Taihong Wang

List of Publications by Year
in descending order

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342 papers	33,500 citations	2970 93 h-index	4545 171 g-index
343 all docs	343 docs citations	343 times ranked	31281 citing authors

#	Article	IF	Citations
1	Intrinsic peroxidase-like activity of ferromagnetic nanoparticles. Nature Nanotechnology, 2007, 2, 577-583.	15.6	5,080
2	Fabrication and ethanol sensing characteristics of ZnO nanowire gas sensors. Applied Physics Letters, 2004, 84, 3654-3656.	1.5	1,869
3	Layered SnS₂â€Reduced Graphene Oxide Composite â€“ A Highâ€Capacity, Highâ€Rate, and Longâ€Cycle Life Sodiumâ€Ion Battery Anode Material. Advanced Materials, 2014, 26, 3854-3859.	11.1	744
4	Adsorption and desorption of oxygen probed from ZnO nanowire films by photocurrent measurements. Applied Physics Letters, 2005, 86, 123117.	1.5	452
5	Positive Potential Operation of a Cathodic Electrogenerated Chemiluminescence Immunosensor Based on Luminol and Graphene for Cancer Biomarker Detection. Analytical Chemistry, 2011, 83, 3817-3823.	3.2	347
6	Oxygen sensing characteristics of individual ZnO nanowire transistors. Applied Physics Letters, 2004, 85, 6389-6391.	1.5	338
7	A novel nonenzymatic hydrogen peroxide sensor based on MnO2/graphene oxide nanocomposite. Talanta, 2010, 82, 1637-1641.	2.9	320
8	Nanomaterials for electrochemical non-enzymatic glucose biosensors. RSC Advances, 2013, 3, 3487.	1.7	315
9	High performance NiMoO4 nanowires supported on carbon cloth as advanced electrodes for symmetric supercapacitors. Nano Energy, 2014, 8, 174-182.	8.2	301
10	Low-field electron emission from tetrapod-like ZnO nanostructures synthesized by rapid evaporation. Applied Physics Letters, 2003, 83, 2253-2255.	1.5	300
11	Synthesis and properties of multipod-shaped ZnO nanorods for gas-sensor applications. Applied Physics A: Materials Science and Processing, 2005, 80, 1451-1454.	1.1	290
12	Magnetite/graphene composites: microwave irradiation synthesis and enhanced cycling and rate performances for lithium ion batteries. Journal of Materials Chemistry, 2010, 20, 5538.	6.7	284
13	Flexible ReS2 nanosheets/N-doped carbon nanofibers-based paper as a universal anode for alkali (Li, Na,) Tj ETQq1 1 0.784314 rgBT /Ov	8.2	280
14	Nanoforest of hierarchical Co3O4@NiCo2O4 nanowire arrays for high-performance supercapacitors. Nano Energy, 2013, 2, 586-594.	8.2	278
15	Sonochemical Synthesis, Optical Properties, and Electrical Properties of Core/Shell-Type ZnO Nanorod/CdS Nanoparticle Composites. Chemistry of Materials, 2005, 17, 887-892.	3.2	272
16	Pipe-Wire TiO₂â€“Sn@Carbon Nanofibers Paper Anodes for Lithium and Sodium Ion Batteries. Nano Letters, 2017, 17, 3830-3836.	4.5	272
17	Electronic transport through individual ZnO nanowires. Applied Physics Letters, 2004, 84, 4556-4558.	1.5	270
18	Comparison of the Electrochemical Performance of NiMoO₄ Nanorods and Hierarchical Nanospheres for Supercapacitor Applications. ACS Applied Materials & Interfaces, 2013, 5, 12905-12910.	4.0	267

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19	Hierarchical mushroom-like CoNi2S4 arrays as a novel electrode material for supercapacitors. Nano Energy, 2014, 3, 36-45.	8.2	265
20	Contact-controlled sensing properties of flowerlike ZnO nanostructures. Applied Physics Letters, 2005, 87, 213111.	1.5	263
21	Ultrathin Porous NiCo₂O₄ Nanosheet Arrays on Flexible Carbon Fabric for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2013, 5, 7405-7409.	4.0	259
22	Synthesis and H₂S Sensing Properties of CuOâ^'SnO₂ Core/Shell PN-Junction Nanorods. Journal of Physical Chemistry C, 2008, 112, 12157-12160.	1.5	258
23	One-Step Synthesis of Hierarchical SnO₂ Hollow Nanostructures via Self-Assembly for High Power Lithium Ion Batteries. Journal of Physical Chemistry C, 2010, 114, 8084-8088.	1.5	258
24	Synthesis, Self-Assembly, Disassembly, and Reassembly of Two Types of Cu₂O Nanocrystals Unifaceted with {001} or {110} Planes. Journal of the American Chemical Society, 2010, 132, 6131-6144.	6.6	251
25	Facile synthesis of uniform mesoporous ZnCo2O4 microspheres as a high-performance anode material for Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 5596.	5.2	250
26	Facile synthesis and excellent electrochemical properties of CoMoO4 nanoplate arrays as supercapacitors. Journal of Materials Chemistry A, 2013, 1, 7247.	5.2	246
27	High-performance supercapacitor and lithium-ion battery based on 3D hierarchical NH4F-induced nickel cobaltate nanosheetâ€“nanowire cluster arrays as self-supported electrodes. Nanoscale, 2013, 5, 9812.	2.8	242
28	Microwave absorption properties of the ZnO nanowire-polyester composites. Applied Physics Letters, 2004, 84, 3367-3369.	1.5	225
29	Controllable Fabrication and Electrical Performance of Single Crystalline Cu₂O Nanowires with High Aspect Ratios. Nano Letters, 2007, 7, 3723-3728.	4.5	225
30	Metastable Vanadium Dioxide Nanobelts: Hydrothermal Synthesis, Electrical Transport, and Magnetic Properties. Angewandte Chemie - International Edition, 2004, 43, 5048-5052.	7.2	214
31	Synthesis and ethanol sensing characteristics of single crystalline SnO2 nanorods. Applied Physics Letters, 2005, 87, 233503.	1.5	212
32	High-Performance Supercapacitor Electrode Based on the Unique ZnO@Co₃O₄ Core/Shell Heterostructures on Nickel Foam. ACS Applied Materials & Interfaces, 2014, 6, 15905-15912.	4.0	212
33	Construction of desirable NiCo2S4 nanotube arrays on nickel foam substrate for pseudocapacitors with enhanced performance. Electrochimica Acta, 2015, 151, 35-41.	2.6	206
34	Fast synthesis of SnO2/graphene composites by reducing graphene oxide with stannous ions. Journal of Materials Chemistry, 2011, 21, 1673-1676.	6.7	201
35	Enhanced Sensitivity and Stability of Room-Temperature NH₃ Sensors Using Coreâ€“Shell CeO₂ Nanoparticles@Cross-linked PANI with pâ€“n Heterojunctions. ACS Applied Materials & Interfaces, 2014, 6, 14131-14140.	4.0	201
36	Three-Dimensional Co₃O₄@NiMoO₄ Core/Shell Nanowire Arrays on Ni Foam for Electrochemical Energy Storage. ACS Applied Materials & Interfaces, 2014, 6, 5050-5055.	4.0	198

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37	Low-resistance gas sensors fabricated from multiwalled carbon nanotubes coated with a thin tin oxide layer. Applied Physics Letters, 2004, 85, 666-668.	1.5	195
38	CdS nanobelts as photoconductors. Applied Physics Letters, 2005, 86, 173105.	1.5	194
39	Morphogenesis of Highly Uniform CoCO₃ Submicrometer Crystals and Their Conversion to Mesoporous Co₃O₄ for Gas-Sensing Applications. Chemistry of Materials, 2009, 21, 4984-4992.	3.2	194
40	Individual Î²-Ga2O3 nanowires as solar-blind photodetectors. Applied Physics Letters, 2006, 88, 153107.	1.5	192
41	Room-temperature hydrogen storage characteristics of ZnO nanowires. Applied Physics Letters, 2004, 84, 124-126.	1.5	186
42	NiMoO4 nanowires supported on Ni foam as novel advanced electrodes for supercapacitors. Journal of Materials Chemistry A, 2013, 1, 9024.	5.2	185
43	A novel amperometric biosensor based on NiO hollow nanospheres for biosensing glucose. Talanta, 2008, 77, 455-459.	2.9	176
44	Electrochemical performance of polycrystalline CuO nanowires as anode material for Li ion batteries. Electrochimica Acta, 2009, 54, 4198-4201.	2.6	175
45	Electrospun porous SnO2 nanotubes as high capacity anode materials for lithium ion batteries. Electrochemistry Communications, 2010, 12, 1383-1386.	2.3	174
46	The structure control of ZnS/graphene composites and their excellent properties for lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 13384-13389.	5.2	172
47	The enhanced ethanol sensing properties of multi-walled carbon nanotubes/SnO2core/shell nanostructures. Nanotechnology, 2006, 17, 3012-3017.	1.3	169
48	Positive temperature coefficient resistance and humidity sensing properties of Cd-doped ZnO nanowires. Applied Physics Letters, 2004, 84, 3085-3087.	1.5	161
49	Simple method for the preparation of highly porous ZnCo2O4 nanotubes with enhanced electrochemical property for supercapacitor. Electrochimica Acta, 2014, 123, 450-455.	2.6	160
50	High Sulfur Loading in Hierarchical Porous Carbon Rods Constructed by Vertically Oriented Porous Grapheneâ€Like Nanosheets for Liâ€S Batteries. Advanced Functional Materials, 2016, 26, 8952-8959.	7.8	159
51	Carbon Nanotube Delivery of the GFP Gene into Mammalian Cells. ChemBioChem, 2006, 7, 239-242.	1.3	156
52	Plate-like pâ€“n heterogeneous NiO/WO3 nanocomposites for high performance room temperature NO2 sensors. Nanoscale, 2014, 6, 4063.	2.8	155
53	CoOâ€“carbon nanofiber networks prepared by electrospinning as binder-free anode materials for lithium-ion batteries with enhanced properties. Nanoscale, 2013, 5, 12342.	2.8	149
54	Ab Initio Study of ZnO-Based Gas-Sensing Mechanisms: Surface Reconstruction and Charge Transfer. Journal of Physical Chemistry C, 2009, 113, 6107-6113.	1.5	147

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55	In situ synthesis of SnO2/graphene nanocomposite and their application as anode material for lithium ion battery. Materials Letters, 2010, 64, 2076-2079.	1.3	146
56	Highly Sensitive Electrogenerated Chemiluminescence Biosensor in Profiling Protein Kinase Activity and Inhibition Using Gold Nanoparticle as Signal Transduction Probes. Analytical Chemistry, 2010, 82, 9566-9572.	3.2	145
57	Î²-Cobalt sulfide nanoparticles decorated graphene composite electrodes for high capacity and power supercapacitors. Nanoscale, 2012, 4, 7810.	2.8	145
58	An amorphous Si thin film anode with high capacity and long cycling life for lithium ion batteries. Journal of Applied Electrochemistry, 2009, 39, 1157-1162.	1.5	142
59	Stable field emission from tetrapod-like ZnO nanostructures. Applied Physics Letters, 2004, 85, 636-638.	1.5	139
60	Porous Carbon Nanofibers Derived from Conducting Polymer: Synthesis and Application in Lithium-Ion Batteries with High-Rate Capability. Journal of Physical Chemistry C, 2009, 113, 13438-13442.	1.5	139
61	Topochemical Preparation of WO₃ Nanoplates through Precursor H₂WO₄ and Their Gas-Sensing Performances. Journal of Physical Chemistry C, 2011, 115, 18157-18163.	1.5	137
62	High-Performance Lithium-Ion Battery Anode by Direct Growth of Hierarchical ZnCo₂O₄ Nanostructures on Current Collectors. ACS Applied Materials & Interfaces, 2014, 6, 731-736.	4.0	137
63	Low-Temperature H₂S Detection with Hierarchical Cr-Doped WO₃ Microspheres. ACS Applied Materials & Interfaces, 2016, 8, 9674-9683.	4.0	136
64	Facile solvothermal synthesis of mesoporous Cu2SnS3 spheres and their application in lithium-ion batteries. Nanoscale, 2011, 3, 3646.	2.8	135
65	Construction of unique NiCo2O4 nanowire@CoMoO4 nanoplate core/shell arrays on Ni foam for high areal capacitance supercapacitors. Journal of Materials Chemistry A, 2014, 2, 4954.	5.2	134
66	Synthesis of Cobalt Ionâ€Based Coordination Polymer Nanowires and Their Conversion into Porous Co₃O₄ Nanowires with Good Lithium Storage Properties. Chemistry - A European Journal, 2010, 16, 5215-5221.	1.7	131
67	Reduced graphene oxide networks as an effective buffer matrix to improve the electrode performance of porous NiCo2O4 nanoplates for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 4449.	5.2	131
68	Fast humidity sensors based on CeO2nanowires. Nanotechnology, 2007, 18, 145503.	1.3	130
69	Synthesis of Bacteria Promoted Reduced Graphene Oxide-Nickel Sulfide Networks for Advanced Supercapacitors. ACS Applied Materials & Interfaces, 2013, 5, 7335-7340.	4.0	130
70	Synthesis and ethanol sensing properties of ZnSnO3 nanowires. Applied Physics Letters, 2005, 86, 233101.	1.5	127
71	A green and fast strategy for the scalable synthesis of Fe2O3/graphene with significantly enhanced Li-ion storage properties. Journal of Materials Chemistry, 2012, 22, 3868.	6.7	125
72	Three-Dimensional Functionalized Tetrapod-like ZnO Nanostructures for Plasmid DNA Delivery. Small, 2006, 2, 621-625.	5.2	124

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73	Targeting Chemophotothermal Therapy of Hepatoma by Gold Nanorods/Graphene Oxide Core/Shell Nanocomposites. ACS Applied Materials & Interfaces, 2013, 5, 12911-12920.	4.0	123
74	Ultralong Singleâ€Crystalline Ag₂S Nanowires: Promising Candidates for Photoswitches and Roomâ€Temperature Oxygen Sensors. Advanced Materials, 2008, 20, 2628-2632.	11.1	121
75	Flexible CoOâ€“grapheneâ€“carbon nanofiber mats as binder-free anodes for lithium-ion batteries with superior rate capacity and cyclic stability. Journal of Materials Chemistry A, 2014, 2, 5890-5897.	5.2	121
76	Construction of hierarchical CoS nanowire@NiCo₂S₄ nanosheet arrays via one-step ion exchange for high-performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 24033-24040.	5.2	119
77	Surface accumulation conduction controlled sensing characteristic of p-type CuO nanorods induced by oxygen adsorption. Nanotechnology, 2007, 18, 145506.	1.3	118
78	Enhanced performance of supercapacitors with ultrathin mesoporous NiMoO4 nanosheets. Electrochimica Acta, 2014, 125, 294-301.	2.6	116
79	One-Step Synthesis and Gas-Sensing Characteristics of Uniformly Loaded Pt@SnO₂ Nanorods. Journal of Physical Chemistry C, 2010, 114, 3968-3972.	1.5	115
80	Facile synthesis of carbon nanofibers/MnO2 nanosheets as high-performance electrodes for asymmetric supercapacitors. Electrochimica Acta, 2016, 210, 754-761.	2.6	115
81	Field-emission from long SnO2 nanobelt arrays. Applied Physics Letters, 2004, 85, 5682-5684.	1.5	113
82	Superior electrochemical performance of ultrasmall SnS2 nanocrystals decorated on flexible RGO in lithium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 8658.	5.2	110
83	Facile hydrothermal synthesis of hierarchical ultrathin mesoporous NiMoO4 nanosheets for high performance supercapacitors. Electrochimica Acta, 2014, 115, 358-363.	2.6	110
84	Porous platelike hematite mesocrystals: synthesis, catalytic and gas-sensing applications. Journal of Materials Chemistry, 2012, 22, 11694.	6.7	109
85	Î±-Fe₂O₃nanochains: ammonium acetate-based ionothermal synthesis and ultrasensitive sensors for low-ppm-level H₂S gas. Nanoscale, 2013, 5, 895-898.	2.8	107
86	Enhanced gas sensing properties of ZnO/SnO₂hierarchical architectures by glucose-induced attachment. CrystEngComm, 2011, 13, 1557-1563.	1.3	105
87	Branched SnO2 nanowires on metallic nanowire backbones for ethanol sensors application. Applied Physics Letters, 2008, 92, .	1.5	103
88	Catalyst-Assisted Vaporâ^'Liquidâ^'Solid Growth of Single-Crystal CdS Nanobelts and Their Luminescence Properties. Journal of Physical Chemistry B, 2004, 108, 20045-20049.	1.2	102
89	Synthesis and ethanol sensing properties of indium-doped tin oxide nanowires. Applied Physics Letters, 2006, 88, 201907.	1.5	101
90	Flexible morphology-controlled synthesis of mesoporous hierarchical Î±-Fe2O3 architectures and their gas-sensing properties. CrystEngComm, 2011, 13, 806-812.	1.3	100

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91	Growth of NiCo₂O₄@MnMoO₄ Nanocolumn Arrays with Superior Pseudocapacitor Properties. ACS Applied Materials & Interfaces, 2016, 8, 8568-8575.	4.0	100
92	Black phosphorus-based van der Waals heterostructures for mid-infrared light-emission applications. Light: Science and Applications, 2020, 9, 114.	7.7	100
93	Graphene oxide oxidizes stannous ions to synthesize tin sulfideâ€“graphene nanocomposites with small crystal size for high performance lithium ion batteries. Journal of Materials Chemistry, 2012, 22, 23091.	6.7	97
94	Synthesis of mesoporous NiO nanospheres as anode materials for lithium ion batteries. Electrochimica Acta, 2012, 80, 140-147.	2.6	95
95	Metalâ€“organic-framework-derived ZnO@C@NiCo₂O₄ coreâ€“shell structures as an advanced electrode for high-performance supercapacitors. Journal of Materials Chemistry A, 2016, 4, 8233-8241.	5.2	94
96	Promises and challenges of tin-based compounds as anode materials for lithium-ion batteries. International Materials Reviews, 2015, 60, 330-352.	9.4	93
97	Î±-Fe2O3 nanowall arrays: hydrothermal preparation, growth mechanism and excellent rate performances for lithium ion batteries. Nanoscale, 2012, 4, 3422.	2.8	92
98	Enhanced electrochemical performance of CoMoO4 nanorods/reduced graphene oxide as anode material for lithium-ion batteries. Electrochimica Acta, 2015, 158, 327-332.	2.6	92
99	Synthesis of ZnSnO3 mesocrystals from regular cube-like to sheet-like structures and their comparative electrochemical properties in Li-ion batteries. Journal of Materials Chemistry, 2012, 22, 25373.	6.7	91
100	Superior ethanol-sensing properties based on Ni-doped SnO2 pâ€“n heterojunction hollow spheres. Sensors and Actuators B: Chemical, 2012, 166-167, 61-67.	4.0	90
101	Preparation of 3D flower-like NiO hierarchical architectures and their electrochemical properties in lithium-ion batteries. Electrochimica Acta, 2013, 90, 80-89.	2.6	90
102	Construction of 3D flower-like MoS2 spheres with nanosheets as anode materials for high-performance lithium ion batteries. Electrochimica Acta, 2014, 115, 165-169.	2.6	90
103	High performance and negative temperature coefficient of low temperature hydrogen gas sensors using palladium decorated tungsten oxide. Journal of Materials Chemistry A, 2015, 3, 1317-1324.	5.2	90
104	Sonochemical synthesis of SnO2 nanobelt/CdS nanoparticle core/shell heterostructures. Chemical Communications, 2004, , 2558.	2.2	89
105	Encapsulating Gold Nanoparticles or Nanorods in Graphene Oxide Shells as a Novel Gene Vector. ACS Applied Materials & Interfaces, 2013, 5, 2715-2724.	4.0	89
106	Porous Î±-Fe2O3 nanosphere-based H2S sensor with fast response, high selectivity and enhanced sensitivity. Journal of Materials Chemistry A, 2013, 1, 12400.	5.2	89
107	Morphology controlled synthesis of NiCo 2 O 4 nanosheet array nanostructures on nickel foam and their application for pseudocapacitors. Electrochimica Acta, 2014, 142, 118-124.	2.6	88
108	Rapid and ultrahigh ethanol sensing based on Au-coated ZnO nanorods. Nanotechnology, 2008, 19, 035501.	1.3	86

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109	Synthesis of self-assembled 3D flowerlike SnS2 nanostructures with enhanced lithium ion storage property. Solid State Sciences, 2010, 12, 712-718.	1.5	86
110	SnO₂monolayer porous hollow spheres as a gas sensor. Nanotechnology, 2009, 20, 455503.	1.3	85
111	Carbon and graphene double protection strategy to improve the SnOx electrode performance anodes for lithium-ion batteries. Nanoscale, 2013, 5, 5499.	2.8	85
112	Plate-like SnS₂nanostructures: Hydrothermal preparation, growth mechanism and excellent electrochemical properties. CrystEngComm, 2012, 14, 832-836.	1.3	84
113	Hierarchical Mo-decorated Co3O4 nanowire arrays on Ni foam substrates for advanced electrochemical capacitors. Journal of Materials Chemistry A, 2013, 1, 8593.	5.2	84
114	High-temperature humidity sensors based on WO₃â€“SnO₂ composite hollow nanospheres. Journal of Materials Chemistry A, 2014, 2, 6854-6862.	5.2	84
115	High-performance ethanol sensing based on an aligned assembly of ZnO nanorods. Sensors and Actuators B: Chemical, 2008, 135, 57-60.	4.0	83
116	Ternary Cu2SnS3 cabbage-like nanostructures: large-scale synthesis and their application in Li-ion batteries with superior reversible capacity. Nanoscale, 2011, 3, 4389.	2.8	83
117	WO3 nanoparticles decorated on both sidewalls of highly porous TiO2 nanotubes to improve UV and visible-light photocatalysis. Journal of Materials Chemistry A, 2013, 1, 3900.	5.2	82
118	Shot Noise with Interaction Effects in Single-Walled Carbon Nanotubes. Physical Review Letters, 2007, 99, 156803.	2.9	81
119	Improved room-temperature hydrogen sensing performance of directly formed Pd/WO3 nanocomposite. Sensors and Actuators B: Chemical, 2014, 193, 28-34.	4.0	81
120	1D Nb-doped LiNi1/3Co1/3Mn1/3O2 nanostructures as excellent cathodes for Li-ion battery. Electrochimica Acta, 2019, 297, 258-266.	2.6	81
121	Giant negative thermopower of ionic hydrogel by synergistic coordination and hydration interactions. Science Advances, 2021, 7, eabi7233.	4.7	81
122	NiO nanomaterials: controlled fabrication, formation mechanism and the application in lithium-ion battery. CrystEngComm, 2012, 14, 453-459.	1.3	79
123	High electrochemical performance based on the TiO₂ nanobelt@few-layered MoS₂ structure for lithium-ion batteries. Nanoscale, 2014, 6, 12350-12353.	2.8	78
124	Rational synthesis of metalâ€“organic framework composites, hollow structures and their derived porous mixed metal oxide hollow structures. Journal of Materials Chemistry A, 2016, 4, 183-192.	5.2	77
125	Achieving fast oxygen response in individual Î²-Ga2O3 nanowires by ultraviolet illumination. Applied Physics Letters, 2006, 89, 112114.	1.5	76
126	Porous NiCo2O4-reduced graphene oxide (rGO) composite with superior capacitance retention for supercapacitors. Electrochimica Acta, 2014, 132, 332-337.	2.6	76

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127	Facile synthesis of well-ordered manganese oxide nanosheet arrays on carbon cloth for high-performance supercapacitors. Journal of Materials Chemistry A, 2014, 2, 8833.	5.2	76
128	Enhanced Optical and Sensing Properties of One-Step Synthesized Ptâ^'ZnO Nanoflowers. Journal of Physical Chemistry C, 2010, 114, 18607-18611.	1.5	74
129	An evolution from 3D face-centered-cubic ZnSnO₃nanocubes to 2D orthorhombic ZnSnO₃nanosheets with excellent gas sensing performance. Nanotechnology, 2012, 23, 415501.	1.3	73
130	Single Nozzle Electrospinning Synthesized MoO₂@C Core Shell Nanofibers with High Capacity and Longâ€Term Stability for Lithiumâ€Ion Storage. Advanced Materials Interfaces, 2017, 4, 1600816.	1.9	73
131	Bandgap narrowing and ethanol sensing properties of In-doped ZnO nanowires. Nanotechnology, 2007, 18, 225504.	1.3	72
132	Siâ€"Al thin film anode material with superior cycle performance and rate capability for lithium ion batteries. Electrochimica Acta, 2008, 53, 8149-8153.	2.6	71
133	Enhanced selective acetone sensing characteristics based on Co-doped WO3 hierarchical flower-like nanostructures assembled with nanoplates. Sensors and Actuators B: Chemical, 2016, 235, 614-621.	4.0	70
134	Optoelectronic characteristics of single CdS nanobelts. Applied Physics Letters, 2005, 86, 193109.	1.5	68
135	Room-temperature hydrogen sensor based on grain-boundary controlled Pt decorated In2O3 nanocubes. Sensors and Actuators B: Chemical, 2014, 201, 351-359.	4.0	68
136	High performance humidity sensors based on CeO2 nanoparticles. Sensors and Actuators B: Chemical, 2015, 215, 125-132.	4.0	67
137	Vertically aligned tin-doped indium oxide nanowire arrays: Epitaxial growth and electron field emission properties. Applied Physics Letters, 2006, 89, 123102.	1.5	66
138	Bi2S3 nanomaterials: morphology manipulation and related properties. Dalton Transactions, 2011, 40, 10100.	1.6	66
139	Synthesis of mesoporous SnO2 spheres via self-assembly and superior lithium storage properties. Electrochimica Acta, 2011, 56, 2358-2363.	2.6	66
140	A Facile Titanium Glycolate Precursor Route to Mesoporous Au/Li₄Ti₅O₁₂ Spheres for High-Rate Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2012, 4, 1233-1238.	4.0	65
141	Hierarchical porous carbon microrods composed of vertically aligned graphene-like nanosheets for Li-ion batteries. Journal of Materials Chemistry A, 2015, 3, 19800-19806.	5.2	62
142	Single-crystalline tin-doped indium oxide whiskers: Synthesis and characterization. Applied Physics Letters, 2004, 85, 4759-4761.	1.5	61
143	Ionic liquid-modulated preparation of hexagonal tungsten trioxide mesocrystals for lithium-ion batteries. Nanoscale, 2015, 7, 2230-2234.	2.8	61
144	3D hierarchical CuO mesocrystals from ionic liquid precursors: towards better electrochemical performance for Li-ion batteries. Journal of Materials Chemistry A, 2016, 4, 8402-8411.	5.2	61

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145	Topochemical synthesis of cobalt oxide nanowire arrays for high performance binderless lithium ion batteries. Journal of Materials Chemistry, 2011, 21, 11867.	6.7	60
146	Anomalous conductivity-type transition sensing behaviors of n-type porous Î±-Fe2O3 nanostructures toward H2S. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2011, 176, 600-605.	1.7	60
147	An excellent enzyme biosensor based on Sb-doped SnO2 nanowires. Biosensors and Bioelectronics, 2010, 25, 2436-2441.	5.3	59
148	Catalytic growth of In2O3 nanobelts by vapor transport. Journal of Crystal Growth, 2006, 290, 660-664.	0.7	58
149	High-performance room-temperature hydrogen sensors based on combined effects of Pd decoration and Schottky barriers. Nanoscale, 2013, 5, 2505.	2.8	58
150	Long circulating reduced graphene oxideâ€“iron oxide nanoparticles for efficient tumor targeting and multimodality imaging. Nanoscale, 2016, 8, 12683-12692.	2.8	58
151	The optical properties of ZnO sheets electrodeposited on ITO glass. Materials Letters, 2007, 61, 2000-2003.	1.3	57
152	Designable fabrication of flower-like SnS2 aggregates with excellent performance in lithium-ion batteries. RSC Advances, 2012, 2, 3615.	1.7	57
153	Rational synthesis of ZnMn₂O₄ porous spheres and graphene nanocomposite with enhanced performance for lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 11430-11436.	5.2	57
154	Controlled synthesis of iron sulfide coated by carbon layer to improve lithium and sodium storage. Electrochimica Acta, 2017, 247, 1080-1087.	2.6	56
155	Indium-tin-oxide thin film transistor biosensors for label-free detection of avian influenza virus H5N1. Analytica Chimica Acta, 2013, 773, 83-88.	2.6	55
156	Highly sensitive ethanol sensors based on {100}-bounded In2O3 nanocrystals due to face contact. Applied Physics Letters, 2006, 89, 243514.	1.5	54
157	Low-temperature synthesis and electrical transport properties of W18O49 nanowires. Journal of Crystal Growth, 2008, 310, 462-466.	0.7	54
158	Ultrasensitive ethanol sensor based on 3D aloe-like SnO2. Sensors and Actuators B: Chemical, 2012, 166-167, 7-11.	4.0	54
159	Homogenous incorporation of SnO2 nanoparticles in carbon cryogels via the thermal decomposition of stannous sulfate and their enhanced lithium-ion intercalation properties. Nano Energy, 2013, 2, 769-778.	8.2	54
160	Electrospun CeO 2 nanoparticles/PVP nanofibers based high-frequency surface acoustic wave humidity sensor. Sensors and Actuators B: Chemical, 2016, 223, 730-737.	4.0	54
161	Two-Dimensional Single Crystal CdS Nanosheets: Synthesis and Properties. Crystal Growth and Design, 2010, 10, 4995-5000.	1.4	53
162	Hierarchical CuCo₂O₄ nanowire@NiCo₂O₄ nanosheet core/shell arrays for high-performance supercapacitors. RSC Advances, 2015, 5, 69636-69641.	1.7	53

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163	Ultrahigh ethanol response of SnO2 nanorods at low working temperature arising from La2O3 loading. Sensors and Actuators B: Chemical, 2009, 140, 426-431.	4.0	52
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