Zhi Yang

List of Publications by Year in Descending Order

323 papers	18,551 citations	68 h-index	125 g-index
332 ext. papers	21,210 ext. citations	7 avg, IF	6.89 L-index

#	Paper	IF	Citations
323	Target discrimination, concentration prediction, and status judgment of electronic nose system based on large-scale measurement and multi-task deep learning. *Sensors and Actuators B: Chemical*, **2022**, 351, 130915	8.5	6
322	Unmanned Gas-Sensing System for Large-Scale Measurement of Electronic Nose. *Lecture Notes in Electrical Engineering*, **2022**, 629-637	0.2	
321	Interface engineered hollow Co3O4@CoNi2S4 nanostructure for high efficiency supercapacitor and hydrogen evolution. *Electrochimica Acta*, **2022**, 412, 140139	6.7	2
320	Conducting polymer-bridged three-dimensional heterojunctions of reduced graphene oxide/Fe2O3 hybrids for high-performance NO2 gas sensing. *Results in Surfaces and Interfaces*, **2022**, 7, 100057	0	1
319	Classification and concentration prediction of VOCs with high accuracy based on an electronic nose using an ELM-ELM integrated algorithm. *IEEE Sensors Journal*, **2022**, 1-1	4	2
318	A Novel Artificial Neuron-Like Gas Sensor Constructed from CuS Quantum Dots/BiS Nanosheets. *Nano-Micro Letters*, **2021**, 14, 8	19.5	8
317	Type discrimination and concentration prediction towards ethanol using a machine learning-enhanced gas sensor array with different morphology-tuning characteristics. *Physical Chemistry Chemical Physics*, **2021**, 23, 23933-23944	3.6	2
316	Defect-Engineered NiCo-S Composite as a Bifunctional Electrode for High-Performance Supercapacitor and Electrocatalysis. *ACS Applied Materials & Interfaces*, **2021**, 13, 47717-47727	9.5	8
315	Enhanced dimethyl methylphosphonate detection based on two-dimensional WSe nanosheets at room temperature. *Analyst, The*, **2021**, 145, 8059-8067	5	10
314	A Study of All-solid-state Planar Micro-supercapacitors Using Printable MoS2 Inks. *Chemistry Letters* , **2021**, 50, 452-455	1.7	2
313	Yolk-Shelled Gold@Cuprous Oxide Nanostructures with Hot Carriers Boosting Photocatalytic Performance. *Langmuir*, **2021**, 37, 4578-4586	4	4
312	Microwave-Assisted Chitosan-Functionalized Graphene Oxide as Controlled Intracellular Drug Delivery Nanosystem for Synergistic Antitumour Activity. *Nanoscale Research Letters*, **2021**, 16, 75	5	0
311	Construction, Application and Verification of a Novel Formaldehyde Gas Sensor System Based on Ni-Doped SnO2 Nanoparticles. *IEEE Sensors Journal*, **2021**, 21, 11023-11030	4	12
310	Binder-Free, Flexible, and Self-Standing Non-Woven Fabric Anodes Based on Graphene/Si Hybrid Fibers for High-Performance Li-Ion Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 27270-27277	9.5	7
309	Review of recent progress on graphene-based composite gas sensors. *Ceramics International*, **2021**, 47, 16367-16384	5.1	18
308	In-plane Defect Engineering Enabling Ultra-stable Graphene Paper-based Hosts for Lithium Metal Anodes. *ChemElectroChem*, **2021**, 8, 3273-3281	4.3	2
307	Highly sensitive sensor based on ordered porous ZnO nanosheets for ethanol detecting application. *Sensors and Actuators B: Chemical*, **2021**, 326, 128952	8.5	27

306	Glucose-assisted synthesis of hierarchical NiO-ZnO heterostructure with enhanced glycol gas sensing performance. *Sensors and Actuators B: Chemical*, **2021**, 329, 129167	8.5	22
305	Enhancing room-temperature NO gas sensing performance based on a metal phthalocyanine/graphene quantum dot hybrid material.. *RSC Advances*, **2021**, 11, 5618-5628	3.7	4
304	Noble metal (Ag, Au, Pd and Pt) doped TaS monolayer for gas sensing: a first-principles investigation. *Physical Chemistry Chemical Physics*, **2021**, 23, 18359-18368	3.6	5
303	Hierarchical WS2WO3 Nanohybrids with PN Heterojunctions for NO2 Detection. *ACS Applied Nano Materials*, **2021**, 4, 1626-1634	5.6	10
302	Carbon Foam Fibers with a Concentric Tube-Core/Three-Dimensional Nanosheet-Sheath Structure for High-Performance Lithium-Sulfur Batteries. *ChemElectroChem*, **2021**, 8, 873-879	4.3	4
301	Design of p-p heterojunctions based on CuO decorated WSnanosheets for sensitive NHgas sensing at room temperature. *Nanotechnology*, **2021**, 32,	3.4	8
300	Free-standing films based on Ni wires core/foamed NiO shell as hosts for stable lithium anodes. *Journal of Power Sources*, **2021**, 506, 230161	8.9	1
299	Carbon coating on metal oxide materials for electrochemical energy storage. *Nanotechnology*, **2021**, 32,	3.4	3
298	Wearable NO2 sensing and wireless application based on ZnS nanoparticles/nitrogen-doped reduced graphene oxide. *Sensors and Actuators B: Chemical*, **2021**, 345, 130423	8.5	7
297	Binary nanosheet frameworks of graphene/polyaniline composite for high-areal flexible supercapacitors. *Materials Chemistry and Physics*, **2021**, 273, 125128	4.4	3
296	Highly sensitive and recoverable room-temperature NO2 gas detection realized by 2D/0D MoS2/ZnS heterostructures with synergistic effects. *Sensors and Actuators B: Chemical*, **2021**, 347, 130608	8.5	12
295	Room temperature DMMP gas sensing based on cobalt phthalocyanine derivative/graphene quantum dot hybrid materials.. *RSC Advances*, **2021**, 11, 14805-14813	3.7	4
294	Ag-Modified 3D Reduced Graphene Oxide Aerogel-Based Sensor with an Embedded Microheater for a Fast Response and High-Sensitive Detection of NO. *ACS Applied Materials & Interfaces*, **2020**, 12, 25243-25252	9.5	22
293	Biosynthesis and Antibacterial Activity of Silver Nanoparticles Using Yeast Extract as Reducing and Capping Agents. *Nanoscale Research Letters*, **2020**, 15, 14	5	59
292	The electrochemical synthesis of CNTs/N-Cu2S composites as efficient electrocatalysts for water oxidation. *Journal of Nanoparticle Research*, **2020**, 22, 1	2.3	1
291	Graphene/GaAs heterojunction for highly sensitive, self-powered Visible/NIR photodetectors. *Materials Science in Semiconductor Processing*, **2020**, 111, 104989	4.3	18
290	Design and modulation principles of molybdenum carbide-based materials for green hydrogen evolution. *Journal of Energy Chemistry*, **2020**, 48, 398-423	12	19
289	Semiconducting single-walled carbon nanotube/graphene van der Waals junctions for highly sensitive all-carbon hybrid humidity sensors. *Journal of Materials Chemistry C*, **2020**, 8, 3386-3394	7.1	19

288	A dual CoNi MOF nanosheet/nanotube assembled on carbon cloth for high performance hybrid supercapacitors. *Electrochimica Acta*, **2020**, 342, 136124	6.7	44
287	Influence of □and □W phases on performance of SMR devices. *Vacuum*, **2020**, 178, 109463	3.7	1
286	Au nanoparticle-embedded, nitrogen-deficient hollow mesoporous carbon nitride spheres for nitrogen photofixation. *Journal of Materials Chemistry A*, **2020**, 8, 16218-16231	13	38
285	Controllable synthesis of heterostructured CuO□NiO nanotubes and their synergistic effect for glycol gas sensing. *Sensors and Actuators B: Chemical*, **2020**, 304, 127347	8.5	43
284	Two-dimensional Cd-doped porous Co3O4 nanosheets for enhanced room-temperature NO2 sensing performance. *Sensors and Actuators B: Chemical*, **2020**, 305, 127393	8.5	49
283	Highly sensitive NO gas sensors based on hexagonal SnS nanoplates operating at room temperature. *Nanotechnology*, **2020**, 31, 075501	3.4	15
282	Fabrication of porous TiO2-RGO hybrid aerogel for high-efficiency, visible-light photodegradation of dyes. *Journal of Alloys and Compounds*, **2020**, 819, 153033	5.7	19
281	Sonochemical synthesis of hierarchical WO3 flower-like spheres for highly efficient triethylamine detection. *Sensors and Actuators B: Chemical*, **2020**, 306, 127536	8.5	46
280	Polyelectrolytes/reduced graphene oxide assembled film as a promising NO2 gas sensing material. *Ceramics International*, **2020**, 46, 5119-5125	5.1	2
279	Non-woven fabric electrodes based on graphene-based fibers for areal-energy-dense flexible solid-state supercapacitors. *Chemical Engineering Journal*, **2020**, 392, 123692	14.7	30
278	Self-Powered Broadband Photodetector Based on Single-Walled Carbon Nanotube/GaAs Heterojunctions. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 15532-15539	8.3	11
277	A Z-scheme photocatalyst for enhanced photocatalytic H evolution, constructed by growth of 2D plasmonic MoO nanoplates onto 2D g-CN nanosheets. *Journal of Colloid and Interface Science*, **2020**, 567, 213-223	9.3	44
276	Inkjet-Printed Ultrathin MoS-Based Electrodes for Flexible In-Plane Microsupercapacitors. *ACS Applied Materials & Interfaces*, **2020**, 12, 39444-39454	9.5	22
275	Enhancing room-temperature NO detection of cobalt phthalocyanine based gas sensor at an ultralow laser exposure. *Physical Chemistry Chemical Physics*, **2020**, 22, 18499-18506	3.6	4
274	Multichannel Room-Temperature Gas Sensors Based on Magnetic-Field-Aligned 3D FeO@SiO@Reduced Graphene Oxide Spheres. *ACS Applied Materials & Interfaces*, **2020**, 12, 37418-37426	9.5	11
273	Innovative development on a p-type delafossite CuCrO2 nanoparticles based triethylamine sensor. *Sensors and Actuators B: Chemical*, **2020**, 324, 128743	8.5	11
272	PANI/Graphene quantum dots/graphene co-coated compressed non-woven towel for wearable energy storage. *Synthetic Metals*, **2020**, 270, 116571	3.6	4
271	Highly Sensitive Room-Temperature NO2 Gas Sensors Based on Three-Dimensional Multiwalled Carbon Nanotube Networks on SiO2 Nanospheres. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 13915-13923	8.3	11

270	A novel channel-wall engineering strategy for two-dimensional cationic covalent organic frameworks: Microwave-assisted anion exchange and enhanced carbon dioxide capture. *Chinese Chemical Letters*, **2020**, 31, 193-196	8.1	15
269	Electrical insulation improvements of ceramic coating for high temperature sensors embedded on aeroengine turbine blade. *Ceramics International*, **2020**, 46, 3600-3605	5.1	11
268	A Unique Ionization Gas Sensor With Extraordinary Susceptibility of Sub-1-Volt. *IEEE Sensors Journal* , **2020**, 20, 3423-3428	4	1
267	Dual-targeted therapy in HER2-positive breast cancer cells with the combination of carbon dots/HER3 siRNA and trastuzumab. *Nanotechnology*, **2020**, 31, 335102	3.4	20
266	Three-Dimensional Fe3O4@Reduced Graphene Oxide Heterojunctions for High-Performance Room-Temperature NO2 Sensors. *Frontiers in Materials*, **2019**, 6,	4	19
265	Laser-induced bi-metal sulfide/graphene nanoribbon hybrid frameworks for high-performance all-in-one fiber supercapacitors. *Journal of Power Sources*, **2019**, 438, 227044	8.9	21
264	Ultrasensitive room temperature NO2 sensors based on liquid phase exfoliated WSe2 nanosheets. *Sensors and Actuators B: Chemical*, **2019**, 300, 127013	8.5	48
263	All-inorganic lead halide perovskites: a promising choice for photovoltaics and detectors. *Journal of Materials Chemistry C*, **2019**, 7, 12415-12440	7.1	48
262	Organic composition tailored perovskite solar cells and light-emitting diodes: Perspectives and advances. *Materials Today Energy*, **2019**, 14, 100338	7	8
261	Anomalous Temperature-Dependent Exciton–Phonon Coupling in Cesium Lead Bromide Perovskite Nanosheets. *Journal of Physical Chemistry C*, **2019**, 123, 5128-5135	3.8	30
260	Nanowire-assisted self-assembly of one-dimensional nanocrystal superlattice chains. *Journal of Materials Chemistry C*, **2019**, 7, 8471-8476	7.1	13
259	Insights into the role of graphene in hybrid photocatalytic system by in-situ shell-isolated nanoparticle-enhanced Raman spectroscopy. *Carbon*, **2019**, 152, 305-315	10.4	3
258	Self-cleaning SERS membrane for reusable and ultrasensitive molecular detection via integrating graphitic-carbon-nitride nanosheets and Ag nanospheres into hierarchical graphene layers that covered with graphitic-carbon-nitride quantum-dots. *Applied Surface Science*, **2019**, 489, 1010-1018	6.7	8
257	Interface engineered WS2/ZnS heterostructures for sensitive and reversible NO2 room temperature sensing. *Sensors and Actuators B: Chemical*, **2019**, 296, 126666	8.5	55
256	Controllable synthesis of crescent-shaped porous NiO nanoplates for conductometric ethanol gas sensors. *Sensors and Actuators B: Chemical*, **2019**, 296, 126642	8.5	45
255	Graphene Oxide-Modified Polyacrylonitrile Nanofibrous Membranes for Efficient Air Filtration. *ACS Applied Nano Materials*, **2019**, 2, 3916-3924	5.6	30
254	One-pot synthesis of hierarchical Ag mesoparticles with tunable morphology for ultrasensitive surface-enhanced Raman scattering activity. *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2019**, 37, 032601	1.3	
253	Hierarchical CoNi2S4 nanosheet/nanotube array structure on carbon fiber cloth for high-performance hybrid supercapacitors. *Electrochimica Acta*, **2019**, 305, 81-89	6.7	33

252	Glucose-assisted synthesis of hierarchical flower-like Co3O4 nanostructures assembled by porous nanosheets for enhanced acetone sensing. *Sensors and Actuators B: Chemical*, **2019**, 288, 699-706	8.5	44
251	Molecular Sensitivities of Substrate-Supported Gold Nanocrystals. *Journal of Physical Chemistry C*, **2019**, 123, 7336-7346	3.8	12
250	Three-dimensional VOx/NiS/NF nanosheets as efficient electrocatalyst for oxygen evolution reaction. *International Journal of Hydrogen Energy*, **2019**, 44, 10156-10162	6.7	50
249	Bi-metal organic framework nanosheets assembled on nickel wire films for volumetric-energy-dense supercapacitors. *Journal of Power Sources*, **2019**, 423, 80-89	8.9	40
248	Scalable synthesis of Fe2O3/CNT composite as high-performance anode material for lithium-ion batteries. *Journal of Alloys and Compounds*, **2019**, 770, 116-124	5.7	32
247	Graphene van der Waals heterostructures for high-performance photodetectors. *Journal of Materials Chemistry C*, **2019**, 7, 11056-11067	7.1	21
246	Construction of MoS2/SnO2 heterostructures for sensitive NO2 detection at room temperature. *Applied Surface Science*, **2019**, 493, 613-619	6.7	58
245	Two-dimensional MoSe nanosheets via liquid-phase exfoliation for high-performance room temperature NO gas sensors. *Nanotechnology*, **2019**, 30, 445503	3.4	33
244	Short-circuit current density and fill factor improvement by optimizing In2O3:H and metal back reflector layers for p-i-n a-SiGe:H thin film solar cells. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 17759-17764	2.1	1
243	Single-Nanowire Fuse for Ionization Gas Detection. *Sensors*, **2019**, 19,	3.8	10
242	MoS2 quantum dots decorated reduced graphene oxide as a sulfur host for advanced lithium-sulfur batteries. *Electrochimica Acta*, **2019**, 327, 134994	6.7	25
241	Direct Inkjet Printing of Aqueous Inks to Flexible All-Solid-State Graphene Hybrid Micro-Supercapacitors. *ACS Applied Materials & Interfaces*, **2019**, 11, 46044-46053	9.5	50
240	Synchronous Gains of Areal and Volumetric Capacities in Lithium-Sulfur Batteries Promised by Flower-like Porous TiCT Matrix. *ACS Nano*, **2019**, 13, 3404-3412	16.7	110
239	All-organic covalent organic framework/polyaniline composites as stable electrode for high-performance supercapacitors. *Materials Letters*, **2019**, 236, 354-357	3.3	51
238	Process optimization and device variation of Mg-doped ZnO FBARs. *Solid-State Electronics*, **2019**, 151, 11-17	1.7	2
237	Gold nanobipyramid@cuprous oxide jujube-like nanostructures for plasmon-enhanced photocatalytic performance. *Applied Catalysis B: Environmental*, **2018**, 234, 26-36	21.8	36
236	Highly Enhanced Visible-Light-Driven Photoelectrochemical Performance of ZnO-Modified InS Nanosheet Arrays by Atomic Layer Deposition. *Nano-Micro Letters*, **2018**, 10, 45	19.5	49
235	In situ coating nickel organic complexes on free-standing nickel wire films for volumetric-energy-dense supercapacitors. *Nanotechnology*, **2018**, 29, 275401	3.4	5

234	Broadside Nanoantennas Made of Single Silver Nanorods. *ACS Nano*, **2018**, 12, 1720-1731	16.7	15
233	Enhanced formaldehyde detection based on Ni doping of SnO2 nanoparticles by one-step synthesis. *Sensors and Actuators B: Chemical*, **2018**, 263, 120-128	8.5	66
232	Engineering the Exciton Dissociation in Quantum-Confined 2D CsPbBr3 Nanosheet Films. *Advanced Functional Materials*, **2018**, 28, 1705908	15.6	77
231	Linear humidity response of carbon dot-modified molybdenum disulfide. *Physical Chemistry Chemical Physics*, **2018**, 20, 4083-4091	3.6	15
230	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. *Advanced Science*, **2018**, 5, 1700733	13.6	106
229	Novel design and performance of the solidly mounted resonator with an AlN-buffered ZnO piezoelectric film. *Vacuum*, **2018**, 154, 11-17	3.7	6
228	Microwave preparation and remarkable ethanol sensing properties of ZnO particles with controlled morphologies in water-ethylene glycol binary solvent system. *Sensors and Actuators B: Chemical*, **2018**, 255, 1006-1014	8.5	17
227	An ultrasensitive NO2 gas sensor based on a hierarchical Cu2O/CuO mesocrystal nanoflower. *Journal of Materials Chemistry A*, **2018**, 6, 17120-17131	13	92
226	Lithium‐Sulfur Batteries: 3D CNTs/Graphene-S-Al3Ni2 Cathodes for High-Sulfur-Loading and Long-Life Lithium‐Sulfur Batteries (Adv. Sci. 7/2018). *Advanced Science*, **2018**, 5, 1870043	13.6	2
225	Plasmonic and sensing properties of vertically oriented hexagonal gold nanoplates. *Nanoscale*, **2018**, 10, 15058-15070	7.7	13
224	Spray-Coated CsPbBr Quantum Dot Films for Perovskite Photodiodes. *ACS Applied Materials & Interfaces*, **2018**, 10, 26387-26395	9.5	41
223	Understanding the roles of plasmonic Au nanocrystal size, shape, aspect ratio and loading amount in Au/g-CN hybrid nanostructures for photocatalytic hydrogen generation. *Physical Chemistry Chemical Physics*, **2018**, 20, 22296-22307	3.6	41
222	Design of Hetero-Nanostructures on MoS Nanosheets To Boost NO Room-Temperature Sensing. *ACS Applied Materials & Interfaces*, **2018**, 10, 22640-22649	9.5	121
221	One-step electrodeposition of nickel cobalt sulfide nanosheets on Ni nanowire film for hybrid supercapacitor. *Electrochimica Acta*, **2018**, 259, 617-625	6.7	70
220	Controlled growth of vertically aligned ultrathin InS nanosheet arrays for photoelectrochemical water splitting. *Nanoscale*, **2018**, 10, 1153-1161	7.7	45
219	Effect of Graphene-EC on Ag NW-Based Transparent Film Heaters: Optimizing the Stability and Heat Dispersion of Films. *ACS Applied Materials & Interfaces*, **2018**, 10, 1077-1083	9.5	34
218	ZnO nanoplate clusters with numerous enlarged catalytic interface exposures via a hydrothermal method for improved and recyclable photocatalytic activity. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 1576-1583	2.1	3
217	Highly Sensitive Broadband Single-Walled Carbon Nanotube Photodetectors Enhanced by Separated Graphene Nanosheets. *Advanced Optical Materials*, **2018**, 6, 1800791	8.1	21

216	Wearable rGO-Ag NW@cotton fiber piezoresistive sensor based on the fast charge transport channel provided by Ag nanowire. *Nano Energy*, **2018**, 50, 528-535	17.1	57
215	Flexible all-inorganic photoconductor detectors based on perovskite/hole-conducting layer heterostructures. *Journal of Materials Chemistry C*, **2018**, 6, 6739-6746	7.1	29
214	Light-assisted recovery for a highly-sensitive NO2 sensor based on RGO-CeO2 hybrids. *Sensors and Actuators B: Chemical*, **2018**, 270, 119-129	8.5	54
213	Polysulfide-Scission Reagents for the Suppression of the Shuttle Effect in Lithium-Sulfur Batteries. *ACS Nano*, **2017**, 11, 2209-2218	16.7	168
212	Functionalized Boron Nitride Nanosheets/Graphene Interlayer for Fast and Long-Life Lithium□Sulfur Batteries. *Advanced Energy Materials*, **2017**, 7, 1602380	21.8	155
211	Ring Resonator-Based Optical Hydrogen Sensor. *IEEE Sensors Journal*, **2017**, 17, 2042-2047	4	10
210	In situ preparation of magnetic Ni-Au/graphene nanocomposites with electron-enhanced catalytic performance. *Journal of Alloys and Compounds*, **2017**, 706, 377-386	5.7	20
209	Analysis of synergistic effect between graphene and octahedral cuprous oxide in cuprous oxide-graphene composites and their photocatalytic application. *Journal of Alloys and Compounds*, **2017**, 712, 704-713	5.7	16
208	Highly Conductive Porous Transition Metal Dichalcogenides via Water Steam Etching for High-Performance Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 18845-18853	8.5	41
207	Microwave formation and photoluminescence mechanisms of multi-states nitrogen doped carbon dots. *Applied Surface Science*, **2017**, 422, 257-265	6.7	57
206	Enhanced NO2 sensing performance of reduced graphene oxide by in situ anchoring carbon dots. *Journal of Materials Chemistry C*, **2017**, 5, 6862-6871	7.1	66
205	Mechanical properties of atomically thin boron nitride and the role of interlayer interactions. *Nature Communications*, **2017**, 8, 15815	17.4	371
204	Studies on NH3 gas sensing by zinc oxide nanowire-reduced graphene oxide nanocomposites. *Sensors and Actuators B: Chemical*, **2017**, 252, 284-294	8.5	82
203	Selective Pd Deposition on Au Nanobipyramids and Pd Site-Dependent Plasmonic Photocatalytic Activity. *Advanced Functional Materials*, **2017**, 27, 1700016	15.6	64
202	Ultrahigh Conductive Graphene Paper Based on Ball-Milling Exfoliated Graphene. *Advanced Functional Materials*, **2017**, 27, 1700240	15.6	176
201	Three-dimensional structures of graphene/polyaniline hybrid films constructed by steamed water for high-performance supercapacitors. *Journal of Power Sources*, **2017**, 342, 1-8	8.9	123
200	Gold Nanobipyramid-Enhanced Hydrogen Sensing with Plasmon Red Shifts Reaching □140 nm at 2 vol% Hydrogen Concentration. *Advanced Optical Materials*, **2017**, 5, 1700740	8.1	28
199	Densely-stacked N-doped porous carbon monolith derived from sucrose for high-volumetric energy storages. *Electrochimica Acta*, **2017**, 251, 263-269	6.7	3

198	Cobalt Doping To Boost the Electrochemical Properties of Ni@Ni S Nanowire Films for High-Performance Supercapacitors. *ChemSusChem*, **2017**, 10, 4056-4065	8.3	51
197	Realization of Red Plasmon Shifts up to ~900 nm by AgPd-Tipping Elongated Au Nanocrystals. *Journal of the American Chemical Society*, **2017**, 139, 13837-13846	16.4	69
196	Nanocoating covalent organic frameworks on nickel nanowires for greatly enhanced-performance supercapacitors. *Nanotechnology*, **2017**, 28, 33LT01	3.4	29
195	Sandwich-Type NbS@S@I-Doped Graphene for High-Sulfur-Loaded, Ultrahigh-Rate, and Long-Life Lithium-Sulfur Batteries. *ACS Nano*, **2017**, 11, 8488-8498	16.7	141
194	Two-dimensional NiO nanosheets with enhanced room temperature NO sensing performance via Al doping. *Physical Chemistry Chemical Physics*, **2017**, 19, 19043-19049	3.6	59
193	Three-dimensional chemically reduced graphene oxide templated by silica spheres for ammonia sensing. *Sensors and Actuators B: Chemical*, **2017**, 252, 956-964	8.5	48
192	One-step synthesis of 2D C3N4-tin oxide gas sensors for enhanced acetone vapor detection. *Sensors and Actuators B: Chemical*, **2017**, 253, 641-651	8.5	52
191	Controllable Biosynthesis and Properties of Gold Nanoplates Using Yeast Extract. *Nano-Micro Letters*, **2017**, 9, 5	19.5	34
190	CdS/CdSe-sensitized solar cell based on Al-doped ZnO nanoparticles prepared by the decomposition of zinc acetate solid solution. *Solid-State Electronics*, **2017**, 127, 38-44	1.7	5
189	Rational design of sandwiched polyaniline nanotube/layered graphene/polyaniline nanotube papers for high-volumetric supercapacitors. *Chemical Engineering Journal*, **2017**, 309, 89-97	14.7	86
188	Three-dimensional conductive networks based on stacked SiO@graphene frameworks for enhanced gas sensing. *Nanoscale*, **2017**, 9, 109-118	7.7	102
187	Synthesis of CuInS2 nanowire arrays via solution transformation of Cu2S self-template for enhanced photoelectrochemical performance. *Applied Catalysis B: Environmental*, **2017**, 203, 715-724	21.8	35
186	Facile synthesis of amine-functionalized graphene quantum dots with highly pH-sensitive photoluminescence. *Fullerenes Nanotubes and Carbon Nanostructures*, **2017**, 25, 704-709	1.8	20
185	Bandgap tuning and photocatalytic activities of CuSe1−xSx nanoflakes. *Ceramics International*, **2016**, 42, 211-219	5.1	11
184	Hierarchically CuInS2 Nanosheet-Constructed Nanowire Arrays for Photoelectrochemical Water Splitting. *Advanced Materials Interfaces*, **2016**, 3, 1600494	4.6	22
183	Preparation of TiO2 nanoparticles two-dimensional photonic-crystals: a novel scattering layer of quantum dot-sensitized solar cells. *Materials Letters*, **2016**, 183, 307-310	3.3	6
182	Steamed water engineering mechanically robust graphene films for high-performance electrochemical capacitive energy storage. *Nano Energy*, **2016**, 26, 668-676	17.1	45
181	A lightweight multifunctional interlayer of sulfur–nitrogen dual-doped graphene for ultrafast, long-life lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2016**, 4, 15343-15352	13	106

180	Synthesis and optoelectronic properties of reduced graphene oxide/InP quantum dot hybrids. *RSC Advances*, **2016**, 6, 97861-97864	3.7	4
179	Three-dimensional skeleton networks of graphene wrapped polyaniline nanofibers: an excellent structure for high-performance flexible solid-state supercapacitors. *Scientific Reports*, **2016**, 6, 19777	4.9	106
178	Gold Nanobipyramid-Supported Silver Nanostructures with Narrow Plasmon Linewidths and Improved Chemical Stability. *Advanced Functional Materials*, **2016**, 26, 341-352	15.6	87
177	Neuron-Inspired Interpenetrative Network Composed of Cobalt-Phosphorus-Derived Nanoparticles Embedded within Porous Carbon Nanotubes for Efficient Hydrogen Production. *ACS Applied Materials & Interfaces*, **2016**, 8, 17284-91	9.5	10
176	Synthesis of a novel β-ketoenamine-linked conjugated microporous polymer with N H functionalized pore surface for carbon dioxide capture. *Applied Surface Science*, **2016**, 384, 539-543	6.7	18
175	Hydrothermal synthesis of porous copper microspheres towards efficient 4-nitrophenol reduction. *Materials Research Bulletin*, **2016**, 83, 329-335	5.1	15
174	In situ preparation of cubic Cu2O-RGO nanocomposites for enhanced visible-light degradation of methyl orange. *Nanotechnology*, **2016**, 27, 265703	3.4	36
173	Direct fabrication of metal-free hollow graphene balls with a self-supporting structure as efficient cathode catalysts of fuel cell. *Journal of Nanoparticle Research*, **2016**, 18, 1	2.3	8
172	Subnanometer Molybdenum Sulfide on Carbon Nanotubes as a Highly Active and Stable Electrocatalyst for Hydrogen Evolution Reaction. *ACS Applied Materials & Interfaces*, **2016**, 8, 3543-50	9.5	65
171	Hierarchically porous and heteroatom doped carbon derived from tobacco rods for supercapacitors. *Journal of Power Sources*, **2016**, 307, 391-400	8.9	374
170	Carbon quantum dots decorated Cu2S nanowire arrays for enhanced photoelectrochemical performance. *Nanoscale*, **2016**, 8, 8559-67	7.7	54
169	ZnO Nanotapered Arrays With Successively Modulated Sharpness Via a Supersaturation-Controlled Hydrothermal Reaction for Efficient Field Emitters. *IEEE Nanotechnology Magazine*, **2016**, 15, 261-267	2.6	3
168	Hierarchically porous micro/nanostructured copper surfaces with enhanced antireflection and hydrophobicity. *Applied Surface Science*, **2016**, 361, 11-17	6.7	6
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