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Hydrothermal synthesis of ZnO nanorods in the diameter regime of 50 nm

DOI: 10.1021/ja0299452

Journal of the American Chemical Society, 2003, 125, 4430-1.

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1260	An inorganic route for controlled synthesis of W18O49 nanorods and nanofibers in solution. <b>2003</b> , 42, 6169-71		102
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316	Carboxyl-assisted synthesis of Co nanorods with high energy facet on graphene oxide sheets for efficient photocatalytic hydrogen evolution. <b>2017</b> , 203, 789-797		53
315	Enhanced performance of thermal-assisted electron field emission based on barium oxide nanowire. <b>2017</b> , 396, 1108-1112		6
314	MoS <sub>2</sub> -coated ZnO nanocomposite as an active heterostructure photocatalyst for hydrogen evolution. <b>2017</b> , 137, 104-107		36
313	Enclosed hollow tubular ZnO: Controllable synthesis and their high performance cataluminescence gas sensing of H <sub>2</sub> S. <b>2017</b> , 242, 1086-1094		34
312	High-sensitivity low-power tungsten doped niobium oxide nanorods sensor for nitrogen dioxide air pollution monitoring. <b>2017</b> , 238, 204-213		14
311	Propane sensor pellets based on nanopowders Cu-doped ZnO. <b>2017</b> ,		1
310	Fabrication and characterization of VOC sensors based on suspended zinc oxide nanorods functionalized by cobalt porphyrin. <b>2017</b> ,		0
309	Annealing and Ni content effects on EPR and structural properties of Zn <sub>1-x</sub> Ni <sub>x</sub> O aerogel nanoparticles. <b>2017</b> , 35, 454-462		0
308	Ethanol gas sensor with nanotree arrays by hydrothermal method and wet etching. <b>2017</b> ,		

307	Modification of morphological and optical properties of ZnO thin film. <b>2017</b> , 3, 103-110		7
306	Green Intelligent Nanomaterials by Design (Using Nanoparticulate/2D-Materials Building Blocks) Current Developments and Future Trends. <b>2017</b> ,		1
305	Influence of Erbium Doping on Hydrothermally Synthesized ZnO Nanostructures and Their Enhanced Gas Sensing Properties. <b>2017</b> , 2,		1
304	TiO <sub>2</sub> /sulfonated graphene oxide/Ag nanoparticle membrane: In situ separation and photodegradation of oil/water emulsions. <i>Journal of Membrane Science</i> , <b>2018</b> , 554, 16-25	9.6	59
303	Enhanced acetone detection using Au doped ZnO thin film sensor. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 15315-15320	2.1	28
302	Shed light on submerged DC arc discharge synthesis of low band gap gray Zn/ZnO nanoparticles: Formation and gradual oxidation mechanism. <b>2018</b> , 29, 1246-1254		6
301	Room temperature synthesis of urea based imidazole functionalised ZnO nanorods and their photocatalytic application. <b>2018</b> , 102, 311-318		8
300	Photocatalytic degradation of caffeine as a model pharmaceutical pollutant on Mg doped ZnO-Al <sub>2</sub> O <sub>3</sub> heterostructure. <b>2018</b> , 10, 63-72		41
299	Multimetallic nanosheets: synthesis and applications in fuel cells. <b>2018</b> , 47, 6175-6200		123
298	Morphological evolution of solution-grown cobalt-doped ZnO nanostructures and their properties. <b>2018</b> , 700, 1-6		6
297	Flexible Transparent Nanogenerators Utilizing Shape-Modulated ZnO Nanorod Arrays on Graphene Electrodes. <b>2018</b> , 3, 1700355		9
296	Nanotransducers on printed circuit boards by rational design of high-density, long, thin and untapered ZnO nanowires. <b>2018</b> , 46, 54-62		19
295	Optical performance improvement in hydrothermal ZnO/graphene structures for ultraviolet lasing. <b>2018</b> , 6, 3240-3244		8
294	Photochemistry and the role of light during the submerged photosynthesis of zinc oxide nanorods. <b>2018</b> , 8, 177		13
293	UV-Induced Multilevel Current Amplification Memory Effect in Zinc Oxide Rods Resistive Switching Devices. <b>2018</b> , 28, 1706230		43
292	Surface modification of ZnO nanorods with CdS quantum dots for application in inverted organic solar cells: effect of deposition duration. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 2601-2609	2.1	2
291	Fabrication of novel ZnO nanoporous films for efficient photocatalytic applications. <b>2018</b> , 356, 340-346		6
290	Recent progress of metal-graphene nanostructures in photocatalysis. <b>2018</b> , 10, 9427-9440		71

289	Graphene/ZnO single-mode lasing. <b>2018</b> , 63, 527-528		3
288	Microstructural evolution and photoluminescence performance of nickel and chromium doped ZnO nanostructures. <b>2018</b> , 205, 9-15		8
287	Hydrothermal synthesis and characterization of ruthenium oxide nanosheets using polymer additive for supercapacitor applications. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 323-330	2.1	20
286	Effect of Magnetized Ethanol on the Shape Evolution of Zinc Oxide from Nanoparticles to Microrods: Experimental and Molecular Dynamic Simulation Study. <b>2018</b> , 29, 349-358		8
285	Epoxy/starch-modified nano-zinc oxide transparent nanocomposite coatings: A showcase of superior curing behavior. <b>2018</b> , 115, 143-150		86
284	Supported Electrospun Ultrafine Fibrous Poly(tetrafluoroethylene)/ZnO Porous Membranes and their Photocatalytic Applications. <b>2018</b> , 41, 656-662		4
283	Growth of highly porous ZnO nanostructures for carbon monoxide gas sensing. <b>2018</b> , 343, 49-56		23
282	Synthesis of ZnO nanorods by one step microwave-assisted hydrothermal route for electronic device applications. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 2927-2938	2.1	23
281	Gamma ray induced modifications in copper microwires synthesized using track-etched membrane. <b>2018</b> , 148, 239-247		23
280	. <b>2018</b> ,		6
279	NanoLubrication Systems: An Overview <b>2018</b> , 5, 20621-20630		5
278	. <b>2018</b> ,		1
277	Effects of Polyethylenimine and Its Molecular Weight on the Chemical Bath Deposition of ZnO Nanowires. <i>ACS Omega</i> , <b>2018</b> , 3, 12457-12464	3.9	10
276	Interactions between Metal Oxides and Biomolecules: from Fundamental Understanding to Applications. <b>2018</b> , 118, 11118-11193		96
275	Biomedical application and hidden toxicity of Zinc oxide nanoparticles. <b>2018</b> , 10, 175-186		56
274	Efficiency of Transition Metals at Nanoscale - as Heterogeneous Catalysts. <b>2018</b> , 311-341		
273	One-Pot Synthesis of Au Embedded ZnO Nanorods Composite Heterostructures with Excellent Photocatalytic Properties. <b>2018</b> , 3, 7882-7890		12
272	A robust superhydrophobic Zn coating with ZnO nanosheets on steel substrate and its self-cleaning property. <b>2018</b> , 666, 100-107		30



271	Influence of different substrates on ZnO nanorod arrays properties. <b>2018</b> , 85, 21-25		6
270	Enhanced field emission from copper nanowires synthesized using ion track-etch membranes as scaffolds. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 19013-19027	2.1	8
269	Synthesis and Characterization of ZnO Microfiber By Electrospinning Technique. <b>2018</b> , 5, 9860-9865		2
268	Piezoelectric Semiconducting Nanowires. <b>2018</b> , 445-478		5
267	Toxicity and uptake of nanoparticulate and bulk ZnO in nematodes with different life strategies. <b>2018</b> , 27, 1058-1068		11
266	Highly Sensitive Ethanol Chemical Sensor Based on Novel Ag-Doped Mesoporous $\alpha$ -FeO Prepared by Modified Sol-Gel Process. <b>2018</b> , 13, 157		16
265	Synthesis, characterization and photocatalytic degradation of chlorpyrifos by novel Fe: ZnO nanocomposite material. <b>2018</b> , 3, 1		32
264	Structural Chemical Modification of Semiconductor Nano-Crystals. <b>2018</b> , 1-52		1
263	Facial fabrication of hierarchical 3D Sisal-like CuO/ZnO nanocomposite and its catalytic properties. <b>2018</b> , 708, 77-80		9
262	Annealing Effects on the Structural and Optical Properties of ZnO Nanostructures. <b>2018</b> , 21,		17
261	One-Dimensional Zinc Oxide Nanomaterials for Application in High-Performance Advanced Optoelectronic Devices. <b>2018</b> , 8, 223		24
260	Facile synthesis and electrochemical properties of carbon-coated ZnO nanotubes for high-rate lithium storage. <b>2018</b> , 44, 18222-18226		10
259	Enzymes and nanoparticles: Modulation of enzymatic activity via nanoparticles. <b>2018</b> , 118, 1833-1847		73
258	Tuning the optical properties of ZnO nanorods by variation of precursor concentration through hydrothermal method. <b>2018</b> ,		3
257	Bimetallic Nanoplates and Nanosheets. <b>2018</b> , 293-313		
256	Breathable and Flexible Piezoelectric ZnO@PVDF Fibrous Nanogenerator for Wearable Applications. <b>2018</b> , 10,		56
255	Facile, seedless and surfactant-free synthesis of ZnO nanostructures by wet chemical bath method and their characterization. <i>Applied Nanoscience (Switzerland)</i> , <b>2018</b> , 8, 1823-1830	3.3	3
254	Tunable, Hybrid 1D ZnO Nanostructures Obtained by Using Bio-renewable Ferulic Acid as Support and its Applications. <b>2018</b> , 3, 6232-6241		1

253	Synthesis, characterization and efficient photocatalytic activity of novel Ca/ZnO-Al <sub>2</sub> O <sub>3</sub> nanomaterial. <b>2018</b> , 16, 194-203		15
252	Synthesis of zinc oxide microrod arrays and their performance as piezo-generators. <b>2018</b> , 33, 575-581		1
251	Influence of solution composition on sprayed ZnO nanorods properties and formation process: Thermoanalytical study of the precursors. <b>2019</b> , 45, 2887-2892		4
250	Ultrahigh photoactivity of ZnO nanoparticles for decomposition of high-concentration microcystin-LR in water environment. <i>International Journal of Environmental Science and Technology</i> , <b>2019</b> , 16, 695-706	3.3	4
249	Removal of cationic water pollutants using PEG stabilized ZnO nanoparticles under solar irradiation. <b>2019</b> ,		6
248	Metal Oxide Semiconductor-Carbon Nanomaterial Network as a Flexible Chemical Sensor for Volatile Organic Compound Detection. <b>2019</b> ,		
247	Highly efficient photocatalytic activity of stable manganese-doped zinc oxide (Mn:ZnO) nanofibers via electrospinning method. <b>2019</b> , 103, 104621		20
246	Piezotronics and Piezo-phototronics of Third Generation Semiconductor Nanowires. <b>2019</b> , 119, 9303-9359		112
245	Optical and structural studies of ZnO thin film prepared by electrodeposition method. <b>2019</b> ,		4
244	Substantial Narrowing on the Width of "Concentration Window" of Hydrothermal ZnO Nanowires via Ammonia Addition. <b>2019</b> , 9, 14160		24
243	. <b>2019</b> ,		7
242	Structural and Luminescence Properties of ZnO Nanoparticles Synthesized by Mixture of Fuel Approach in Solution Combustion Method. <b>2019</b> ,		0
241	Stronger Reductive Environment in Solvothermal Synthesis Leads to Improved Ga Doping Efficiency in ZnO Nanocrystals and Enhanced Plasmonic Absorption. <b>2019</b> , 216, 1900335		
240	Oxide Materials Preparation. <b>2019</b> , 207-228		
239	Synthesis of Morphological-Variant ZnO nanostructures. <b>2019</b> ,		
238	Enhanced electrochemical properties of manganese-based metal organic framework materials for supercapacitors. <b>2019</b> , 49, 1091-1102		1
237	Complex-surfactant-assisted hydrothermal synthesis of one-dimensional ZnO nanorods for high-performance ethanol gas sensor. <b>2019</b> , 286, 501-511		99
236	Superior positive relative humidity sensing properties of porous nanostructured Al:ZnO thin films deposited by jet-atomizer spray pyrolysis technique. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 4618-4625	2.1	7

235	Green and sonogreen synthesis of zinc oxide nanoparticles for the photocatalytic degradation of methylene blue in water. <b>2019</b> , 4, 1		13
234	Transparent metal-oxide nanowires and their applications in harsh electronics. <b>2019</b> , 7, 202-217		37
233	Low-Dimensional Metal-Organic Frameworks and their Diverse Functional Roles in Catalysis. <b>2019</b> , 11, 3138-3165		18
232	Antibacterial Application on Using Antibiotic Agent/Zinc Oxide Nanorod Arrays/Polyethylethylketone Composite Samples. <b>2019</b> , 9,		4
231	ZnO-based dye-sensitized solar cells. <b>2019</b> , 145-204		1
230	Nanostructured ZnO-based materials for biomedical and environmental applications. <b>2019</b> , 285-305		1
229	Platinum Nanostructure Tailoring for Fuel Cell Applications Using Levitated Water Droplets as Green Chemical Reactors. <b>2019</b> , 11, 22398-22407		5
228	Synthesis and Characterization of Multi-Angular Branched ZnO Microstructures and Peculiar Nanopushpins Obtained by Thermal Treatment from Compacted ZnS Powder. <b>2019</b> , 286, 23-30		
227	NiFe Alloy Nanotube Arrays as Highly Efficient Bifunctional Electrocatalysts for Overall Water Splitting at High Current Densities. <b>2019</b> , 11, 24096-24106		44
226	Water-Organic Cosolvent Effect on Nucleation of Solution-Synthesized ZnO Nanowires. <i>ACS Omega</i> , <b>2019</b> , 4, 8299-8304	3-9	9
225	Enhanced electrochemical studies of ZnO/CNT nanocomposite for supercapacitor devices. <b>2019</b> , 568, 51-59		34
224	The three-dimensional flower-like BiWO assisted by ethanolamine through a microwave method for efficient photocatalytic activity. <b>2019</b> , 6, 181422		3
223	Heterogeneous photocatalytic degradation of diuron on zinc oxide: Influence of surface-dependent adsorption on kinetics, degradation pathway, and toxicity of intermediates. <b>2019</b> , 84, 97-111		22
222	Carbon-decorated flower-like ZnO as high-performance anode materials for Li-ion batteries. <b>2019</b> , 25, 4129-4136		8
221	In situ grown silver bismuth sulfide nanorod arrays and their application to solar cells. <b>2019</b> , 21, 3137-3141		7
220	Modifier-free fabrication of durable superhydrophobic electrodeposited Cu-Zn coating on steel substrate with self-cleaning, anti-corrosion and anti-scaling properties. <b>2019</b> , 481, 872-882		54
219	Fiber-guided and particle-localized microwave absorption of nanoscale CoFe <sub>2</sub> O <sub>4</sub> derived from citric acid-based precursor. <b>2019</b> , 561, 16-22		11
218	ZnO-based photodetector: from photon detector to pyro-phototronic effect enhanced detector. <b>2019</b> , 52, 223001		32

217	In Situ Observation of Current Generation in ZnO Nanowire Based Nanogenerators Using a CAFM Integrated into an SEM. <b>2019</b> , 11, 15183-15188		11
216	Electrochemical sensing of H <sub>2</sub> O <sub>2</sub> released from living cells based on AuPd alloy-modified PDA nanotubes. <b>2019</b> , 11, 1651-1656		17
215	Paper-Based Nanoplatfoms for Multifunctional Applications. <b>2019</b> , 2019, 1-16		15
214	Sucrose-Mediated Fast Synthesis of Zinc Oxide Nanoparticles for the Photocatalytic Degradation of Organic Pollutants in Water. <i>ACS Omega</i> , <b>2019</b> , 4, 6560-6572	3.9	28
213	Effect of loading and standby time of the organic dye N719 on the photovoltaic performance of ZnO based DSSC. <b>2019</b> , 1189, 181-186		20
212	Zinc oxide ultraviolet photodetectors: rapid progress from conventional to self-powered photodetectors. <b>2019</b> , 1, 2059-2085		121
211	Nanoparticle-assisted optical sensor for clinical diagnosis of tuberculosis. <b>2019</b> , 147, 941-947		4
210	Charge transfer-induced photoluminescence in ZnO nanoparticles. <b>2019</b> , 11, 8736-8743		26
209	Amino Acid-Assisted Construction of Single-Crystalline Hierarchical Nanozeolites via Oriented-Aggregation and Intraparticle Ripening. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 3772-3776	16.4	67
208	Application of N-doped ZnO Nanorods in Heterojunction Si Solar Cells. <b>2019</b> , 361-366		
207	Enhanced antifouling and anticoagulant properties of grafted biomolecule polyethersulfone membranes. <b>2019</b> , 30, 1493-1505		6
206	Preparation of ZnO-MWCNTS nanocomposite: structural features and applications for enhanced oil recovery. <b>2019</b> , 22, 488		
205	Cellular Stemness Maintenance of Human Adipose-Derived Stem Cells on ZnO Nanorod Arrays. <b>2019</b> , 15, e1904099		15
204	Nanosheet and nanosphere morphology dominated photocatalytic & antibacterial properties of ZnO nanostructures. <b>2019</b> , 89, 1-14		26
203	Synthesis and characterization of zinc oxide nanoparticles by using polyol chemistry for their antimicrobial and antibiofilm activity. <b>2019</b> , 17, 71-80		83
202	Mechanochemically modified hydrazine reduction method for the synthesis of nickel nanoparticles and their catalytic activities in the Suzuki-Miyaura cross-coupling reaction. <b>2019</b> , 126, 857-868		5
201	Design and realization of light absorbers using plasmonic nanoparticles. <b>2019</b> , 63, 1-22		17
200	ZnO@ZIF-8 core-shell microspheres for improved ethanol gas sensing. <b>2019</b> , 284, 421-427		70

199	Flexible Li-doped ZnO piezotronic transistor array for in-plane strain mapping. <b>2019</b> , 55, 341-347		17
198	Preparation of ZnWO/TiO composite film and its photocathodic protection for 304 stainless steel under visible light. <b>2019</b> , 30, 045710		9
197	Synthesis and characterization of aligned ZnO nanorods for visible light photocatalysis. <b>2019</b> , 107, 38-46		35
196	Optoelectronic attenuation behavior of Al <sub>2</sub> O <sub>3</sub> /ZnO nanolaminates grown by Atomic Layer Deposition. <b>2019</b> , 669, 419-424		10
195	Nonlinear optical response of ZnO/HfO <sub>2</sub> core/shell nanorod arrays under continuous wave laser irradiation. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 797-805	2.1	1
194	Optimizing electrospinning-hydrothermal hybrid process based on Taguchi method for modulation of point defects in ZnO micro/nano arrays towards photoelectronic application. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 779, 167-174	5.7	5
193	A highly efficient reduced graphene oxide/SnO <sub>2</sub> /TiO <sub>2</sub> composite as photoanode for photocathodic protection of 304 stainless steel. <b>2019</b> , 113, 6-13		16
192	Novel Ag-ZnO-La <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> photocatalysts derived from the Layered Double Hydroxide structure with excellent photocatalytic performance for the degradation of pharmaceutical compounds. <b>2019</b> , 4, 34-46		9
191	Length-Dependent Electronic Transport Properties of the ZnO Nanorod. <b>2018</b> , 10,		1
190	Enhanced NO <sub>2</sub> sensing aptness of ZnO nanowire/CuO nanoparticle heterostructure-based gas sensors. <b>2019</b> , 45, 1513-1522		58
189	Effects of annealing temperature on the electrochemical characteristics of ZnO microrods as anode materials of lithium-ion battery using chemical bath deposition. <b>2019</b> , 25, 457-466		7
188	Silicone/ZnO nanorod composite coating as a marine antifouling surface. <b>2019</b> , 466, 40-50		52
187	Prototype of energy harvesting door handles using polymer nanocomposite. <i>Applied Nanoscience (Switzerland)</i> , <b>2020</b> , 10, 1-13	3.3	17
186	Ultrasound-assisted synthesis of 3D flower-like zinc oxide decorated fMWCNTs for sensitive detection of toxic environmental pollutant 4-nitrophenol. <b>2020</b> , 60, 104798		26
185	Green Materials for Wastewater Treatment. <i>Environmental Chemistry for A Sustainable World</i> , <b>2020</b> ,	0.8	4
184	Adsorptive Removal of Toxic Dyes Using Chitosan and Its Composites. <i>Environmental Chemistry for A Sustainable World</i> , <b>2020</b> , 223-255	0.8	3
183	Enhanced relative humidity sensing property of porous Al:ZnO thin films. <b>2020</b> , 26, 138-141		
182	Fabrication of arrangement-controlled and vertically grown ZnO nanorods by metal nanotransfer printing. <b>2020</b> , 81, 385-392		3

181	One- and two-dimensional metal oxide nanostructures for chemical sensing. <b>2020</b> , 161-184	2
180	Piezopotential gated two-dimensional InSe field-effect transistor for designing a pressure sensor based on piezotronic effect. <b>2020</b> , 70, 104457	16
179	Synthesis of Monodispersedly Sized ZnO Nanowires from Randomly Sized Seeds. <b>2020</b> , 20, 599-605	23
178	Both slender pillars and hierarchical structures achieving superhydrophobicity and the comparison of their properties. <b>2020</b> , 505, 144524	14
177	Carbon Nano-Onion and Zinc Oxide Composites as an Electron Transport Layer in Inverted Organic Solar Cells. <b>2020</b> , 6, 248-257	2
176	A new electrochemical sensor for simultaneous detection of sulfamethoxazole and trimethoprim antibiotics based on graphene and ZnO nanorods modified glassy carbon electrode. <b>2020</b> , 159, 105440	23
175	Tailored piezoelectric performance of self-polarized PVDF-ZnO composites by optimization of aspect ratio of ZnO nanorods. <b>2020</b> , 41, 3351-3363	8
174	Development of oxygen vacancies and surface defects in Mn-doped ZnO nanoflowers for enhancing visible light photocatalytic activity. <b>2020</b> , 2, 1	8
173	Comparative study of ZnO thin film samples prepared by two different chemical bath methods. <b>2020</b> ,	
172	Zinc oxide nanostructures: A motivated dynamism against cancer cells. <b>2020</b> , 98, 83-92	7
171	Organophilicity of Graphene Oxide for Enhanced Wettability of ZnO Nanorods. <b>2020</b> , 12, 39772-39780	2
170	Characteristics of Electron Transport Study of Compositied Graphene-Zinc Oxide Thin Film Photoanode for Dye-Sensitized Solar Cells. <b>2020</b> , 307, 185-191	1
169	Electrowetting-on-dielectric characteristics of ZnO nanorods. <b>2020</b> , 10, 14194	7
168	Curcumin loaded zinc oxide nanoparticles for activity-enhanced antibacterial and anticancer applications.. <b>2020</b> , 10, 30785-30795	28
167	Ag doped ZnO nanorods catalyzed photo-triggered synthesis of some novel (1H-tetrazol-5-yl)-coumarin hybrids. <b>2020</b> , 919, 121320	14
166	Interlayer effect on photoluminescence enhancement and band gap modulation in Ga-doped ZnO thin films. <b>2020</b> , 144, 106576	10
165	Anti-Reflective Coating Materials: A Holistic Review from PV Perspective. <b>2020</b> , 13, 2631	35
164	MIL-53(Al)/ZnO coated plates with high photocatalytic activity for extended degradation of trimethoprim via novel photocatalytic reactor. <b>2020</b> , 249, 117173	28

163	Synthesis of highly oriented WO <sub>3</sub> nanowire bundles decorated with Au for gas sensing application. <b>2020</b> , 321, 128439	27
162	Optical properties of zigzag and armchair ZnO nanoribbons. <b>2020</b> , 124, 114218	1
161	Sulfidation of sea urchin-like zinc oxide nanospheres: Kinetics, mechanisms, and impacts on growth of Escherichia coli. <b>2020</b> , 741, 140415	3
160	Nanocomposites of ZnO Nanorods In-Situ Grown on Graphitic Carbon Nitride for Ethanol Sensing. <b>2020</b> , 20, 11097-11104	3
159	Effects of catalyst surfaces on adsorption revealed by atomic force microscope force spectroscopy: photocatalytic degradation of diuron over zinc oxide. <b>2020</b> , 22, 15035-15047	1
158	PERFORMANCE OF pH SENSOR ELECTRODE BASED ON ZnO NRs ON FTO-GLASS SUBSTRATE. <b>2020</b> , 27, 1950198	
157	Preparation of Bi-based photocatalysts in the form of powdered particles and thin films: a review. <b>2020</b> , 8, 15302-15318	38
156	Fabrication of Lettuce-Like ZnO Gas Sensor with Enhanced H <sub>2</sub> S Gas Sensitivity. <b>2020</b> , 10, 145	12
155	Recent developments in nanostructured metal oxide-based electrochemical sensors. <b>2020</b> , 123-134	
154	Droplet-oriented construction of porous metal oxide hollow microspheres and their assembly into superstructures. <b>2020</b> , 44, 12978-12984	
153	ZnO Nanorod FET Biosensors With Enhanced Sensing Performance: Design Issues for Rational Geometry Selection. <b>2020</b> , 20, 13451-13460	3
152	ZnO Nano-Particles Production Intensification by Means of a Spinning Disk Reactor. <b>2020</b> , 10,	7
151	Zinc Oxide @ Silica Core/Shell Microspheres for Single-Molecule Force Microscopy in Aqueous and Nonaqueous Solvents. <b>2020</b> , 124, 5789-5795	2
150	Study of structural, optical and electrochemical properties of ZnO nanostructures and ZnO-PANI nanocomposites. <b>2020</b> , 7, 025024	4
149	Surfactant and catalyst free facile synthesis of Al-doped ZnO nanorods [An approach towards fabrication of single nanorod electrical devices. <b>2020</b> , 512, 145732	14
148	Epsilon-near-zero response in indium tin oxide thin films: Octave span tuning and IR plasmonics. <b>2020</b> , 127, 043102	11
147	Facile synthesis of ZnO microrod photodetectors by solid-state reaction. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 825, 154110	5-7 6
146	Enhanced Piezo-Photoelectric Catalysis with Oriented Carrier Migration in Asymmetric Au-ZnO Nanorod Array. <b>2020</b> , 16, e1907603	61

145	High-performance Sb-doped p-ZnO NW films for self-powered piezoelectric strain sensors. <b>2020</b> , 73, 104744		19
144	ZnO nanorod-coated tapered plastic fiber sensors for relative humidity. <b>2020</b> , 473, 125924		7
143	An overall review on the tribological, thermal and rheological properties of nanolubricants. <b>2021</b> , 15, 20-54		14
142	An antimicrobial bio-based polymer foam from ZnO-stabilised pickering emulsion templated polymerisation. <b>2021</b> , 56, 1643-1657		3
141	Metformin-Templated Nanoporous ZnO and Covalent Organic Framework Heterojunction Photoanode for Photoelectrochemical Water Oxidation. <b>2021</b> , 14, 408-416		20
140	The effect of activated carbon additives on lead sulphide thin film for solar cell applications. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 864, 158117	5.7	1
139	Fabrication of superhydrophobic PDTS-ZnO-PVDF membrane and its anti-wetting analysis in direct contact membrane distillation (DCMD) applications. <i>Journal of Membrane Science</i> , <b>2021</b> , 620, 118924	9.6	14
138	Chemical transformations of nanoscale zinc oxide in simulated sweat and its impact on the antibacterial efficacy. <b>2021</b> , 410, 124568		5
137	Recent advances and perspective on heterogeneous catalysis using metals and oxide nanocrystals. <b>2021</b> , 5, 151-222		7
136	Fabrication of (Y <sub>2</sub> O <sub>3</sub> ) <sub>n</sub> ZnO nanocomposites by high-energy milling as potential photocatalysts. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 3415-3430	2.1	3
135	Study on the Characteristics of Zinc Oxide Nanocolloid Prepared Using Electrical Spark Discharge Method. 1		0
134	Effect of synthetic route on morphology of zinc oxide and cadmium doped zinc oxide nanomaterials. <b>2021</b> ,		1
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