

Cao Bingqiang

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203
papers

9,152
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55
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89
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211
ext. papers

10,505
ext. citations

6
avg, IF

6.34
L-index

#	Paper	IF	Citations
203	Zinc oxide nanorod based photonic devices: recent progress in growth, light emitting diodes and lasers. <i>Nanotechnology</i> , 2009 , 20, 332001	3.4	503
202	Oxygen-Vacancy Abundant Ultrafine CoO/Graphene Composites for High-Rate Supercapacitor Electrodes. <i>Advanced Science</i> , 2018 , 5, 1700659	13.6	274
201	Temperature-dependent shifts of three emission bands for ZnO nanoneedle arrays. <i>Applied Physics Letters</i> , 2006 , 88, 161101	3.4	264
200	From unstable CsSnI ₃ to air-stable Cs ₂ SnI ₆ : A lead-free perovskite solar cell light absorber with bandgap of 1.48 eV and high absorption coefficient. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 159, 227-234	6.4	258
199	High-performance gas sensor based on ZnO nanowires functionalized by Au nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2014 , 199, 339-345	8.5	221
198	From ZnO Nanorods to Nanoplates: Chemical Bath Deposition Growth and Surface-Related Emissions. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 680-685	3.8	204
197	Near Room Temperature, Fast-Response, and Highly Sensitive Triethylamine Sensor Assembled with Au-Loaded ZnO/SnO ₂ Core-Shell Nanorods on Flat Alumina Substrates. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 19163-71	9.5	191
196	Whispering gallery mode lasing in zinc oxide microwires. <i>Applied Physics Letters</i> , 2008 , 92, 241102	3.4	178
195	Mass Synthesis of Large, Single-Crystal Au Nanosheets Based on a Polyol Process. <i>Advanced Functional Materials</i> , 2006 , 16, 83-90	15.6	176
194	Highly sensitive and selective triethylamine-sensing properties of nanosheets directly grown on ceramic tube by forming NiO/ZnO PN heterojunction. <i>Sensors and Actuators B: Chemical</i> , 2014 , 200, 288-296	8.5	171
193	High triethylamine-sensing properties of NiO/SnO ₂ hollow sphere PN heterojunction sensors. <i>Sensors and Actuators B: Chemical</i> , 2015 , 215, 39-44	8.5	168
192	Superhydrophobicity of 2D ZnO ordered pore arrays formed by solution-dipping template method. <i>Journal of Colloid and Interface Science</i> , 2005 , 287, 634-9	9.3	163
191	The tribology properties of alumina/silica composite nanoparticles as lubricant additives. <i>Applied Surface Science</i> , 2011 , 257, 5720-5725	6.7	150
190	Two-dimensional hierarchical porous silica film and its tunable superhydrophobicity. <i>Nanotechnology</i> , 2006 , 17, 238-243	3.4	141
189	Reactive-template fabrication of porous SnO ₂ nanotubes and their remarkable gas-sensing performance. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 7893-8	9.5	140
188	Microstructure control of Zn/ZnO core/shell nanoparticles and their temperature-dependent blue emissions. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 14311-7	3.4	133
187	Different ZnO Nanostructures Fabricated by a Seed-Layer Assisted Electrochemical Route and Their Photoluminescence and Field Emission Properties. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 2470-2476	3.8	129

186	Morphology-Controlled Growth of Large-Area Two-Dimensional Ordered Pore Arrays. <i>Advanced Functional Materials</i> , 2004 , 14, 283-288	15.6	125
185	One-pot synthesis of Au-supported ZnO nanoplates with enhanced gas sensor performance. <i>Sensors and Actuators B: Chemical</i> , 2012 , 169, 61-66	8.5	123
184	Photovoltaic Efficiency Enhancement of Cu ₂ O Solar Cells Achieved by Controlling Homojunction Orientation and Surface Microstructure. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 10510-10515	3.8	123
183	Ultraviolet-light-emitting ZnO nanosheets prepared by a chemical bath deposition method. <i>Nanotechnology</i> , 2005 , 16, 1734-1738	3.4	116
182	Fully indium-free flexible Ag nanowires/ZnO:F composite transparent conductive electrodes with high haze. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 5375-5384	13	112
181	A template-free electrochemical deposition route to ZnO nanoneedle arrays and their optical and field emission properties. <i>Nanotechnology</i> , 2005 , 16, 2567-2574	3.4	111
180	Near room-temperature triethylamine sensor constructed with CuO/ZnO P-N heterostructural nanorods directly on flat electrode. <i>Sensors and Actuators B: Chemical</i> , 2016 , 225, 16-23	8.5	110
179	Au nanoparticle-functionalized 3D SnO ₂ microstructures for high performance gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2016 , 226, 266-272	8.5	106
178	Superior triethylamine-sensing properties based on TiO ₂ /SnO ₂ n/n heterojunction nanosheets directly grown on ceramic tubes. <i>Sensors and Actuators B: Chemical</i> , 2016 , 228, 634-642	8.5	104
177	Morphology evolution and photoluminescence properties of ZnO films electrochemically deposited on conductive glass substrates. <i>Journal of Applied Physics</i> , 2006 , 99, 073516	2.5	103
176	Single Crystal Perovskite Solar Cells: Development and Perspectives. <i>Advanced Functional Materials</i> , 2020 , 30, 1905021	15.6	100
175	Lead-free mesoscopic Cs ₂ SnI ₆ perovskite solar cells using different nanostructured ZnO nanorods as electron transport layers. <i>Physica Status Solidi - Rapid Research Letters</i> , 2016 , 10, 587-591	2.5	96
174	Phosphorus acceptor doped ZnO nanowires prepared by pulsed-laser deposition. <i>Nanotechnology</i> , 2007 , 18, 455707	3.4	96
173	Morphology Control and Transferability of Ordered Through-Pore Arrays Based on the Electrodeposition of a Colloidal Monolayer. <i>Advanced Materials</i> , 2004 , 16, 1116-1121	24	93
172	Enhanced physical properties of pulsed laser deposited NiO films via annealing and lithium doping for improving perovskite solar cell efficiency. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 7084-7094	7.1	92
171	Morphology-modulation of SnO ₂ hierarchical architectures by Zn doping for glycol gas sensing and photocatalytic applications. <i>Scientific Reports</i> , 2015 , 5, 7874	4.9	92
170	Near-Infrared Plasmonic 2D Semimetals for Applications in Communication and Biology. <i>Advanced Functional Materials</i> , 2016 , 26, 1793-1802	15.6	88
169	Surface optical phonon Raman scattering in Zn _{1-x} Mg _x O core-shell structured nanoparticles. <i>Applied Physics Letters</i> , 2006 , 88, 181905	3.4	82

168	Synthesis of monodispersed ZnAl ₂ O ₄ nanoparticles and their tribology properties as lubricant additives. <i>Materials Research Bulletin</i> , 2012 , 47, 4305-4310	5.1	81
167	NO ₂ gas sensing with SnO ₂ /nO/PANI composite thick film fabricated from porous nanosolid. <i>Sensors and Actuators B: Chemical</i> , 2013 , 176, 166-173	8.5	80
166	Origin of Blue Emission from Silicon Nanoparticles: Direct Transition and Interface Recombination. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 21056-21062	3.8	79
165	Enhanced triethylamine sensing properties by designing Au@SnO ₂ /MoS ₂ nanostructure directly on alumina tubes. <i>Sensors and Actuators B: Chemical</i> , 2017 , 253, 97-107	8.5	78
164	Direct hydrothermal growth of ZnO nanosheets on electrode for ethanol sensing. <i>Sensors and Actuators B: Chemical</i> , 2014 , 201, 444-451	8.5	77
163	Friction and wear properties of ZrO ₂ /SiO ₂ composite nanoparticles. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 2129-2137	2.3	76
162	Ultrafast ammonia-driven, microwave-assisted synthesis of nitrogen-doped graphene quantum dots and their optical properties. <i>Nanophotonics</i> , 2017 , 6, 259-267	6.3	74
161	Enhanced triethylamine sensing properties by fabricating Au@SnO ₂ /Fe ₂ O ₃ core-shell nanoneedles directly on alumina tubes. <i>Sensors and Actuators B: Chemical</i> , 2018 , 262, 70-78	8.5	68
160	Whispering gallery modes in zinc oxide micro- and nanowires. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 1282-1293	1.3	66
159	Large-Scale Fabrication of Three-Dimensional Surface Patterns Using Template-Defined Electrochemical Deposition. <i>Advanced Functional Materials</i> , 2013 , 23, 720-730	15.6	65
158	Morphology Evolution and CL Property of Ni-Doped Zinc Oxide Nanostructures with Room-Temperature Ferromagnetism. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 4381-4385	3.8	65
157	Growth of ZnO Nanoneedle Arrays with Strong Ultraviolet Emissions by an Electrochemical Deposition Method. <i>Crystal Growth and Design</i> , 2006 , 6, 1091-1095	3.5	64
156	Zinc as a New Dopant for NiO _x -Based Planar Perovskite Solar Cells with Stable Efficiency near 20%. <i>ACS Applied Energy Materials</i> , 2018 , 1, 3947-3954	6.1	62
155	FeO Nanozymes with Aptamer-Tuned Catalysis for Selective Colorimetric Analysis of ATP in Blood. <i>Analytical Chemistry</i> , 2019 , 91, 14737-14742	7.8	62
154	Three kinds of Cu ₂ O/ZnO heterostructure solar cells fabricated with electrochemical deposition and their structure-related photovoltaic properties. <i>CrystEngComm</i> , 2011 , 13, 6065	3.3	61
153	Transferable ordered ni hollow sphere arrays induced by electrodeposition on colloidal monolayer. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 7184-8	3.4	61
152	Fabrication and characterization of beaded SiC quantum rings with anomalous red spectral shift. <i>Advanced Materials</i> , 2012 , 24, 5598-603	24	59
151	Improving the triethylamine sensing performance based on debye length: A case study on Fe ₂ O ₃ @NiO(CuO) core-shell nanorods sensor working at near room-temperature. <i>Sensors and Actuators B: Chemical</i> , 2017 , 245, 375-385	8.5	58

150	ZnFe ₂ O ₄ nanoparticles-cotton derived hierarchical porous active carbon fibers for high rate-capability supercapacitor electrodes. <i>Carbon</i> , 2018 , 134, 15-21	10.4	57
149	Monolithic perovskite/Si tandem solar cells exceeding 22% efficiency via optimizing top cell absorber. <i>Nano Energy</i> , 2018 , 53, 798-807	17.1	56
148	ZnO Nanowalls Grown with High-Pressure PLD and Their Applications as Field Emitters and UV Detectors. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 10975-10980	3.8	55
147	Low-working-temperature, fast-response-speed NO ₂ sensor with nanoporous-SnO ₂ /polyaniline double-layered film. <i>Sensors and Actuators B: Chemical</i> , 2016 , 224, 654-660	8.5	54
146	Fabrication of large-scale zinc oxide ordered pore arrays with controllable morphology. <i>Chemical Communications</i> , 2004 , 1604-5	5.8	53
145	Electrochemical Deposition of ZnO Nanowire Arrays: Organization, Doping, and Properties. <i>Science of Advanced Materials</i> , 2010 , 2, 336-358	2.3	53
144	Effect of deposition temperature on transparent conductive properties of ECuI film prepared by vacuum thermal evaporation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015 , 212, 1466-1470	1.6	50
143	Highly sensitive gold-decorated zinc oxide nanorods sensor for triethylamine working at near room temperature. <i>Journal of Colloid and Interface Science</i> , 2017 , 499, 67-75	9.3	47
142	High-sensitivity, high-selectivity, and fast-recovery-speed triethylamine sensor based on ZnO micropyramids prepared by molten salt growth method. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 2930-2936	5.7	47
141	Room-temperature, high selectivity and low-ppm-level triethylamine sensor assembled with Au decahedrons-decorated porous Fe ₂ O ₃ nanorods directly grown on flat substrate. <i>Sensors and Actuators B: Chemical</i> , 2018 , 268, 170-181	8.5	47
140	Submicron-Lubricant Based on Crystallized Fe ₃ O ₄ Spheres for Enhanced Tribology Performance. <i>Chemistry of Materials</i> , 2014 , 26, 5113-5119	9.6	45
139	Enhanced triethylamine sensing performance of Fe ₂ O ₃ nanoparticle/ZnO nanorod heterostructures. <i>Sensors and Actuators B: Chemical</i> , 2019 , 298, 126917	8.5	44
138	Morphology-controlled 2D ordered arrays by heating-induced deformation of 2D colloidal monolayer. <i>Journal of Materials Chemistry</i> , 2006 , 16, 609-612		41
137	Reactive template synthesis of polypyrrole nanotubes for fabricating metal/conducting polymer nanocomposites. <i>Macromolecular Rapid Communications</i> , 2013 , 34, 528-32	4.8	40
136	SnO ₂ nanotube arrays grown via an in situ template-etching strategy for effective and stable perovskite solar cells. <i>Chemical Engineering Journal</i> , 2017 , 325, 378-385	14.7	39
135	ZnO photoanodes with different morphologies grown by electrochemical deposition and their dye-sensitized solar cell properties. <i>Ceramics International</i> , 2014 , 40, 7965-7970	5.1	39
134	Three-dimensional SnO ₂ microstructures assembled by porous nanosheets and their superior performance for gas sensing. <i>Powder Technology</i> , 2013 , 250, 40-45	5.2	39
133	Homogeneous core/shell ZnO/ZnMgO quantum well heterostructures on vertical ZnO nanowires. <i>Nanotechnology</i> , 2009 , 20, 305701	3.4	39

132	Self-organized growth of ZnO-based nano- and microstructures. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 1265-1281	1.3	38
131	Laser-induced reshaping of particles aiming at energy-saving applications. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15947		37
130	Laser induced oxygen-deficient TiO ₂ /graphene hybrid for high-performance supercapacitor. <i>Journal of Power Sources</i> , 2019 , 431, 220-225	8.9	36
129	Controllable ZnFe ₂ O ₄ /reduced graphene oxide hybrid for high-performance supercapacitor electrode. <i>Electrochimica Acta</i> , 2018 , 268, 20-26	6.7	36
128	Spatial fluctuations of optical emission from single ZnO/MgZnO nanowire quantum wells. <i>Nanotechnology</i> , 2008 , 19, 115202	3.4	36
127	Reversible Band Gap Narrowing of Sn-Based Hybrid Perovskite Single Crystal with Excellent Phase Stability. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 14868-14872	16.4	35
126	Engineering Two-Dimensional Pd Nanoplates with Exposed Highly Active {100} Facets Toward Colorimetric Acid Phosphatase Detection. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47564-47570	9.5	34
125	Tellurium-Based Double Perovskites A ₂ TeX ₆ with Tunable Band Gap and Long Carrier Diffusion Length for Optoelectronic Applications. <i>ACS Energy Letters</i> , 2019 , 4, 228-234	20.1	34
124	Mono-dispersed Ag/Graphene nanocomposite as lubricant additive to reduce friction and wear. <i>Tribology International</i> , 2020 , 146, 106228	4.9	33
123	Microwave hydrothermal synthesis of nanoporous cobalt oxides and their gas sensing properties. <i>Materials Research Bulletin</i> , 2011 , 46, 1097-1101	5.1	32
122	Perovskite films grown with green mixed anti-solvent for highly efficient solar cells with enhanced stability. <i>Solar Energy</i> , 2019 , 181, 285-292	6.8	30
121	Flexible and Biocompatibility Power Source for Electronics: A Cellulose Paper Based Hole-Transport-Materials-Free Perovskite Solar Cell. <i>Solar Rrl</i> , 2018 , 2, 1800175	7.1	28
120	Structure and thermal stability of gold nanoplates. <i>Applied Physics Letters</i> , 2006 , 88, 071904	3.4	28
119	Enhanced Triethylamine Sensing Properties by Designing an Fe ₂ O ₃ /MoO ₃ Nanostructure Directly Grown on Ceramic Tubes. <i>ACS Applied Nano Materials</i> , 2019 , 2, 6715-6725	5.6	27
118	A Review of Redox Electrolytes for Supercapacitors. <i>Frontiers in Chemistry</i> , 2020 , 8, 413	5	26
117	Efficient Laser-Induced Construction of Oxygen-Vacancy Abundant Nano-ZnCo O /Porous Reduced Graphene Oxide Hybrids toward Exceptional Capacitive Lithium Storage. <i>Small</i> , 2020 , 16, e2001526	11	26
116	Sodium-Doped ZnO Nanowires Grown by High-pressure PLD and their Acceptor-Related Optical Properties. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 2177-2184	3.8	26
115	Electrodeposition-Induced Highly Oriented Zinc Oxide Ordered Pore Arrays and Their Ultraviolet Emissions. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, G237		26

114	A novel hetero-structure sensor based on Au/Mg-doped TiO ₂ /SnO ₂ nanosheets directly grown on Al ₂ O ₃ ceramic tubes. <i>Sensors and Actuators B: Chemical</i> , 2018 , 273, 328-335	8.5	26
113	Smooth and solid WS ₂ submicrospheres grown by a new laser fragmentation and reshaping process with enhanced tribological properties. <i>Chemical Communications</i> , 2016 , 52, 10147-50	5.8	25
112	Fabrication of the periodic nanopillar arrays by heat-induced deformation of 2D polymer colloidal monolayer. <i>Polymer</i> , 2005 , 46, 12033-12036	3.9	25
111	Rod-like porous CoMoO ₄ @C as excellent anode for high performance lithium ion battery. <i>Journal of Alloys and Compounds</i> , 2019 , 790, 891-899	5.7	24
110	Template-directed dewetting of a gold membrane to fabricate highly SERS-active substrates. <i>Journal of Materials Chemistry</i> , 2011 , 21, 14031		24
109	3D hierarchical Co ₃ O ₄ microspheres with enhanced lithium-ion battery performance. <i>RSC Advances</i> , 2015 , 5, 61631-61638	3.7	23
108	Combustion procedure deposited SnO ₂ electron transport layers for high efficient perovskite solar cells. <i>Journal of Alloys and Compounds</i> , 2020 , 844, 156032	5.7	23
107	Electrospun ZnFe ₂ O ₄ /carbon nanofibers as high-rate supercapacitor electrodes. <i>Journal of Power Sources</i> , 2020 , 469, 228416	8.9	23
106	Tuning the lateral density of ZnO nanowire arrays and its application as physical templates for radial nanowire heterostructures. <i>Journal of Materials Chemistry</i> , 2010 , 20, 3848		23
105	Temperature-Dependent Emission Shifts of Peanutlike ZnO Microrods Synthesized by a Hydrothermal Method. <i>Crystal Growth and Design</i> , 2007 , 7, 1686-1689	3.5	23
104	Oxygen influencing the photocarriers lifetime of CH ₃ NH ₃ PbI _{3-x} Cl _x film grown by two-step interdiffusion method and its photovoltaic performance. <i>Applied Physics Letters</i> , 2016 , 108, 033904	3.4	23
103	Construction of hollow Co ₃ O ₄ cubes as a high-performance anode for lithium ion batteries. <i>New Journal of Chemistry</i> , 2017 , 41, 7960-7965	3.6	22
102	Efficient and stable planar perovskite solar cells with carbon quantum dots-doped PCBM electron transport layer. <i>New Journal of Chemistry</i> , 2019 , 43, 7130-7135	3.6	22
101	Two-dimensional porous Co ₃ O ₄ nanosheets for high-performance lithium ion batteries. <i>New Journal of Chemistry</i> , 2017 , 41, 15283-15288	3.6	22
100	Thermoelectric optimization of AgBiSe ₂ by defect engineering for room-temperature applications. <i>Physical Review B</i> , 2019 , 99,	3.3	21
99	Engineering anatase hierarchically cactus-like TiO arrays for photoelectrochemical and visualized sensing platform. <i>Biosensors and Bioelectronics</i> , 2017 , 90, 336-342	11.8	20
98	Sealing the domain boundaries and defects passivation by Poly(acrylic acid) for scalable blading of efficient perovskite solar cells. <i>Journal of Power Sources</i> , 2019 , 426, 188-196	8.9	20
97	Stable CsPbBr ₃ : and Cs ₄ PbBr ₆ : CoreShell Quantum Dots with Tunable Color Emission for Light-Emitting Diodes. <i>ACS Applied Nano Materials</i> , 2020 , 3, 3019-3027	5.6	20

96	Preparation of defective ZnFe ₂ O ₄ /graphene composites and their charge storage properties. <i>Electrochemistry Communications</i> , 2018 , 92, 19-23	5.1	20
95	Doping Nitrogen into Q-Graphene by Plasma Treatment toward Peroxidase Mimics with Enhanced Catalysis. <i>Analytical Chemistry</i> , 2020 , 92, 5152-5157	7.8	19
94	Two-dimensional ordered polymer hollow sphere and convex structure arrays based on monolayer pore films. <i>Journal of Materials Research</i> , 2005 , 20, 338-343	2.5	19
93	Double-activated porous carbons for high-performance supercapacitor electrodes. <i>Rare Metals</i> , 2017 , 36, 449-456	5.5	18
92	The Influence of Physical Properties of ZnO Films on the Efficiency of Planar ZnO/Perovskite/P3HT Solar Cell. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 176-184	3.8	18
91	Corncob cellulose-derived hierarchical porous carbon for high performance supercapacitors. <i>Journal of Power Sources</i> , 2021 , 484, 229221	8.9	18
90	Facile fabrication of porous NiMoO ₄ @C nanowire as high performance anode material for lithium ion batteries. <i>Ceramics International</i> , 2019 , 45, 18462-18470	5.1	17
89	Enhanced tribology properties of ZnO/Al ₂ O ₃ composite nanoparticles as liquid lubricating additives. <i>Journal of Sol-Gel Science and Technology</i> , 2012 , 61, 501-508	2.3	17
88	Stable p-type ZnO:P nanowire/n-type ZnO:Ga film junctions, reproducibly grown by two-step pulsed laser deposition. <i>Journal of Vacuum Science & Technology B</i> , 2009 , 27, 1693		17
87	Colorimetric determination of the activity of alkaline phosphatase by exploiting the oxidase-like activity of palladium cube@CeO core-shell nanoparticles. <i>Mikrochimica Acta</i> , 2020 , 187, 115	5.8	17
86	Oxygen-deficient BiFeO ₃ -NC nanoflake anodes for flexible battery-supercapacitor hybrid devices with high voltage and long-term stability. <i>Chemical Engineering Journal</i> , 2020 , 397, 125524	14.7	16
85	High-Quality Perovskite Films Grown with a Fast Solvent-Assisted Molecule Inserting Strategy for Highly Efficient and Stable Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22238-45	9.5	16
84	Enhanced photoluminescence properties of methylene blue dye encapsulated in nanosized hydroxyapatite/silica particles with core-shell structure. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 113, 583-589	2.6	16
83	Stimulated Optical Emission from ZnO Nanobelts Grown with a Simple Carbothermal Evaporation Method. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 1702-1707	3.8	16
82	Zwitterion-Stabilizing Scalable Bladed η -Phase Cs _{0.1} FA _{0.9} PbI ₃ Films for Efficient Inverted Planar Perovskite Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 7020-7030	8.3	16
81	Green laser irradiation-stimulated fullerene-like MoS ₂ nanospheres for tribological applications. <i>Tribology International</i> , 2018 , 122, 119-124	4.9	15
80	Influences of Target and Liquid Media on Morphologies and Optical Properties of ZnO Nanoparticles Prepared by Laser Ablation in Solution. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 4305-4309	3.8	15
79	Postpassivation of Cs(FAMA)Pb(IBr) Perovskite Films with Tris(pentafluorophenyl)borane. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 2472-2482	9.5	15

78	Microwave-assisted hydrothermal synthesis and gas sensitivity of nanostructured SnO ₂ . <i>Particuology</i> , 2013 , 11, 242-248	2.8	14
77	Resistivity control of ZnO nanowires by Al doping. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010 , 4, 82-84	2.5	14
76	2D nanoparticle arrays by partial dissolution of ordered pore films. <i>Materials Letters</i> , 2005 , 59, 276-279	3.3	14
75	Hierarchical Co@C Nanoflowers: Synthesis and Electrochemical Properties as an Advanced Negative Material for Alkaline Secondary Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 23978-23983	9.5	13
74	Ultrastable Laurionite Spontaneously Encapsulates Reduced-dimensional Lead Halide Perovskites. <i>Nano Letters</i> , 2020 , 20, 2316-2325	11.5	13
73	Highly conductive n-type CH ₃ NH ₃ PbI ₃ single crystals doped with bismuth donors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 3694-3704	7.1	13
72	A new method for surface modification of TiO ₂ /Al ₂ O ₃ nanocomposites with enhanced anti-friction properties. <i>Materials Chemistry and Physics</i> , 2012 , 134, 38-42	4.4	13
71	CdS and CdS/CdSe sensitized ZnO nanorod array solar cells prepared by a solution ions exchange process. <i>Materials Research Bulletin</i> , 2013 , 48, 4261-4266	5.1	13
70	Photoluminescence enhancement of perovskite CsPbBr ₃ quantum dots by plasmonic Au nanorods. <i>Chemical Physics</i> , 2020 , 530, 110627	2.3	13
69	Morphology Evolution of ZnO Submicroparticles Induced by Laser Irradiation and Their Enhanced Tribology Properties by Compositing with Al ₂ O ₃ Nanoparticles. <i>Advanced Engineering Materials</i> , 2015 , 17, 341-348	3.5	12
68	Ligand induced anomalous emission shift of size-controlled CsPbBr ₃ nanocrystals. <i>Applied Physics Letters</i> , 2019 , 115, 153104	3.4	12
67	Good triethylamine sensing properties of Au@MoS ₂ nanostructures directly grown on ceramic tubes. <i>Materials Chemistry and Physics</i> , 2020 , 245, 122683	4.4	11
66	TiO ₂ @C composite nanospheres with an optimized homogeneous structure for lithium-ion batteries. <i>New Journal of Chemistry</i> , 2014 , 38, 3722-3728	3.6	11
65	The influence of annealing temperature on the interface and photovoltaic properties of CdS/CdSe quantum dots sensitized ZnO nanorods solar cells. <i>Journal of Colloid and Interface Science</i> , 2014 , 430, 200-6	9.3	11
64	Synthesis and catalytic activity of Au-supported porous TiO ₂ nanospheres for CO oxidation. <i>Powder Technology</i> , 2012 , 217, 585-590	5.2	10
63	Catalyst/dopant-free growth of ZnO nanobelts with different optical properties from nanowires grown via a catalyst-assisted method. <i>CrystEngComm</i> , 2011 , 13, 4282	3.3	10
62	Enhanced light extraction from GaN-based LEDs with a bottom-up assembled photonic crystal. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011 , 176, 1028-1031	3.1	10
61	Highly Conductive P-Type MAPbI ₃ Films and Crystals via Sodium Doping. <i>Frontiers in Chemistry</i> , 2020 , 8, 754	5	10

60	Progress and perspective on CsPbX ₃ nanocrystals for light emitting diodes and solar cells. <i>Journal of Applied Physics</i> , 2020 , 128, 050903	2.5	10
59	Unexpected red emission from Cs ₄ PbI ₆ nanocrystals. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5952-5958		9
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