Bingqiang Cao

List of Publications by Year
in descending order

195 papers	9,998 citations	24978 57 h-index	42291 92 g-index
196 all docs	196 docs citations	196 times ranked	11622 citing authors

#	Article	IF	Citations
1	Oxygenâ€Vacancy Abundant Ultrafine Co₃O₄/Graphene Composites for Highâ€Rate Supercapacitor Electrodes. Advanced Science, 2018, 5, 1700659.	5.6	392
2	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
3	Temperature-dependent shifts of three emission bands for ZnO nanoneedle arrays. Applied Physics Letters, 2006, 88, 161101.	1.5	296
4	High-performance gas sensor based on ZnO nanowires functionalized by Au nanoparticles. Sensors and Actuators B: Chemical, 2014, 199, 339-345.	4.0	274
5	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
6	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
7	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
8	The tribology properties of alumina/silica composite nanoparticles as lubricant additives. Applied Surface Science, 2011, 257, 5720-5725.	3.1	199
9	Whispering gallery mode lasing in zinc oxide microwires. Applied Physics Letters, 2008, 92, 241102.	1.5	192
10	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
11	Single Crystal Perovskite Solar Cells: Development and Perspectives. Advanced Functional Materials, 2020, 30, 1905021.	7.8	171
12	Reactive-Template Fabrication of Porous SnO₂ Nanotubes and Their Remarkable Gas-Sensing Performance. ACS Applied Materials & Interfaces, 2013, 5, 7893-7898.	4.0	169
13	Two-dimensional hierarchical porous silica film and its tunable superhydrophobicity. Nanotechnology, 2006, 17, 238-243.	1.3	144
14	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
15	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
16	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
17	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
18	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

#	Article	IF	Citations
19	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
20	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
21	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
22	Ultraviolet-light-emitting ZnO nanosheets prepared by a chemical bath deposition method. Nanotechnology, 2005, 16, 1734-1738.	1.3	124
23	Au nanoparticle-functionalized 3D SnO2 microstructures for high performance gas sensor. Sensors and Actuators B: Chemical, 2016, 226, 266-272.	4.0	124
24	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
25	Morphology evolution and photoluminescence properties of ZnO films electrochemically deposited on conductive glass substrates. Journal of Applied Physics, 2006, 99, 073516.	1.1	114
26	Morphology-modulation of SnO2 Hierarchical Architectures by Zn Doping for Glycol Gas Sensing and Photocatalytic Applications. Scientific Reports, 2015, 5, 7874.	1.6	112
27	Fe₃O₄ Nanozymes with Aptamer-Tuned Catalysis for Selective Colorimetric Analysis of ATP in Blood. Analytical Chemistry, 2019, 91, 14737-14742.	3.2	105
28	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
29	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
30	Friction and wear properties of ZrO2/SiO2 composite nanoparticles. Journal of Nanoparticle Research, 2011, 13, 2129-2137.	0.8	96
31	Synthesis of monodispersed ZnAl2O4 nanoparticles and their tribology properties as lubricant additives. Materials Research Bulletin, 2012, 47, 4305-4310.	2.7	96
32	Direct hydrothermal growth of ZnO nanosheets on electrode for ethanol sensing. Sensors and Actuators B: Chemical, 2014, 201, 444-451.	4.0	96
33	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
34	Origin of Blue Emission from Silicon Nanoparticles: Direct Transition and Interface Recombination. Journal of Physical Chemistry C, 2011, 115, 21056-21062.	1.5	92
35	Mono-dispersed Ag/Graphene nanocomposite as lubricant additive to reduce friction and wear. Tribology International, 2020, 146, 106228.	3.0	89
36	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

#	Article	IF	Citations
37	Monolithic perovskite/Si tandem solar cells exceeding 22% efficiency via optimizing top cell absorber. Nano Energy, 2018, 53, 798-807.	8.2	83
38	Whispering gallery modes in zinc oxide microâ€•and nanowires. Physica Status Solidi (B): Basic Research, 2010, 247, 1282-1293.	0.7	77
39	ZnFe2O4 nanoparticles-cotton derived hierarchical porous active carbon fibers for high rate-capability supercapacitor electrodes. Carbon, 2018, 134, 15-21.	5.4	76
40	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
41	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
42	Enhanced triethylamine sensing performance of Î±-Fe2O3 nanoparticle/ZnO nanorod heterostructures. Sensors and Actuators B: Chemical, 2019, 298, 126917.	4.0	74
43	One-pot fabrication of uniform polypyrrole/Au nanocomposites and investigation for gas sensing. Sensors and Actuators B: Chemical, 2013, 186, 695-700.	4.0	72
44	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
45	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
46	Low-temperature in-situ growth of SnO2 nanosheets and its high triethylamine sensing response by constructing Au-loaded ZnO/SnO2 heterostructure. Journal of Alloys and Compounds, 2018, 737, 603-612.	2.8	72
47	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
48	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
49	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
50	Largeâ€Scale Fabrication of Threeâ€Dimensional Surface Patterns Using Templateâ€Defined Electrochemical Deposition. Advanced Functional Materials, 2013, 23, 720-730.	7.8	67
51	Fabrication and Characterization of Beaded SiC Quantum Rings with Anomalous Red Spectral Shift. Advanced Materials, 2012, 24, 5598-5603.	11.1	65
52	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
53	Controllable ZnFe2O4/reduced graphene oxide hybrid for high-performance supercapacitor electrode. Electrochimica Acta, 2018, 268, 20-26.	2.6	65
54	Transferable Ordered Ni Hollow Sphere Arrays Induced by Electrodeposition on Colloidal Monolayer. Journal of Physical Chemistry B, 2006, 110, 7184-7188.	1.2	64

#	Article	IF	Citations
55	Different morphologies of ZnO and their triethylamine sensing properties. Journal of Alloys and Compounds, 2017, 706, 461-469.	2.8	64
56	Electrochemical Deposition of ZnO Nanowire Arrays: Organization, Doping, and Properties. Science of Advanced Materials, 2010, 2, 336-358.	0.1	62
57	Gold nanoclusters-based dual-channel assay for colorimetric and turn-on fluorescent sensing of alkaline phosphatase. Sensors and Actuators B: Chemical, 2019, 301, 127080.	4.0	60
58	Submicron-Lubricant Based on Crystallized Fe₃O₄ Spheres for Enhanced Tribology Performance. Chemistry of Materials, 2014, 26, 5113-5119.	3.2	59
59	The air and thermal stabilities of lead-free perovskite variant Cs 2 SnI 6 powder. Materials Letters, 2017, 199, 50-52.	1.3	59
60	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
61	3D hierarchical MnO₂ nanorod/welded Ag-nanowire-network composites for high-performance supercapacitor electrodes. Chemical Communications, 2016, 52, 7998-8001.	2.2	56
62	Fabrication of large-scale zinc oxide ordered pore arrays with controllable morphology. Chemical Communications, 2004, , 1604.	2.2	55
63	Laser induced oxygen-deficient TiO2/graphene hybrid for high-performance supercapacitor. Journal of Power Sources, 2019, 431, 220-225.	4.0	54
64	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
65	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
66	Corncob cellulose-derived hierarchical porous carbon for high performance supercapacitors. Journal of Power Sources, 2021, 484, 229221.	4.0	48
67	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
68	Reactive Template Synthesis of Polypyrrole Nanotubes for Fabricating Metal/Conducting Polymer Nanocomposites. Macromolecular Rapid Communications, 2013, 34, 528-532.	2.0	46
69	Morphology-controlled 2D ordered arrays by heating-induced deformation of 2D colloidal monolayer. Journal of Materials Chemistry, 2006, 16, 609-612.	6.7	43
70	Three-dimensional SnO2 microstructures assembled by porous nanosheets and their superior performance for gas sensing. Powder Technology, 2013, 250, 40-45.	2.1	43
71	Selfâ€organized growth of ZnOâ€based nanoâ€and microstructures. Physica Status Solidi (B): Basic Research, 2010, 247, 1265-1281.	0.7	41
72	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

#	Article	IF	Citations
73	Laser-induced reshaping of particles aiming at energy-saving applications. Journal of Materials Chemistry, 2012, 22, 15947.	6.7	39
74	Surface-crumpled graphene hydrogels with macro- and microporous structures for ultrahigh-volumetric energy storage. Journal of Power Sources, 2018, 399, 115-124.	4.0	39
75	Electrospun ZnFe2O4/carbon nanofibers as high-rate supercapacitor electrodes. Journal of Power Sources, 2020, 469, 228416.	4.0	38
76	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
77	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
78	Doping Nitrogen into Q-Graphene by Plasma Treatment toward Peroxidase Mimics with Enhanced Catalysis. Analytical Chemistry, 2020, 92, 5152-5157.	3.2	37
79	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
80	Microwave hydrothermal synthesis of nanoporous cobalt oxides and their gas sensing properties. Materials Research Bulletin, 2011, 46, 1097-1101.	2.7	35
81	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
82	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
83	High-voltage aqueous asymmetric pseudocapacitors based on methyl blue-doped polyaniline hydrogels and the derived N/S-codoped carbon aerogels. Chemical Engineering Journal, 2020, 383, 123153.	6.6	35
84	Combustion procedure deposited SnO2 electron transport layers for high efficient perovskite solar cells. Journal of Alloys and Compounds, 2020, 844, 156032.	2.8	34
85	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
86	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
87	Preparation of defective ZnFe2O4/graphene composites and their charge storage properties. Electrochemistry Communications, 2018, 92, 19-23.	2.3	32
88	Enhanced triethylamine sensing properties by designing Au@SnO 2 /ZnO nanosheets directly on alumina tubes. Surfaces and Interfaces, 2018, 10, 85-92.	1.5	30
89	Electrodeposition-Induced Highly Oriented Zinc Oxide Ordered Pore Arrays and Their Ultraviolet Emissions. Electrochemical and Solid-State Letters, 2005, 8, G237.	2.2	29
90	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

#	Article	IF	Citations
91	Fabrication of the periodic nanopillar arrays by heat-induced deformation of 2D polymer colloidal monolayer. Polymer, 2005, 46, 12033-12036.	1.8	28
92	Template-directed dewetting of a gold membrane to fabricate highly SERS-active substrates. Journal of Materials Chemistry, 2011, 21, 14031.	6.7	28
93	Construction of hollow Co₃O₄cubes as a high-performance anode for lithium ion batteries. New Journal of Chemistry, 2017, 41, 7960-7965.	1.4	28
94	Bismuth Telluride Interlayer for Allâ€Inorganic Perovskite Solar Cells with Enhanced Efficiency and Stability. Solar Rrl, 2019, 3, 1900233.	3.1	27
95	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
96	Highly conductive n-type CH₃NH₃PbI₃ single crystals doped with bismuth donors. Journal of Materials Chemistry C, 2020, 8, 3694-3704.	2.7	27
97	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
98	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
99	A novel TiO2 nanorod/nanoparticle composite architecture to improve the performance of dye-sensitized solar cells. Ceramics International, 2014, 40, 2337-2342.	2.3	26
100	Oxygen influencing the photocarriers lifetime of CH3NH3PbI3â^'xClx film grown by two-step interdiffusion method and its photovoltaic performance. Applied Physics Letters, 2016, 108, .	1.5	26
101	Laser irradiation-induced laminated graphene/MoS₂ composites with synergistically improved tribological properties. Nanotechnology, 2018, 29, 265704.	1.3	26
102	3D hierarchical Co₃O₄ microspheres with enhanced lithium-ion battery performance. RSC Advances, 2015, 5, 61631-61638.	1.7	25
103	Two-dimensional porous Co₃O₄nanosheets for high-performance lithium ion batteries. New Journal of Chemistry, 2017, 41, 15283-15288.	1.4	25
104	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
105	Plasmonic Au Nanooctahedrons Enhance Light Harvesting and Photocarrier Extraction in Perovskite Solar Cell. ACS Applied Energy Materials, 2021, 4, 3201-3209.	2.5	25
106	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
107	Temperature-Dependent Emission Shifts of Peanutlike ZnO Microrods Synthesized by a Hydrothermal Method. Crystal Growth and Design, 2007, 7, 1686-1689.	1.4	23
108	Green laser irradiation-stimulated fullerene-like MoS2 nanospheres for tribological applications. Tribology International, 2018, 122, 119-124.	3.0	23

#	Article	IF	Citations
109	Highly transparent 3D NiO-Ni/Ag-nanowires/FTO micro-supercapacitor electrodes for fully transparent electronic deviceÂpurpose. Electrochimica Acta, 2018, 260, 281-289.	2.6	23
110	Highly transparent and conductive Î³-CuI films grown by simply dipping copper films into iodine solution. Physica B: Condensed Matter, 2019, 573, 45-48.	1.3	23
111	Laser assisted self-assembly synthesis of porous hollow MoO3-x-doped MoS2 nanospheres sandwiched by graphene for flexible high-areal supercapacitors. Electrochimica Acta, 2020, 332, 135499.	2.6	23
112	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
113	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
114	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
115	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
116	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
117	Quantum size effect and surface defect passivation in size-controlled CsPbBr3 quantum dots. Journal of Alloys and Compounds, 2020, 831, 154834.	2.8	21
118	Thermal evaporated CuI film thickness-dependent performance of perovskite solar cells. Vacuum, 2021, 187, 110076.	1.6	21
119	Progress and perspective on CsPbX3 nanocrystals for light emitting diodes and solar cells. Journal of Applied Physics, 2020, 128, .	1.1	20
120	Ultrastable Laurionite Spontaneously Encapsulates Reduced-dimensional Lead Halide Perovskites. Nano Letters, 2020, 20, 2316-2325.	4.5	20
121	Bamboo-like N/S-codoped carbon nanotube aerogels for high-power and high-energy supercapacitors. Journal of Alloys and Compounds, 2021, 861, 157946.	2.8	20
122	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
123	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
124	Photoluminescence enhancement of perovskite CsPbBr3 quantum dots by plasmonic Au nanorods. Chemical Physics, 2020, 530, 110627.	0.9	19
125	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
126	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

#	Article	IF	Citations
127	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
128	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
129	Microwave-assisted hydrothermal synthesis and gas sensitivity of nanostructured SnO2. Particuology, 2013, 11, 242-248.	2.0	18
130	Phosphorus Concentration Dependent Microstructure and Optical Property of ZnO Nanowires Grown by High-Pressure Pulsed Laser Deposition. Journal of Physical Chemistry C, 2015, 119, 4371-4378.	1.5	18
131	Highly Conductive P-Type MAPbI3 Films and Crystals via Sodium Doping. Frontiers in Chemistry, 2020, 8, 754.	1.8	18
132	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
133	2D nanoparticle arrays by partial dissolution of ordered pore films. Materials Letters, 2005, 59, 276-279.	1.3	17
134	Reversible Band Gap Narrowing of Snâ€Based Hybrid Perovskite Single Crystal with Excellent Phase Stability. Angewandte Chemie, 2018, 130, 15084-15088.	1.6	17
135	Good triethylamine sensing properties of Au@MoS2 nanostructures directly grown on ceramic tubes. Materials Chemistry and Physics, 2020, 245, 122683.	2.0	17
136	Ultrathin holey reduced graphene oxide/Ni(picolinic acid)2 papers for flexible battery-supercapacitor hybrid devices. Chemical Engineering Journal, 2021, 408, 127302.	6.6	17
137	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
138	Ligand induced anomalous emission shift of size-controlled CsPbBr3 nanocrystals. Applied Physics Letters, 2019, 115, .	1.5	16
139	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
140	Multifunctional microporous activated carbon nanotubes anchored on graphite fibers for high-strength and high-rate flexible all-solid-state supercapacitors. Applied Surface Science, 2020, 502, 144423.	3.1	15
141	Study on fluorescence properties and stability of Cu2+-Substituted CsPbBr3 perovskite quantum dots. Physica B: Condensed Matter, 2020, 599, 412488.	1.3	15
142	Corncob-Derived Hierarchical Porous Activated Carbon for High-Performance Lithium-Ion Capacitors. Energy & Fuels, 2020, 34, 16885-16892.	2.5	15
143	TiO₂@C composite nanospheres with an optimized homogeneous structure for lithium-ion batteries. New Journal of Chemistry, 2014, 38, 3722-3728.	1.4	14
144	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

#	Article	IF	Citations
145	Ultrasmall CsPbBr₃ Quantum Dots with Bright and Wide Blue Emissions. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100134.	1.2	14
146	Ligand exchange of SnO2 effectively improving the efficiency of flexible perovskite solar cells. Journal of Alloys and Compounds, 2021, 883, 160827.	2.8	14
147	The influence of annealing temperature on the interface and photovoltaic properties of CdS/CdSe quantum dots sensitized ZnO nanorods solar cells. Journal of Colloid and Interface Science, 2014, 430, 200-206.	5.0	13
148	Electrochemically constructing V-doped BiFeO3 nanoflake network anodes for flexible asymmetric micro-supercapacitors. Electrochimica Acta, 2021, 393, 139079.	2.6	13
149	A bubble-templated approach to holey N/S-codoped carbon nanosheet aerogels with honeycomb-like structure for supercapacitors. Electrochimica Acta, 2022, 404, 139741.	2.6	13
150	Stable CsPbX3 mixed halide alloyed epitaxial films prepared by pulsed laser deposition. Applied Physics Letters, 2022, 120, .	1.5	13
151	Synthesis and catalytic activity of Au-supported porous TiO2 nanospheres for CO oxidation. Powder Technology, 2012, 217, 585-590.	2.1	11
152	Enhanced performance of TiO2-based planar perovskite solar cells by In2O3 interfacial modification layer. Organic Electronics, 2019, 75, 105426.	1.4	11
153	Polarization-enhanced bulk photovoltaic effect of BiFeO3 epitaxial film under standard solar illumination. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126831.	0.9	11
154	Tuning Jahnâ€“Teller distortion and electron localization of LaMnO₃ epitaxial films via substrate temperature. Journal Physics D: Applied Physics, 2021, 54, 235302.	1.3	11
155	Laser Irradiationâ€Induced SiC@Graphene Subâ€Microspheres: A Bioinspired Coreâ€“Shell Structure for Enhanced Tribology Properties. Advanced Materials Interfaces, 2018, 5, 1700839.	1.9	10
156	Corncob-derived hierarchical porous carbons constructed by re-activation for high-rate lithium-ion capacitors. New Journal of Chemistry, 2019, 43, 10103-10108.	1.4	10
157	Study on synthesis and luminescent properties of Mn4+ doped (Gd,Y)3Al5O12 phosphor. Optical Materials, 2020, 102, 109815.	1.7	10
158	A magnet-renewable electroanalysis strategy for hydrogen sulfide in aquaculture freshwater using magnetic silver metal-organic frameworks. Analytica Chimica Acta, 2022, 1195, 339450.	2.6	10
159	Excess iodine as the interface recombination center limiting the open-circuit voltage of CuI-based perovskite planar solar cell. Journal of Materials Science: Materials in Electronics, 2018, 29, 8838-8846.	1.1	9
160	Large-area CsPbBr3 perovskite films grown with effective one-step RF-magnetron sputtering. Journal of Applied Physics, 2021, 129, .	1.1	9
161	Enhanced photoluminescence of CsPbBr_{3-x}I_x nanocrystals via plasmonic Au nanoarrays. Optics Express, 2021, 29, 36988.	1.7	9
162	Bi3+ and Eu3+ co-doped CsPbCl3 perovskite quantum dots with efficient controllable blue emission via energy transfer. Journal of Luminescence, 2022, 247, 118901.	1.5	9

#	Article	IF	Citations
163	Indium-free Cu/fluorine doped ZnO composite transparent conductive electrodes with stretchable and flexible performance on poly(ethylene terephthalate) substrate. Applied Surface Science, 2015, 332, 549-556.	3.1	8
164	Ultrafast synthesis of SiC@graphene nanocomposites by one-step laser induced fragmentation and decomposition. Ceramics International, 2018, 44, 19028-19032.	2.3	8
165	High-performance Bi2O3-NC anodes through constructing carbon shells and oxygen vacancies for flexible battery-supercapacitor hybrid devices. Nanoscale Advances, 2021, 3, 593-603.	2.2	8
166	A novel phosphor of Cu⁺-doped PbBrOH: preparation, luminescence mechanism, and outstanding properties. Journal of Materials Chemistry C, 2021, 9, 9178-9187.	2.7	8
167	Growth temperature-dependent performance of planar CH₃NH₃PbI₃ solar cells fabricated by a two-step subliming vapor method below 120 Â°C. RSC Advances, 2016, 6, 47459-47467.	1.7	7
168	Threeâ€Dimensional Mesoporous Strawâ€like Co 3 O 4 Anode with Enhanced Electrochemical Performance for Lithiumâ€Ion Batteries. ChemistrySelect, 2019, 4, 6879-6885.	0.7	7
169	Hierarchical Porous Activated Carbon Obtained by a Novel Heatingâ€Rateâ€Induced Method for Lithiumâ€Ion Capacitor. ChemistrySelect, 2019, 4, 5300-5307.	0.7	7
170	Synthesis, luminescent properties and crystal stabilization of GdAG:Mn2+/Ce3+ via Y3+ doping for warm w-LED application. Optical Materials, 2021, 111, 110566.	1.7	7
171	In-situ fluorinated 2D/3D invert perovskite film solar cell with enhanced ambient stability. Solar Energy, 2021, 221, 583-590.	2.9	7
172	Heterostructural perovskite solar cell constructed with Li-doped p-MAPbI3/n-TiO2 PN junction. Solar Energy, 2021, 226, 446-454.	2.9	7
173	Study on organic-inorganic hybrid perovskite nanocrystals with regular morphologies and their effect on photoluminescence properties. Optics Express, 2020, 28, 10714.	1.7	7
174	Epitaxial Growth of Quasi-intrinsic CsPbBr₃ Film on a SrTiO₃ Substrate by Pulsed Laser Deposition. ACS Applied Electronic Materials, 2021, 3, 5592-5600.	2.0	7
175	Optical characterization of zinc oxide microlasers and microwire core-shell heterostructures. Journal of Vacuum Science & Technology B, 2009, 27, 1780.	1.3	6
176	Hierarchical Co₃O₄ Nanowires as Binder Free Electrodes for Reversible Lithium Storage. Chinese Journal of Chemistry, 2016, 34, 631-636.	2.6	6
177	Guanidinium cation passivated Pb-Cu alloyed perovskite for efficient low-toxicity solar cells. Applied Surface Science, 2021, 567, 150778.	3.1	6
178	Enhanced upconversion red light emission of TiO₂:Yb,Er thin film via Mn doping. Optics Express, 2021, 29, 23159.	1.7	5
179	Enhancing the bulk photovoltaic effect by tuning domain walls in epitaxial BiFeO₃ films. Nanotechnology, 2021, 32, 495402.	1.3	5
180	An ultrahigh 84.3% fill factor for efficient CH3NH3PbI3 P-i-N perovskite film solar cell. Solar Energy, 2022, 233, 271-277.	2.9	5

#	Article	IF	Citations
181	Cr2O3 interlayer at TiO2/perovskite interface propelling the efficiency improvement of perovskite solar cells. Surfaces and Interfaces, 2022, 29, 101761.	1.5	5
182	Aqueous Synthesis of CdTe and HgCdTe Quantum Dots and Their Application in Quantum Dot-Sensitized Solar Cells. Science of Advanced Materials, 2012, 4, 337-341.	0.1	4
183	Copper submicrospheres induced by pulsed laser-irradiation with enhanced tribology properties. New Journal of Chemistry, 2019, 43, 13526-13535.	1.4	4
184	Laurionite Competes with 2D Ruddlesdenâ€“Popper Perovskites During the Saturation Recrystallization Process. ACS Applied Materials & Interfaces, 2021, 13, 6505-6514.	4.0	4
185	Lead-free Cs2SnX6 (XÂ=ÂCl, Br, I) nanocrystals in mesoporous SiO2 with more stable emission from VIS to NIR light. Chemical Physics Letters, 2021, 782, 139023.	1.2	4
186	Sustainable fabrication of ultralong Pb(OH)Br nanowires and their conversion to luminescent CH₃NH₃PbBr₃ nanowires. Green Chemistry, 2021, 23, 7956-7962.	4.6	3
187	Impact of Ferroelectric Domain Structure on Bulk Photovoltaic Effect of Epitaxial BiFe_{1â^'}_xCo_xO₃ Films. Advanced Electronic Materials, 2022, 8, .	2.6	3
188	Tribology Properties: Laser Irradiationâ€Induced SiC@Graphene Subâ€Microspheres: A Bioinspired Coreâ€“Shell Structure for Enhanced Tribology Properties (Adv. Mater. Interfaces 5/2018). Advanced Materials Interfaces, 2018, 5, 1870021.	1.9	2
189	Enhancement of up-conversion luminescence through doping Ce3+ ions in YbxEr2â^'xTi2O7 thin films. Chemical Physics Letters, 2022, 795, 139498.	1.2	2
190	Zn1â^'x Mg x O (0â‰xâ‰0.05) nanowalls grown on catalyst-free sapphire substrates by high-pressure PLD and their photoluminescence properties. Applied Physics A: Materials Science and Processing, 2013, 111, 1119-1124.	1.1	1
191	One-step in-situ laser irradiation for unique flocculent carbon network-twined C/Si/SiC composite structure. Ceramics International, 2021, 47, 7101-7105.	2.3	1
192	Study on MA(Pb,Cu)Br3 Provskite Nanocrystal with Both Controlled Color Emission and Improved Stability. ES Materials & Manufacturing, 2020, , .	1.1	1
193	Modifying Jahn-Teller distortion by epitaxial stress in LaMnO3 films for tunning electron localization. Journal of Physics Condensed Matter, 2021, , .	0.7	1
194	Welded-Ag-nanowires/FTO conducting film with high transmittance and its application in transparent supercapacitors. IOP Conference Series: Materials Science and Engineering, 2017, 182, 012022.	0.3	0
195	Dopant compensation in p-type doped MAPb_{1â^'}_xCu_xI₃ alloyed perovskite crystals. Applied Physics Letters, 2022, 121, 012102.	1.5	0