i> , 2015, 107, 54-58.	2.6	9
149	An ion exchange mediated shape-preserving strategy for constructing 1-D arrays of porous CoS _{1.0365} nanorods for electrocatalytic reduction of triiodide. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7900-7909.	5.2	57
150	Diameter-dependent electrochemical supercapacitive properties of anodized titanium oxide nanotubes. <i>Scripta Materialia</i> , 2015, 104, 60-63.	2.6	11
151	La ₂ O ₃ -encapsulated SnO ₂ nanocrystallite-based photoanodes for enhanced DSSCs performance. <i>Dalton Transactions</i> , 2015, 44, 3075-3081.	1.6	12
152	Interfacial Engineering Importance of Bilayered ZnO Cathode Buffer on the Photovoltaic Performance of Inverted Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7951-7960.	4.0	37
153	Calcium carbonate electronic-insulating layers improve the charge collection efficiency of tin oxide photoelectrodes in dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2015, 167, 379-387.	2.6	7
154	Bio-green synthesis of Ni-doped tin oxide nanoparticles and its influence on gas sensing properties. <i>RSC Advances</i> , 2015, 5, 72849-72856.	1.7	84
155	Synthesis and electrochemical supercapacitive performance of nickel–manganese ferrite composite films. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 116, 177-182.	2.6	38
156	Selenium nanostructures: microbial synthesis and applications. <i>RSC Advances</i> , 2015, 5, 92799-92811.	1.7	65
157	Simple and low-temperature polyaniline-based flexible ammonia sensor: a step towards laboratory synthesis to economical device design. <i>Journal of Materials Chemistry C</i> , 2015, 3, 9461-9468.	2.7	130
158	Improved Photoelectrochemical Cell Performance of Tin Oxide with Functionalized Multiwalled Carbon Nanotubes–Cadmium Selenide Sensitizer. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 25094-25104.	4.0	24
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