Cao Bingqiang

List of Publications by Year
in descending order

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208 papers	11,786 citations	19608 61 h-index	32761 100 g-index
211 all docs	211 docs citations	211 times ranked	13720 citing authors

#	Article	IF	Citations
1	Zinc oxide nanorod based photonic devices: recent progress in growth, light emitting diodes and lasers. Nanotechnology, 2009, 20, 332001.	1.3	572
2	Oxygenâ€Vacancy Abundant Ultrafine Co₃O₄/Graphene Composites for Highâ€Rate Supercapacitor Electrodes. Advanced Science, 2018, 5, 1700659.	5.6	392
3	From unstable CsSnI3 to air-stable Cs2SnI6: A lead-free perovskite solar cell light absorber with bandgap of 1.48 eV and high absorption coefficient. Solar Energy Materials and Solar Cells, 2017, 159, 227-234.	3.0	388
4	Temperature-dependent shifts of three emission bands for ZnO nanoneedle arrays. Applied Physics Letters, 2006, 88, 161101.	1.5	296
5	High-performance gas sensor based on ZnO nanowires functionalized by Au nanoparticles. Sensors and Actuators B: Chemical, 2014, 199, 339-345.	4.0	274
6	Near Room Temperature, Fast-Response, and Highly Sensitive Triethylamine Sensor Assembled with Au-Loaded ZnO/SnO₂ Coreâ€“Shell Nanorods on Flat Alumina Substrates. ACS Applied Materials & Interfaces, 2015, 7, 19163-19171.	4.0	249
7	From ZnO Nanorods to Nanoplates:â€‰ Chemical Bath Deposition Growth and Surface-Related Emissions. Journal of Physical Chemistry C, 2008, 112, 680-685.	1.5	225
8	Highly sensitive and selective triethylamine-sensing properties of nanosheets directly grown on ceramic tube by forming NiO/ZnO PN heterojunction. Sensors and Actuators B: Chemical, 2014, 200, 288-296.	4.0	209
9	High triethylamine-sensing properties of NiO/SnO2 hollow sphere Pâ€“N heterojunction sensors. Sensors and Actuators B: Chemical, 2015, 215, 39-44.	4.0	203
10	The tribology properties of alumina/silica composite nanoparticles as lubricant additives. Applied Surface Science, 2011, 257, 5720-5725.	3.1	199
11	Whispering gallery mode lasing in zinc oxide microwires. Applied Physics Letters, 2008, 92, 241102.	1.5	192
12	Mass Synthesis of Large, Single-Crystal Au Nanosheets Based on a Polyol Process. Advanced Functional Materials, 2006, 16, 83-90.	7.8	191
13	Superhydrophobicity of 2D ZnO ordered pore arrays formed by solution-dipping template method. Journal of Colloid and Interface Science, 2005, 287, 634-639.	5.0	172
14	Single Crystal Perovskite Solar Cells: Development and Perspectives. Advanced Functional Materials, 2020, 30, 1905021.	7.8	171
15	Reactive-Template Fabrication of Porous SnO₂ Nanotubes and Their Remarkable Gas-Sensing Performance. ACS Applied Materials & Interfaces, 2013, 5, 7893-7898.	4.0	169
16	Two-dimensional hierarchical porous silica film and its tunable superhydrophobicity. Nanotechnology, 2006, 17, 238-243.	1.3	144
17	Microstructure Control of Zn/ZnO Core/Shell Nanoparticles and Their Temperature-Dependent Blue Emissions. Journal of Physical Chemistry B, 2007, 111, 14311-14317.	1.2	143
18	Near room-temperature triethylamine sensor constructed with CuO/ZnO P-N heterostructural nanorods directly on flat electrode. Sensors and Actuators B: Chemical, 2016, 225, 16-23.	4.0	143

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19	One-pot synthesis of Au-supported ZnO nanoplates with enhanced gas sensor performance. Sensors and Actuators B: Chemical, 2012, 169, 61-66.	4.0	139
20	Different ZnO Nanostructures Fabricated by a Seed-Layer Assisted Electrochemical Route and Their Photoluminescence and Field Emission Properties. Journal of Physical Chemistry C, 2007, 111, 2470-2476.	1.5	138
21	Leadâ€free mesoscopic Cs₂SnI₆ perovskite solar cells using different nanostructured ZnO nanorods as electron transport layers. Physica Status Solidi - Rapid Research Letters, 2016, 10, 587-591.	1.2	138
22	Photovoltaic Efficiency Enhancement of Cu₂O Solar Cells Achieved by Controlling Homojunction Orientation and Surface Microstructure. Journal of Physical Chemistry C, 2012, 116, 10510-10515.	1.5	135
23	Morphology-Controlled Growth of Large-Area Two-Dimensional Ordered Pore Arrays. Advanced Functional Materials, 2004, 14, 283-288.	7.8	134
24	Superior triethylamine-sensing properties based on TiO2/SnO2 nâ€“n heterojunction nanosheets directly grown on ceramic tubes. Sensors and Actuators B: Chemical, 2016, 228, 634-642.	4.0	134
25	Enhanced physical properties of pulsed laser deposited NiO films via annealing and lithium doping for improving perovskite solar cell efficiency. Journal of Materials Chemistry C, 2017, 5, 7084-7094.	2.7	134
26	Fully indium-free flexible Ag nanowires/ZnO:F composite transparent conductive electrodes with high haze. Journal of Materials Chemistry A, 2015, 3, 5375-5384.	5.2	125
27	Ultraviolet-light-emitting ZnO nanosheets prepared by a chemical bath deposition method. Nanotechnology, 2005, 16, 1734-1738.	1.3	124
28	Au nanoparticle-functionalized 3D SnO2 microstructures for high performance gas sensor. Sensors and Actuators B: Chemical, 2016, 226, 266-272.	4.0	124
29	A template-free electrochemical deposition route to ZnO nanoneedle arrays and their optical and field emission properties. Nanotechnology, 2005, 16, 2567-2574.	1.3	114
30	Morphology evolution and photoluminescence properties of ZnO films electrochemically deposited on conductive glass substrates. Journal of Applied Physics, 2006, 99, 073516.	1.1	114
31	Nearâ€Infrared Plasmonic 2D Semimetals for Applications in Communication and Biology. Advanced Functional Materials, 2016, 26, 1793-1802.	7.8	114
32	Morphology-modulation of SnO2 Hierarchical Architectures by Zn Doping for Glycol Gas Sensing and Photocatalytic Applications. Scientific Reports, 2015, 5, 7874.	1.6	112
33	Phosphorus acceptor doped ZnO nanowires prepared by pulsed-laser deposition. Nanotechnology, 2007, 18, 455707.	1.3	109
34	Ultrafast ammonia-driven, microwave-assisted synthesis of nitrogen-doped graphene quantum dots and their optical properties. Nanophotonics, 2017, 6, 259-267.	2.9	106
35	Fe₃O₄ Nanozymes with Aptamer-Tuned Catalysis for Selective Colorimetric Analysis of ATP in Blood. Analytical Chemistry, 2019, 91, 14737-14742.	3.2	105
36	Morphology Control and Transferability of Ordered Through-Pore Arrays Based on the Electrodeposition of a Colloidal Monolayer. Advanced Materials, 2004, 16, 1116-1121.	11.1	98

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37	NO2 gas sensing with SnO2â€“ZnO/PANI composite thick film fabricated from porous nanosolid. Sensors and Actuators B: Chemical, 2013, 176, 166-173.	4.0	97
38	Enhanced triethylamine sensing properties by designing Au@SnO2/MoS2 nanostructure directly on alumina tubes. Sensors and Actuators B: Chemical, 2017, 253, 97-107.	4.0	97
39	Friction and wear properties of ZrO2/SiO2 composite nanoparticles. Journal of Nanoparticle Research, 2011, 13, 2129-2137.	0.8	96
40	Synthesis of monodispersed ZnAl2O4 nanoparticles and their tribology properties as lubricant additives. Materials Research Bulletin, 2012, 47, 4305-4310.	2.7	96
41	Direct hydrothermal growth of ZnO nanosheets on electrode for ethanol sensing. Sensors and Actuators B: Chemical, 2014, 201, 444-451.	4.0	96
42	Enhanced triethylamine sensing properties by fabricating Au@SnO2/Î±-Fe2O3 core-shell nanoneedles directly on alumina tubes. Sensors and Actuators B: Chemical, 2018, 262, 70-78.	4.0	96
43	Origin of Blue Emission from Silicon Nanoparticles: Direct Transition and Interface Recombination. Journal of Physical Chemistry C, 2011, 115, 21056-21062.	1.5	92
44	Surface optical phonon Raman scattering in Znâˆ•ZnO core-shell structured nanoparticles. Applied Physics Letters, 2006, 88, 181905.	1.5	89
45	Mono-dispersed Ag/Graphene nanocomposite as lubricant additive to reduce friction and wear. Tribology International, 2020, 146, 106228.	3.0	89
46	Zinc as a New Dopant for NiO_x-Based Planar Perovskite Solar Cells with Stable Efficiency near 20%. ACS Applied Energy Materials, 2018, 1, 3947-3954.	2.5	87
47	Monolithic perovskite/Si tandem solar cells exceeding 22% efficiency via optimizing top cell absorber. Nano Energy, 2018, 53, 798-807.	8.2	83
48	Whispering gallery modes in zinc oxide microâ€•and nanowires. Physica Status Solidi (B): Basic Research, 2010, 247, 1282-1293.	0.7	77
49	ZnFe2O4 nanoparticles-cotton derived hierarchical porous active carbon fibers for high rate-capability supercapacitor electrodes. Carbon, 2018, 134, 15-21.	5.4	76
50	Improving the triethylamine sensing performance based on debye length: A case study on Î±-Fe2O3@NiO(CuO) core-shell nanorods sensor working at near room-temperature. Sensors and Actuators B: Chemical, 2017, 245, 375-385.	4.0	75
51	Morphology Evolution and CL Property of Ni-Doped Zinc Oxide Nanostructures with Room-Temperature Ferromagnetism. Journal of Physical Chemistry C, 2009, 113, 4381-4385.	1.5	74
52	Enhanced triethylamine sensing performance of Î±-Fe2O3 nanoparticle/ZnO nanorod heterostructures. Sensors and Actuators B: Chemical, 2019, 298, 126917.	4.0	74
53	Low-working-temperature, fast-response-speed NO2 sensor with nanoporous-SnO2/polyaniline double-layered film. Sensors and Actuators B: Chemical, 2016, 224, 654-660.	4.0	72
54	Room-temperature, high selectivity and low-ppm-level triethylamine sensor assembled with Au decahedrons-decorated porous Î±-Fe2O3 nanorods directly grown on flat substrate. Sensors and Actuators B: Chemical, 2018, 268, 170-181.	4.0	72

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55	Three kinds of Cu2O/ZnO heterostructure solar cells fabricated with electrochemical deposition and their structure-related photovoltaic properties. CrystEngComm, 2011, 13, 6065.	1.3	70
56	Growth of ZnO Nanoneedle Arrays with Strong Ultraviolet Emissions by an Electrochemical Deposition Method. Crystal Growth and Design, 2006, 6, 1091-1095.	1.4	68
57	Effect of deposition temperature on transparent conductive properties of Î³-CuI film prepared by vacuum thermal evaporation. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 1466-1470.	0.8	68
58	Largeâ€Scale Fabrication of Threeâ€Dimensional Surface Patterns Using Templateâ€Defined Electrochemical Deposition. Advanced Functional Materials, 2013, 23, 720-730.	7.8	67
59	Fabrication and Characterization of Beaded SiC Quantum Rings with Anomalous Red Spectral Shift. Advanced Materials, 2012, 24, 5598-5603.	11.1	65
60	High-sensitivity, high-selectivity, and fast-recovery-speed triethylamine sensor based on ZnO micropyramids prepared by molten salt growth method. Journal of Alloys and Compounds, 2017, 695, 2930-2936.	2.8	65
61	Controllable ZnFe2O4/reduced graphene oxide hybrid for high-performance supercapacitor electrode. Electrochimica Acta, 2018, 268, 20-26.	2.6	65
62	Engineering Two-Dimensional Pd Nanoplates with Exposed Highly Active {100} Facets Toward Colorimetric Acid Phosphatase Detection. ACS Applied Materials & Interfaces, 2019, 11, 47564-47570.	4.0	65
63	Transferable Ordered Ni Hollow Sphere Arrays Induced by Electrodeposition on Colloidal Monolayer. Journal of Physical Chemistry B, 2006, 110, 7184-7188.	1.2	64
64	Electrochemical Deposition of ZnO Nanowire Arrays: Organization, Doping, and Properties. Science of Advanced Materials, 2010, 2, 336-358.	0.1	62
65	ZnO Nanowalls Grown with High-Pressure PLD and Their Applications as Field Emitters and UV Detectors. Journal of Physical Chemistry C, 2009, 113, 10975-10980.	1.5	59
66	Submicron-Lubricant Based on Crystallized Fe₃O₄ Spheres for Enhanced Tribology Performance. Chemistry of Materials, 2014, 26, 5113-5119.	3.2	59
67	A Review of Redox Electrolytes for Supercapacitors. Frontiers in Chemistry, 2020, 8, 413.	1.8	59
68	Tellurium-Based Double Perovskites A₂TeX₆ with Tunable Band Gap and Long Carrier Diffusion Length for Optoelectronic Applications. ACS Energy Letters, 2019, 4, 228-234.	8.8	58
69	Highly sensitive gold-decorated zinc oxide nanorods sensor for triethylamine working at near room temperature. Journal of Colloid and Interface Science, 2017, 499, 67-75.	5.0	57
70	Reversible Band Gap Narrowing of Snâ€Based Hybrid Perovskite Single Crystal with Excellent Phase Stability. Angewandte Chemie - International Edition, 2018, 57, 14868-14872.	7.2	56
71	Fabrication of large-scale zinc oxide ordered pore arrays with controllable morphology. Chemical Communications, 2004, , 1604.	2.2	55
72	Laser induced oxygen-deficient TiO2/graphene hybrid for high-performance supercapacitor. Journal of Power Sources, 2019, 431, 220-225.	4.0	54

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73	SnO 2 nanotube arrays grown via an in situ template-etching strategy for effective and stable perovskite solar cells. Chemical Engineering Journal, 2017, 325, 378-385.	6.6	52
74	Efficient Laserâ€Induced Construction of Oxygenâ€Vacancy Abundant Nanoâ€ZnCo₂O₄/Porous Reduced Graphene Oxide Hybrids toward Exceptional Capacitive Lithium Storage. Small, 2020, 16, e2001526.	5.2	48
75	Corncob cellulose-derived hierarchical porous carbon for high performance supercapacitors. Journal of Power Sources, 2021, 484, 229221.	4.0	48
76	ZnO photoanodes with different morphologies grown by electrochemical deposition and their dye-sensitized solar cell properties. Ceramics International, 2014, 40, 7965-7970.	2.3	47
77	Reactive Template Synthesis of Polypyrrole Nanotubes for Fabricating Metal/Conducting Polymer Nanocomposites. Macromolecular Rapid Communications, 2013, 34, 528-532.	2.0	46
78	Homogeneous core/shell ZnO/ZnMgO quantum well heterostructures on vertical ZnO nanowires. Nanotechnology, 2009, 20, 305701.	1.3	44
79	Morphology-controlled 2D ordered arrays by heating-induced deformation of 2D colloidal monolayer. Journal of Materials Chemistry, 2006, 16, 609-612.	6.7	43
80	Three-dimensional SnO2 microstructures assembled by porous nanosheets and their superior performance for gas sensing. Powder Technology, 2013, 250, 40-45.	2.1	43
81	Selfâ€organized growth of ZnOâ€based nanoâ€and microstructures. Physica Status Solidi (B): Basic Research, 2010, 247, 1265-1281.	0.7	41
82	Perovskite films grown with green mixed anti-solvent for highly efficient solar cells with enhanced stability. Solar Energy, 2019, 181, 285-292.	2.9	41
83	Laser-induced reshaping of particles aiming at energy-saving applications. Journal of Materials Chemistry, 2012, 22, 15947.	6.7	39
84	Thermoelectric optimization of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>AgBiS</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> by defect engineering for room-temperature applications. Physical Review B, 2019, 99, .	1.1	38
85	Electrospun ZnFe2O4/carbon nanofibers as high-rate supercapacitor electrodes. Journal of Power Sources, 2020, 469, 228416.	4.0	38
86	Spatial fluctuations of optical emission from single ZnO/MgZnO nanowire quantum wells. Nanotechnology, 2008, 19, 115202.	1.3	37
87	Flexible and Biocompatibility Power Source for Electronics: A Cellulose Paper Based Holeâ€Transportâ€Materialsâ€Free Perovskite Solar Cell. Solar Rrl, 2018, 2, 1800175.	3.1	37
88	Oxygen-deficient BiFeO3-NC nanoflake anodes for flexible battery-supercapacitor hybrid devices with high voltage and long-term stability. Chemical Engineering Journal, 2020, 397, 125524.	6.6	37
89	Doping Nitrogen into Q-Graphene by Plasma Treatment toward Peroxidase Mimics with Enhanced Catalysis. Analytical Chemistry, 2020, 92, 5152-5157.	3.2	37
90	Enhanced Triethylamine Sensing Properties by Designing an Î±-Fe₂O₃/Î±-MoO₃ Nanostructure Directly Grown on Ceramic Tubes. ACS Applied Nano Materials, 2019, 2, 6715-6725.	2.4	36

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91	Microwave hydrothermal synthesis of nanoporous cobalt oxides and their gas sensing properties. Materials Research Bulletin, 2011, 46, 1097-1101.	2.7	35
92	A novel hetero-structure sensor based on Au/Mg-doped TiO2/SnO2 nanosheets directly grown on Al2O3 ceramic tubes. Sensors and Actuators B: Chemical, 2018, 273, 328-335.	4.0	35
93	Rod-like porous CoMoO4@C as excellent anode for high performance lithium ion battery. Journal of Alloys and Compounds, 2019, 790, 891-899.	2.8	35
94	Stable CsPbBr₃:Sn@SiO₂ and Cs₄PbBr₆:Sn@SiO₂ Coreâ€“Shell Quantum Dots with Tunable Color Emission for Light-Emitting Diodes. ACS Applied Nano Materials, 2020, 3, 3019-3027.	2.4	35
95	Combustion procedure deposited SnO2 electron transport layers for high efficient perovskite solar cells. Journal of Alloys and Compounds, 2020, 844, 156032.	2.8	34
96	Postpassivation of Cs_{0.05}(FA_{0.83}MA_{0.17})_{0.95}Pb(I_{0.83}Br_{0.17})₃ Perovskite Films with Tris(pentafluorophenyl)borane. ACS Applied Materials & Interfaces, 2021, 13, 2472-2482.	4.0	34
97	Structure and thermal stability of gold nanoplates. Applied Physics Letters, 2006, 88, 071904.	1.5	33
98	Smooth and solid WS₂ submicrospheres grown by a new laser fragmentation and reshaping process with enhanced tribological properties. Chemical Communications, 2016, 52, 10147-10150.	2.2	33
99	Preparation of defective ZnFe2O4/graphene composites and their charge storage properties. Electrochemistry Communications, 2018, 92, 19-23.	2.3	32
100	Efficient and stable planar perovskite solar cells with carbon quantum dots-doped PCBM electron transport layer. New Journal of Chemistry, 2019, 43, 7130-7135.	1.4	31
101	Electrodeposition-Induced Highly Oriented Zinc Oxide Ordered Pore Arrays and Their Ultraviolet Emissions. Electrochemical and Solid-State Letters, 2005, 8, G237.	2.2	29
102	Sealing the domain boundaries and defects passivation by Poly(acrylic acid) for scalable blading of efficient perovskite solar cells. Journal of Power Sources, 2019, 426, 188-196.	4.0	29
103	Unexpected red emission from Cs₄PbI₆ nanocrystals. Journal of Materials Chemistry A, 2020, 8, 5952-5958.	5.2	29
104	Fabrication of the periodic nanopillar arrays by heat-induced deformation of 2D polymer colloidal monolayer. Polymer, 2005, 46, 12033-12036.	1.8	28
105	Template-directed dewetting of a gold membrane to fabricate highly SERS-active substrates. Journal of Materials Chemistry, 2011, 21, 14031.	6.7	28
106	Construction of hollow Co₃O₄cubes as a high-performance anode for lithium ion batteries. New Journal of Chemistry, 2017, 41, 7960-7965.	1.4	28
107	Preparation of {200} crystal faced SnO2 nanorods with extremely high gas sensitivity at lower temperature. Rare Metals, 2021, 40, 2004-2016.	3.6	28
108	Tuning the lateral density of ZnO nanowire arrays and its application as physical templates for radial nanowire heterostructures. Journal of Materials Chemistry, 2010, 20, 3848.	6.7	27

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109	Engineering anatase hierarchically cactus-like TiO 2 arrays for photoelectrochemical and visualized sensing platform. Biosensors and Bioelectronics, 2017, 90, 336-342.	5.3	27
110	Study on the Mn-doped CsPbCl3 perovskite nanocrystals with controllable dual-color emission via energy transfer. Journal of Alloys and Compounds, 2020, 821, 153568.	2.8	27
111	Highly conductive n-type CH₃NH₃PbI₃ single crystals doped with bismuth donors. Journal of Materials Chemistry C, 2020, 8, 3694-3704.	2.7	27
112	Zwitterion-Stabilizing Scalable Bladed Î±-Phase Cs_{0.1}FA_{0.9}PbI₃ Films for Efficient Inverted Planar Perovskite Solar Cells. ACS Sustainable Chemistry and Engineering, 2020, 8, 7020-7030.	3.2	27
113	Sodiumâ€Doped ZnO Nanowires Grown by Highâ€pressure <scp>PLD</scp> and their Acceptorâ€Related Optical Properties. Journal of the American Ceramic Society, 2014, 97, 2177-2184.	1.9	26
114	Oxygen influencing the photocarriers lifetime of CH3NH3PbI3âˆ’xClx film grown by two-step interdiffusion method and its photovoltaic performance. Applied Physics Letters, 2016, 108, .	1.5	26
115	3D hierarchical Co₃O₄ microspheres with enhanced lithium-ion battery performance. RSC Advances, 2015, 5, 61631-61638.	1.7	25
116	Two-dimensional porous Co₃O₄nanosheets for high-performance lithium ion batteries. New Journal of Chemistry, 2017, 41, 15283-15288.	1.4	25
117	Colorimetric determination of the activity of alkaline phosphatase by exploiting the oxidase-like activity of palladium cube@CeO2 core-shell nanoparticles. Mikrochimica Acta, 2020, 187, 115.	2.5	25
118	Plasmonic Au Nanooctahedrons Enhance Light Harvesting and Photocarrier Extraction in Perovskite Solar Cell. ACS Applied Energy Materials, 2021, 4, 3201-3209.	2.5	25
119	Facile fabrication of porous NiMoO4@C nanowire as high performance anode material for lithium ion batteries. Ceramics International, 2019, 45, 18462-18470.	2.3	24
120	Temperature-Dependent Emission Shifts of Peanutlike ZnO Microrods Synthesized by a Hydrothermal Method. Crystal Growth and Design, 2007, 7, 1686-1689.	1.4	23
121	Double-activated porous carbons for high-performance supercapacitor electrodes. Rare Metals, 2017, 36, 449-456.	3.6	23
122	Green laser irradiation-stimulated fullerene-like MoS2 nanospheres for tribological applications. Tribology International, 2018, 122, 119-124.	3.0	23
123	Enhanced photocurrent of perovskite solar cells by dual-sensitized Î²-NaYF4:Nd3+/Yb3+/Er3+ up-conversion nanoparticles. Chemical Physics Letters, 2021, 763, 138253.	1.2	23
124	The Influence of Physical Properties of ZnO Films on the Efficiency of Planar ZnO/Perovskite/P3HT Solar Cell. Journal of the American Ceramic Society, 2017, 100, 176-184.	1.9	22
125	From energy harvesting to topologically insulating behavior: ABO₃-type epitaxial thin films and superlattices. Journal of Materials Chemistry C, 2020, 8, 15575-15596.	2.7	22
126	Two-dimensional ordered polymer hollow sphere and convex structure arrays based on monolayer pore films. Journal of Materials Research, 2005, 20, 338-343.	1.2	21

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127	Enhanced tribology properties of ZnO/Al2O3 composite nanoparticles as liquid lubricating additives. Journal of Sol-Gel Science and Technology, 2012, 61, 501-508.	1.1	21
128	Quantum size effect and surface defect passivation in size-controlled CsPbBr3 quantum dots. Journal of Alloys and Compounds, 2020, 831, 154834.	2.8	21
129	Progress and perspective on CsPbX3 nanocrystals for light emitting diodes and solar cells. Journal of Applied Physics, 2020, 128, .	1.1	20
130	Ultrastable Laurionite Spontaneously Encapsulates Reduced-dimensional Lead Halide Perovskites. Nano Letters, 2020, 20, 2316-2325.	4.5	20
131	Photoinduced defect engineering: enhanced photocatalytic performance of 3D BiOCl nanoclusters with abundant oxygen vacancies. CrystEngComm, 2021, 23, 1305-1311.	1.3	20
132	Hierarchical Co@C Nanoflowers: Synthesis and Electrochemical Properties as an Advanced Negative Material for Alkaline Secondary Batteries. ACS Applied Materials & Interfaces, 2015, 7, 23978-23983.	4.0	19
133	High-Quality Perovskite Films Grown with a Fast Solvent-Assisted Molecule Inserting Strategy for Highly Efficient and Stable Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 22238-22245.	4.0	19
134	Photoluminescence enhancement of perovskite CsPbBr3 quantum dots by plasmonic Au nanorods. Chemical Physics, 2020, 530, 110627.	0.9	19
135	Aqueous phase fabrication and conversion of Pb(OH)Br into a CH₃NH₃PbBr₃ perovskite and its application in resistive memory switching devices. Green Chemistry, 2020, 22, 3608-3614.	4.6	19
136	Stable p-type ZnO:P nanowire/n-type ZnO:Ga film junctions, reproducibly grown by two-step pulsed laser deposition. Journal of Vacuum Science & Technology B, 2009, 27, 1693-1697.	1.3	18
137	Stimulated Optical Emission from ZnO Nanobelts Grown with a Simple Carbothermal Evaporation Method. Journal of Physical Chemistry C, 2011, 115, 1702-1707.	1.5	18
138	Influences of Target and Liquid Media on Morphologies and Optical Properties of <scp>ZnO</scp> Nanoparticles Prepared by Laser Ablation in Solution. Journal of the American Ceramic Society, 2011, 94, 4305-4309.	1.9	18
139	A new method for surface modification of TiO2/Al2O3 nanocomposites with enhanced anti-friction properties. Materials Chemistry and Physics, 2012, 134, 38-42.	2.0	18
140	Enhanced photoluminescence properties of methylene blue dye encapsulated in nanosized hydroxyapatite/silica particles with core-shell structure. Applied Physics A: Materials Science and Processing, 2013, 113, 583-589.	1.1	18
141	Microwave-assisted hydrothermal synthesis and gas sensitivity of nanostructured SnO2. Particuology, 2013, 11, 242-248.	2.0	18
142	Highly Conductive P-Type MAPbI3 Films and Crystals via Sodium Doping. Frontiers in Chemistry, 2020, 8, 754.	1.8	18
143	Improving the performances of CsPbBr3 solar cells fabricated in ambient condition. Journal of Materials Science: Materials in Electronics, 2020, 31, 21154-21167.	1.1	18
144	2D nanoparticle arrays by partial dissolution of ordered pore films. Materials Letters, 2005, 59, 276-279.	1.3	17

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145	Good triethylamine sensing properties of Au@MoS2 nanostructures directly grown on ceramic tubes. Materials Chemistry and Physics, 2020, 245, 122683.	2.0	17
146	A highly selective and recyclable sensor for the electroanalysis of phosphothioate pesticides using silver-doped ZnO nanorods arrays. Analytica Chimica Acta, 2021, 1152, 338285.	2.6	17
147	Ligand induced anomalous emission shift of size-controlled CsPbBr3 nanocrystals. Applied Physics Letters, 2019, 115, .	1.5	16
148	Interfacial Assembled CeO_{2â€“x}/Co@N-Doped Carbon Hollow Nanohybrids for High-Performance Lithiumâ€“Sulfur Batteries. ACS Sustainable Chemistry and Engineering, 2021, 9, 14451-14460.	3.2	16
149	Resistivity control of ZnO nanowires by Al doping. Physica Status Solidi - Rapid Research Letters, 2010, 4, 82-84.	1.2	15
150	CdS and CdS/CdSe sensitized ZnO nanorod array solar cells prepared by a solution ions exchange process. Materials Research Bulletin, 2013, 48, 4261-4266.	2.7	15
151	Corncob-Derived Hierarchical Porous Activated Carbon for High-Performance Lithium-Ion Capacitors. Energy & Fuels, 2020, 34, 16885-16892.	2.5	15
152	TiO₂@C composite nanospheres with an optimized homogeneous structure for lithium-ion batteries. New Journal of Chemistry, 2014, 38, 3722-3728.	1.4	14
153	Morphology Evolution of ZnO Submicroparticles Induced by Laser Irradiation and Their Enhanced Tribology Properties by Compositing with Al₂O₃ Nanoparticles. Advanced Engineering Materials, 2015, 17, 341-348.	1.6	14
154	Ultrasmall CsPbBr₃ Quantum Dots with Bright and Wide Blue Emissions. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100134.	1.2	14
155	Enhanced light extraction from GaN-based LEDs with a bottom-up assembled photonic crystal. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2011, 176, 1028-1031.	1.7	13
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157	Electrochemically constructing V-doped BiFeO3 nanoflake network anodes for flexible asymmetric micro-supercapacitors. Electrochimica Acta, 2021, 393, 139079.	2.6	13
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