

Zhi Yang

List of Publications by Citations

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323
papers

18,551
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68
h-index

125
g-index

332
ext. papers

21,210
ext. citations

7
avg, IF

6.89
L-index

#	Paper	IF	Citations
323	Sulfur-doped graphene as an efficient metal-free cathode catalyst for oxygen reduction. <i>ACS Nano</i> , 2012 , 6, 205-11	16.7	1580
322	Shape- and size-dependent refractive index sensitivity of gold nanoparticles. <i>Langmuir</i> , 2008 , 24, 5233-74		960
321	Nitrogen-doped, carbon-rich, highly photoluminescent carbon dots from ammonium citrate. <i>Nanoscale</i> , 2014 , 6, 1890-5	7.7	668
320	Tailoring longitudinal surface plasmon wavelengths, scattering and absorption cross sections of gold nanorods. <i>ACS Nano</i> , 2008 , 2, 677-86	16.7	471
319	A Review on Graphene-Based Gas/Vapor Sensors with Unique Properties and Potential Applications. <i>Nano-Micro Letters</i> , 2016 , 8, 95-119	19.5	383
318	Hierarchically porous and heteroatom doped carbon derived from tobacco rods for supercapacitors. <i>Journal of Power Sources</i> , 2016 , 307, 391-400	8.9	374
317	Mechanical properties of atomically thin boron nitride and the role of interlayer interactions. <i>Nature Communications</i> , 2017 , 8, 15815	17.4	371
316	Novel Three-Dimensional Mesoporous Silicon for High Power Lithium-Ion Battery Anode Material. <i>Advanced Energy Materials</i> , 2011 , 1, 1036-1039	21.8	352
315	Strong polarization dependence of plasmon-enhanced fluorescence on single gold nanorods. <i>Nano Letters</i> , 2009 , 9, 3896-903	11.5	348
314	Reduced graphene oxide/polyaniline hybrid: Preparation, characterization and its applications for ammonia gas sensing. <i>Journal of Materials Chemistry</i> , 2012 , 22, 22488		272
313	A green heterogeneous synthesis of N-doped carbon dots and their photoluminescence applications in solid and aqueous states. <i>Nanoscale</i> , 2014 , 6, 10307-15	7.7	258
312	pH-Controlled reversible assembly and disassembly of gold nanorods. <i>Small</i> , 2008 , 4, 1287-92	11	239
311	INVESTIGATION OF HOMOLOGOUS SERIES AS PRECURSORY HYDROCARBONS FOR ALIGNED CARBON NANOTUBE FORMATION BY THE SPRAY PYROLYSIS METHOD. <i>Nano</i> , 2011 , 06, 205-213	1.1	219
310	Ultrafast and sensitive room temperature NH ₃ gas sensors based on chemically reduced graphene oxide. <i>Nanotechnology</i> , 2014 , 25, 025502	3.4	204
309	Gas sensor based on p-phenylenediamine reduced graphene oxide. <i>Sensors and Actuators B: Chemical</i> , 2012 , 163, 107-114	8.5	201
308	Controllable Synthesis of Fluorescent Carbon Dots and Their Detection Application as Nanoprobes. <i>Nano-Micro Letters</i> , 2013 , 5, 247-259	19.5	200
307	Nonenzymatic electrochemical detection of glucose using well-distributed nickel nanoparticles on straight multi-walled carbon nanotubes. <i>Biosensors and Bioelectronics</i> , 2011 , 30, 28-34	11.8	186

306	TiO ₂ /graphene nanocomposites for photocatalytic hydrogen production from splitting water. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 2224-2230	6.7	182
305	A general approach to the synthesis of gold-metal sulfide core-shell and heterostructures. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 2881-5	16.4	180
304	Ultrahigh Conductive Graphene Paper Based on Ball-Milling Exfoliated Graphene. <i>Advanced Functional Materials</i> , 2017 , 27, 1700240	15.6	176
303	The microwave-assisted solvothermal synthesis of a crystalline two-dimensional covalent organic framework with high CO ₂ capacity. <i>Chemical Communications</i> , 2015 , 51, 12178-81	5.8	170
302	Polysulfide-Scission Reagents for the Suppression of the Shuttle Effect in Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2017 , 11, 2209-2218	16.7	168
301	Glutathione- and cysteine-induced transverse overgrowth on gold nanorods. <i>Journal of the American Chemical Society</i> , 2007 , 129, 6402-4	16.4	164
300	Coupling between molecular and plasmonic resonances in freestanding dye-gold nanorod hybrid nanostructures. <i>Journal of the American Chemical Society</i> , 2008 , 130, 6692-3	16.4	159
299	Functionalized Boron Nitride Nanosheets/Graphene Interlayer for Fast and Long-Life Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2017 , 7, 1602380	21.8	155
298	Reduced graphene oxide/polypyrrole nanotube papers for flexible all-solid-state supercapacitors with excellent rate capability and high energy density. <i>Journal of Power Sources</i> , 2016 , 302, 39-45	8.9	152
297	Sandwich-Type NbS@S@I-Doped Graphene for High-Sulfur-Loaded, Ultrahigh-Rate, and Long-Life Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2017 , 11, 8488-8498	16.7	141
296	Nanonecklaces assembled from gold rods, spheres, and bipyramids. <i>Chemical Communications</i> , 2007 , 1816-8	5.8	139
295	Single-walled carbon nanotube/cobalt phthalocyanine derivative hybrid material: preparation, characterization and its gas sensing properties. <i>Journal of Materials Chemistry</i> , 2011 , 21, 3779		137
294	Rare-Earth-Doped Nanocrystalline Titania Microspheres Emitting Luminescence via Energy Transfer. <i>Advanced Materials</i> , 2008 , 20, 903-908	24	127
293	Three-dimensional structures of graphene/polyaniline hybrid films constructed by steamed water for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2017 , 342, 1-8	8.9	123
292	Design of Hetero-Nanostructures on MoS Nanosheets To Boost NO Room-Temperature Sensing. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22640-22649	9.5	121
291	The Prospective Two-Dimensional Graphene Nanosheets: Preparation, Functionalization and Applications. <i>Nano-Micro Letters</i> , 2012 , 4, 1-9	19.5	113
290	Synchronous Gains of Areal and Volumetric Capacities in Lithium-Sulfur Batteries Promised by Flower-like Porous TiCT Matrix. <i>ACS Nano</i> , 2019 , 13, 3404-3412	16.7	110
289	Porous carbon nanotubes etched by water steam for high-rate large-capacity lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 8683-8689	13	109

288	Molybdenum Carbide Nanoparticles Coated into the Graphene Wrapping N-Doped Porous Carbon Microspheres for Highly Efficient Electrocatalytic Hydrogen Evolution Both in Acidic and Alkaline Media. <i>Advanced Science</i> , 2018 , 5, 1700733	13.6	106
287	A lightweight multifunctional interlayer of sulfur/nitrogen dual-doped graphene for ultrafast, long-life lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15343-15352	13	106
286	Three-dimensional skeleton networks of graphene wrapped polyaniline nanofibers: an excellent structure for high-performance flexible solid-state supercapacitors. <i>Scientific Reports</i> , 2016 , 6, 19777	4.9	106
285	Graphene oxide promotes the differentiation of mouse embryonic stem cells to dopamine neurons. <i>Nanomedicine</i> , 2014 , 9, 2445-55	5.6	103
284	Gold Nanobipyramid-Directed Growth of Length-Variable Silver Nanorods with Multipolar Plasmon Resonances. <i>ACS Nano</i> , 2015 , 9, 7523-35	16.7	102
283	Three-dimensional conductive networks based on stacked SiO@graphene frameworks for enhanced gas sensing. <i>Nanoscale</i> , 2017 , 9, 109-118	7.7	102
282	An ultrasensitive NO ₂ gas sensor based on a hierarchical Cu ₂ O/CuO mesocrystal nanoflower. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17120-17131	13	92
281	Hot-injection synthesis and characterization of quaternary Cu ₂ ZnSnSe ₄ nanocrystals. <i>Materials Letters</i> , 2010 , 64, 1424-1426	3.3	90
280	Gas sensors based on deposited single-walled carbon nanotube networks for DMMP detection. <i>Nanotechnology</i> , 2009 , 20, 345502	3.4	88
279	Gold Nanobipyramid-Supported Silver Nanostructures with Narrow Plasmon Linewidths and Improved Chemical Stability. <i>Advanced Functional Materials</i> , 2016 , 26, 341-352	15.6	87
278	Exceptional negative thermal expansion and viscoelastic properties of graphene oxide paper. <i>Carbon</i> , 2012 , 50, 2804-2809	10.4	87
277	Rational design of sandwiched polyaniline nanotube/layered graphene/polyaniline nanotube papers for high-volumetric supercapacitors. <i>Chemical Engineering Journal</i> , 2017 , 309, 89-97	14.7	86
276	Flexible gas sensors with assembled carbon nanotube thin films for DMMP vapor detection. <i>Sensors and Actuators B: Chemical</i> , 2010 , 150, 708-714	8.5	86
275	One-step synthesis of large-aspect-ratio single-crystalline gold nanorods by using CTPAB and CTBAB surfactants. <i>Chemistry - A European Journal</i> , 2007 , 13, 2929-36	4.8	86
274	Ammonia gas sensors based on chemically reduced graphene oxide sheets self-assembled on Au electrodes. <i>Nanoscale Research Letters</i> , 2014 , 9, 251	5	83
273	Studies on NH ₃ gas sensing by zinc oxide nanowire-reduced graphene oxide nanocomposites. <i>Sensors and Actuators B: Chemical</i> , 2017 , 252, 284-294	8.5	82
272	Facile construction of manganese oxide doped carbon nanotube catalysts with high activity for oxygen reduction reaction and investigations into the origin of their activity enhancement. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 2601-6	9.5	79
271	Engineering the Exciton Dissociation in Quantum-Confined 2D CsPbBr ₃ Nanosheet Films. <i>Advanced Functional Materials</i> , 2018 , 28, 1705908	15.6	77

270	A non-enzymatic glucose sensor based on the composite of cubic Cu nanoparticles and arc-synthesized multi-walled carbon nanotubes. <i>Biosensors and Bioelectronics</i> , 2013 , 47, 86-91	11.8	76
269	Study on Tribological Properties of Multi-walled Carbon Nanotubes/Epoxy Resin Nanocomposites. <i>Tribology Letters</i> , 2005 , 20, 251-254	2.8	76
268	Morphology Control and Photocatalysis Enhancement by in Situ Hybridization of Cuprous Oxide with Nitrogen-Doped Carbon Quantum Dots. <i>Langmuir</i> , 2016 , 32, 9418-27	4	76
267	Curvature-directed assembly of gold nanocubes, nanobranched, and nanospheres. <i>Langmuir</i> , 2009 , 25, 1692-8	4	74
266	Nanofoaming to Boost the Electrochemical Performance of Ni@Ni(OH) Nanowires for Ultrahigh Volumetric Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 27868-27876	9.5	72
265	High Sensitivity Localized Surface Plasmon Resonance Sensing Using a Double Split NanoRing Cavity. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 24469-24477	3.8	71
264	High dispersion and electrocatalytic activity of Pd/titanium dioxide nanotubes catalysts for hydrazine oxidation. <i>Journal of Power Sources</i> , 2008 , 175, 266-271	8.9	71
263	A study on carbon nanotubes reinforced poly(methyl methacrylate) nanocomposites. <i>Materials Letters</i> , 2005 , 59, 2128-2132	3.3	71
262	One-step electrodeposition of nickel cobalt sulfide nanosheets on Ni nanowire film for hybrid supercapacitor. <i>Electrochimica Acta</i> , 2018 , 259, 617-625	6.7	70
261	High-performance ZnO/Ag Nanowire/ZnO composite film UV photodetectors with large area and low operating voltage. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 4312-4319	7.1	69
260	Realization of Red Plasmon Shifts up to ~900 nm by AgPd-Tipping Elongated Au Nanocrystals. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13837-13846	16.4	69
259	Synthesis and properties of electroless Ni/P/Nanometer Diamond composite coatings. <i>Surface and Coatings Technology</i> , 2005 , 191, 161-165	4.4	69
258	A facile and general approach for the direct fabrication of 3D, vertically aligned carbon nanotube array/transition metal oxide composites as non-Pt catalysts for oxygen reduction reactions. <i>Advanced Materials</i> , 2014 , 26, 3156-61	24	68
257	Multi-junction joints network self-assembled with converging ZnO nanowires as multi-barrier gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2013 , 177, 1027-1034	8.5	68
256	Preparation and properties of Ni/P/single-walled carbon nanotubes composite coatings by means of electroless plating. <i>Thin Solid Films</i> , 2004 , 466, 86-91	2.2	68
255	Tunable band gap Cu ₂ ZnSnS ₄ xSe ₄ (1-x) nanocrystals: experimental and first-principles calculations. <i>CrystEngComm</i> , 2011 , 13, 2222	3.3	67
254	Enhanced NO ₂ sensing performance of reduced graphene oxide by in situ anchoring carbon dots. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 6862-6871	7.1	66
253	ZnO Nanowire-Reduced Graphene Oxide Hybrid Based Portable NH ₃ Gas Sensing Electron Device. <i>IEEE Electron Device Letters</i> , 2015 , 36, 1376-1379	4.4	66

252	Enhanced formaldehyde detection based on Ni doping of SnO ₂ nanoparticles by one-step synthesis. <i>Sensors and Actuators B: Chemical</i> , 2018 , 263, 120-128	8.5	66
251	Paper-like graphene-Ag composite films with enhanced mechanical and electrical properties. <i>Nanoscale Research Letters</i> , 2013 , 8, 32	5	66
250	Fabrication and characterization of highly ordered zirconia nanowire arrays by sol-gel template method. <i>Materials Chemistry and Physics</i> , 2003 , 80, 524-528	4.4	66
249	Enhanced wear resistance and micro-hardness of polystyrene nanocomposites by carbon nanotubes. <i>Materials Chemistry and Physics</i> , 2005 , 94, 109-113	4.4	66
248	Subnanometer Molybdenum Sulfide on Carbon Nanotubes as a Highly Active and Stable Electrocatalyst for Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3543-3550	9.5	65
247	Selective Pd Deposition on Au Nanobipyramids and Pd Site-Dependent Plasmonic Photocatalytic Activity. <i>Advanced Functional Materials</i> , 2017 , 27, 1700016	15.6	64
246	Hydrophilic and blue fluorescent N-doped carbon dots from tartaric acid and various alkylol amines under microwave irradiation. <i>Nanoscale</i> , 2015 , 7, 15915-23	7.7	62
245	Preparation of hollow porous Cu ₂ O microspheres and photocatalytic activity under visible light irradiation. <i>Nanoscale Research Letters</i> , 2012 , 7, 347	5	61
244	ZnO nanowire/reduced graphene oxide nanocomposites for significantly enhanced photocatalytic degradation of Rhodamine 6G. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014 , 56, 251-253	3	60
243	Biosynthesis and Antibacterial Activity of Silver Nanoparticles Using Yeast Extract as Reducing and Capping Agents. <i>Nanoscale Research Letters</i> , 2020 , 15, 14	5	59
242	Two-dimensional NiO nanosheets with enhanced room temperature NO sensing performance via Al doping. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 19043-19049	3.6	59
241	Construction of MoS ₂ /SnO ₂ heterostructures for sensitive NO ₂ detection at room temperature. <i>Applied Surface Science</i> , 2019 , 493, 613-619	6.7	58
240	Fabrication and characteristics of N-doped Ga ₂ O ₃ nanowires. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 98, 831-835	2.6	58
239	Microwave formation and photoluminescence mechanisms of multi-states nitrogen doped carbon dots. <i>Applied Surface Science</i> , 2017 , 422, 257-265	6.7	57
238	Blue and green photoluminescence graphene quantum dots synthesized from carbon fibers. <i>Materials Letters</i> , 2013 , 93, 161-164	3.3	57
237	Wearable rGO-Ag NW@ cotton fiber piezoresistive sensor based on the fast charge transport channel provided by Ag nanowire. <i>Nano Energy</i> , 2018 , 50, 528-535	17.1	57
236	Emulsion-templated liquid core-polymer shell microcapsule formation. <i>Langmuir</i> , 2009 , 25, 2572-4	4	56
235	Interface engineered WS ₂ /ZnS heterostructures for sensitive and reversible NO ₂ room temperature sensing. <i>Sensors and Actuators B: Chemical</i> , 2019 , 296, 126666	8.5	55

234	Carbon quantum dots decorated Cu ₂ S nanowire arrays for enhanced photoelectrochemical performance. <i>Nanoscale</i> , 2016 , 8, 8559-67	7.7	54
233	Light-assisted recovery for a highly-sensitive NO ₂ sensor based on RGO-CeO ₂ hybrids. <i>Sensors and Actuators B: Chemical</i> , 2018 , 270, 119-129	8.5	54
232	The fabrication and corrosion behavior of electroless NiB-carbon nanotube composite coatings. <i>Materials Research Bulletin</i> , 2005 , 40, 1001-1009	5.1	53
231	One-pot liquid-phase exfoliation from graphite to graphene with carbon quantum dots. <i>Nanoscale</i> , 2015 , 7, 10527-34	7.7	52
230	Semi-Transparent ZnO-CuI/CuSCN Photodiode Detector with Narrow-Band UV Photoresponse. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 21235-44	9.5	52
229	One-step synthesis of 2D C ₃ N ₄ -tin oxide gas sensors for enhanced acetone vapor detection. <i>Sensors and Actuators B: Chemical</i> , 2017 , 253, 641-651	8.5	52
228	Cobalt Doping To Boost the Electrochemical Properties of Ni@Ni S Nanowire Films for High-Performance Supercapacitors. <i>ChemSusChem</i> , 2017 , 10, 4056-4065	8.3	51
227	One-step preparation and assembly of aqueous colloidal CdS(x)Se(1-x) nanocrystals within mesoporous TiO ₂ films for quantum dot-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 5139-48	9.5	51
226	A Facile Route for the Large Scale Fabrication of Graphene Oxide Papers and Their Mechanical Enhancement by Cross-linking with Glutaraldehyde. <i>Nano-Micro Letters</i> , 2011 , 3, 215-222	19.5	51
225	Incorporation of Gold Nanorods and Their Enhancement of Fluorescence in Mesostructured Silica Thin Films. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 18895-18903	3.8	51
224	All-organic covalent organic framework/polyaniline composites as stable electrode for high-performance supercapacitors. <i>Materials Letters</i> , 2019 , 236, 354-357	3.3	51
223	Three-dimensional VO _x /NiS/NF nanosheets as efficient electrocatalyst for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 10156-10162	6.7	50
222	Direct Inkjet Printing of Aqueous Inks to Flexible All-Solid-State Graphene Hybrid Micro-Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 46044-46053	9.5	50
221	Rapid large-scale preparation of ZnO nanowires for photocatalytic application. <i>Nanoscale Research Letters</i> , 2011 , 6, 536	5	50
220	Highly Enhanced Visible-Light-Driven Photoelectrochemical Performance of ZnO-Modified InS Nanosheet Arrays by Atomic Layer Deposition. <i>Nano-Micro Letters</i> , 2018 , 10, 45	19.5	49
219	Two-dimensional Cd-doped porous Co ₃ O ₄ nanosheets for enhanced room-temperature NO ₂ sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2020 , 305, 127393	8.5	49
218	Ultrasensitive room temperature NO ₂ sensors based on liquid phase exfoliated WSe ₂ nanosheets. <i>Sensors and Actuators B: Chemical</i> , 2019 , 300, 127013	8.5	48
217	All-inorganic lead halide perovskites: a promising choice for photovoltaics and detectors. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 12415-12440	7.1	48

216	Three-dimensional chemically reduced graphene oxide templated by silica spheres for ammonia sensing. <i>Sensors and Actuators B: Chemical</i> , 2017 , 252, 956-964	8.5	48
215	Electrodeposited Manganese Oxide on Nickel Foam-Supported Carbon Nanotubes for Electrode of Supercapacitors. <i>Electrochemical and Solid-State Letters</i> , 2011 , 14, A93		47
214	Densely packed single-crystal Bi ₂ Fe ₄ O ₉ nanowires fabricated from a template-induced sol-gel route. <i>Journal of Solid State Chemistry</i> , 2006 , 179, 3324-3329	3.3	47
213	In Situ Self-Sacrificed Template Synthesis of Fe-N/G Catalysts for Enhanced Oxygen Reduction. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 18170-8	9.5	46
212	Sonochemical synthesis of hierarchical WO ₃ flower-like spheres for highly efficient triethylamine detection. <i>Sensors and Actuators B: Chemical</i> , 2020 , 306, 127536	8.5	46
211	Controllable synthesis of crescent-shaped porous NiO nanoplates for conductometric ethanol gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2019 , 296, 126642	8.5	45
210	Shape-stabilized phase change materials based on fatty acid eutectics/expanded graphite composites for thermal storage. <i>Energy and Buildings</i> , 2015 , 109, 353-360	7	45
209	Steamed water engineering mechanically robust graphene films for high-performance electrochemical capacitive energy storage. <i>Nano Energy</i> , 2016 , 26, 668-676	17.1	45
208	A one-pot synthesis of reduced graphene oxide-CuS quantum dot hybrids for optoelectronic devices. <i>Nanoscale</i> , 2013 , 5, 8889-93	7.7	45
207	Densely-packed graphene/conducting polymer nanoparticle papers for high-volumetric-performance flexible all-solid-state supercapacitors. <i>Applied Surface Science</i> , 2016 , 379, 206-212	6.7	45
206	Rapid solid-phase microwave synthesis of highly photoluminescent nitrogen-doped carbon dots for Fe(3+) detection and cellular bioimaging. <i>Nanotechnology</i> , 2016 , 27, 395706	3.4	45
205	Controlled growth of vertically aligned ultrathin InS nanosheet arrays for photoelectrochemical water splitting. <i>Nanoscale</i> , 2018 , 10, 1153-1161	7.7	45
204	Glucose-assisted synthesis of hierarchical flower-like Co ₃ O ₄ nanostructures assembled by porous nanosheets for enhanced acetone sensing. <i>Sensors and Actuators B: Chemical</i> , 2019 , 288, 699-706	8.5	44
203	A dual CoNi MOF nanosheet/nanotube assembled on carbon cloth for high performance hybrid supercapacitors. <i>Electrochimica Acta</i> , 2020 , 342, 136124	6.7	44
202	Arc synthesis of double-walled carbon nanotubes in low pressure air and their superior field emission properties. <i>Carbon</i> , 2013 , 58, 92-98	10.4	44
201	A Z-scheme photocatalyst for enhanced photocatalytic H ₂ evolution, constructed by growth of 2D plasmonic MoO ₃ nanoplates onto 2D g-CN nanosheets. <i>Journal of Colloid and Interface Science</i> , 2020 , 567, 213-223	9.3	44
200	Controllable synthesis of heterostructured CuO/NiO nanotubes and their synergistic effect for glycol gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2020 , 304, 127347	8.5	43
199	Highly Conductive Porous Transition Metal Dichalcogenides via Water Steam Etching for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 18845-18853	9.5	41

198	Spray-Coated CsPbBr Quantum Dot Films for Perovskite Photodiodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 26387-26395	9.5	41
197	Understanding the roles of plasmonic Au nanocrystal size, shape, aspect ratio and loading amount in Au/g-CN hybrid nanostructures for photocatalytic hydrogen generation. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 22296-22307	3.6	41
196	Bi-metal organic framework nanosheets assembled on nickel wire films for volumetric-energy-dense supercapacitors. <i>Journal of Power Sources</i> , 2019 , 423, 80-89	8.9	40
195	A comparison study between ZnO nanorods coated with graphene oxide and reduced graphene oxide. <i>Journal of Alloys and Compounds</i> , 2014 , 582, 29-32	5.7	38
194	Controlled synthesis of highly ordered LaFeO ₃ nanowires using a citrate-based sol-gel route. <i>Materials Research Bulletin</i> , 2006 , 41, 274-281	5.1	38
193	Flexible Nanogenerator Based on Single BaTiO ₃ Nanowire. <i>Science of Advanced Materials</i> , 2013 , 5, 1781-1787	1.7	38
192	Au nanoparticle-embedded, nitrogen-deficient hollow mesoporous carbon nitride spheres for nitrogen photofixation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16218-16231	13	38
191	Gold nanobipyramid@cuprous oxide jujube-like nanostructures for plasmon-enhanced photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2018 , 234, 26-36	21.8	36
190	In situ preparation of cubic Cu ₂ O-RGO nanocomposites for enhanced visible-light degradation of methyl orange. <i>Nanotechnology</i> , 2016 , 27, 265703	3.4	36
189	Synthesis of CuInS ₂ nanowire arrays via solution transformation of Cu ₂ S self-template for enhanced photoelectrochemical performance. <i>Applied Catalysis B: Environmental</i> , 2017 , 203, 715-724	21.8	35
188	Synthesis of single-walled carbon nanotubes with selective diameter distributions using DC arc discharge under CO mixed atmosphere. <i>Applied Surface Science</i> , 2011 , 257, 3123-3127	6.7	35
187	Controllable Biosynthesis and Properties of Gold Nanoplates Using Yeast Extract. <i>Nano-Micro Letters</i> , 2017 , 9, 5	19.5	34
186	Novel Sn _x Se _{1-x} nanocrystals with tunable band gap: experimental and first-principles calculations. <i>Journal of Materials Chemistry</i> , 2011 , 21, 12605		34
185	Template synthesis of highly ordered hydroxyapatite nanowire arrays. <i>Journal of Materials Science</i> , 2005 , 40, 1121-1125	4.3	34
184	High-performance flexible all-solid-state supercapacitors based on densely-packed graphene/polypyrrole nanoparticle papers. <i>Applied Surface Science</i> , 2016 , 387, 666-673	6.7	34
183	Effect of Graphene-EC on Ag NW-Based Transparent Film Heaters: Optimizing the Stability and Heat Dispersion of Films. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1077-1083	9.5	34
182	Hierarchical CoNi ₂ S ₄ nanosheet/nanotube array structure on carbon fiber cloth for high-performance hybrid supercapacitors. <i>Electrochimica Acta</i> , 2019 , 305, 81-89	6.7	33
181	Two-dimensional MoSe nanosheets via liquid-phase exfoliation for high-performance room temperature NO gas sensors. <i>Nanotechnology</i> , 2019 , 30, 445503	3.4	33

180	Scalable synthesis of Fe ₂ O ₃ /CNT composite as high-performance anode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 770, 116-124	5.7	32
179	Facile synthesis and photoelectric properties of carbon dots with upconversion fluorescence using arc-synthesized carbon by-products. <i>RSC Advances</i> , 2014 , 4, 4839	3.7	32
178	Template induced sol-gel synthesis of highly ordered LaNiO ₃ nanowires. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 1157-1164	3.3	32
177	Rapid mass production of ZnO nanowires by a modified carbothermal reduction method. <i>Materials Letters</i> , 2011 , 65, 832-835	3.3	31
176	Anomalous Temperature-Dependent Exciton-Phonon Coupling in Cesium Lead Bromide Perovskite Nanosheets. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 5128-5135	3.8	30
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