

# Baochang Cheng

## List of Publications by Citations

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71  
papers

1,263  
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21  
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g-index

75  
ext. papers

1,500  
ext. citations

7.1  
avg, IF

4.41  
L-index

#	Paper	IF	Citations
71	Highly sensitive humidity sensor based on amorphous Al <sub>2</sub> O <sub>3</sub> nanotubes. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 1907-1912		111
70	Indium-Free Perovskite Solar Cells Enabled by Impermeable Tin-Oxide Electron Extraction Layers. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606656	24	61
69	From weed to multi-heteroatom-doped honeycomb-like porous carbon for advanced supercapacitors: A gelatinization-controlled one-step carbonization. <i>Journal of Power Sources</i> , <b>2018</b> , 402, 203-212	8.9	56
68	Nickel formate induced high-level in situ Ni-doping of g-C <sub>3</sub> N <sub>4</sub> for a tunable band structure and enhanced photocatalytic performance. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 22385-22397	13	54
67	Spinel Indium Sulfide Precursor for the Phase-Selective Synthesis of CuInS Nanocrystals with Zinc-Blende, Wurtzite, and Spinel Structures. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 2991-2997	9.6	52
66	Direct growth of nickel terephthalate on Ni foam with large mass-loading for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 19323-19332	13	48
65	General synthesis of rare-earth orthochromites with quasi-hollow nanostructures and their magnetic properties. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 11982	13	47
64	SnO <sub>2</sub> hierarchical nanostructure and its strong narrow-band photoluminescence. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 1320		42
63	BaAl <sub>2</sub> O <sub>4</sub> :Eu <sup>2+</sup> , Dy <sup>3+</sup> Nanotube Synthesis by Heating Conversion of Homogeneous Coprecipitates and Afterglow Characteristics. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 1708-1713	3.8	40
62	Long-persistent phosphorescent SrAl <sub>2</sub> O <sub>4</sub> :Eu <sup>2+</sup> , Dy <sup>3+</sup> nanotubes. <i>Chemical Communications</i> , <b>2009</b> , 944-65.8		39
61	Conversion of biomass waste to multi-heteroatom-doped carbon networks with high surface area and hierarchical porosity for advanced supercapacitors. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 14536-14547	4.3	33
60	Surface state controlled ultrahigh selectivity and sensitivity for UV photodetectors based on individual SnO <sub>2</sub> nanowires. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 8399-8406	7.1	32
59	Disorder-induced Raman scattering effects in one-dimensional ZnO nanostructures by incorporation and anisotropic distribution of Dy and Li codopants. <i>Journal of Raman Spectroscopy</i> , <b>2010</b> , 41, 1221-1226	2.3	32
58	Power- and energy-dependent photoluminescence of Eu <sup>3+</sup> incorporated and segregated ZnO polycrystalline nanobelts synthesized by a facile combustion method followed by heat treatment. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 7821		30
57	Individual Ohmic contacted ZnO/Zn <sub>2</sub> SnO <sub>4</sub> radial heterostructured nanowires as photodetectors with a broad-spectral-response: injection of electrons into/from interface states. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 1808	7.1	28
56	Terephthalate-based cobalt hydroxide: a new electrode material for supercapacitors with ultrahigh capacitance. <i>Dalton Transactions</i> , <b>2018</b> , 47, 14958-14967	4.3	28
55	SrAl <sub>x</sub> O <sub>y</sub> :Eu <sup>2+</sup> , Dy <sup>3+</sup> (x = 4) nanostructures: Structure and morphology transformations and long-lasting phosphorescence properties. <i>CrystEngComm</i> , <b>2011</b> , 13, 3545	3.3	27

54	PMMA interlayer-modulated memory effects by space charge polarization in resistive switching based on CuSCN-nanopyramids/ZnO-nanorods p-n heterojunction. <i>Scientific Reports</i> , <b>2015</b> , 5, 17859	4.9	26
53	Self-template formation and properties study of Cr <sub>2</sub> O <sub>3</sub> nanoparticle tubes. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 1643-1651		26
52	Individual ZnO nanowires for photodetectors with wide response range from solar-blind ultraviolet to near-infrared modulated by bias voltage and illumination intensity. <i>Optics Express</i> , <b>2013</b> , 21, 29719-3033	3.3	26
51	Individual Zn <sub>2</sub> SnO <sub>4</sub> -sheathed ZnO heterostructure nanowires for efficient resistive switching memory controlled by interface states. <i>Scientific Reports</i> , <b>2013</b> , 3, 3249	4.9	24
50	Effects of interface states on photoexcited carriers in ZnO/Zn(2)SnO(4) type-II radial heterostructure nanowires. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 4057-62	9.5	21
49	A facile in situ reduction route for preparation of spinel CoCr <sub>2</sub> O <sub>4</sub> polycrystalline nanosheets and their magnetic properties. <i>CrystEngComm</i> , <b>2014</b> , 16, 277-286	3.3	18
48	Space charge polarization-induced symmetrical negative resistive switching in individual p-type GeSe <sub>2</sub> :Bi superstructure nanobelts for non-volatile memory. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 5207-5213	7.1	17
47	Modulation of surface trap induced resistive switching by electrode annealing in individual PbS micro/nanowire-based devices for resistance random access memory. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 20812-8	9.5	16
46	SrAl <sub>2</sub> O <sub>4</sub> :Eu <sup>2+</sup> ,Dy <sup>3+</sup> nanobelts: Synthesis by combustion and properties of long-persistent phosphorescence. <i>Journal of Materials Research</i> , <b>2011</b> , 26, 2311-2315	2.5	16
45	Enhanced effect of electron-hole plasma emission in Dy, Li codoped ZnO nanostructures. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 014311	2.5	16
44	Bias-Controlled Tunable Electronic Transport with Memory Characteristics in an Individual ZnO Nanowire for Realization of a Self-Driven UV Photodetector with Two Symmetrical Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 14932-14943	9.5	15
43	Light-Induced Anomalous Resistive Switches Based on Individual Organic/Inorganic Halide Perovskite Micro-/Nanofibers. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1800206	6.4	15
42	Ordered Zinc Antimonate Nanoisland Attachment and Morphology Control of ZnO Nanobelts by Sb Doping. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 9638-9643	3.8	15
41	A surface state-controlled, high-performance, self-powered photovoltaic detector based on an individual SnS nanorod with a symmetrical electrode structure. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 9071-9080	7.1	15
40	Tunable hysteresis behaviour related to trap filling dependence of surface barrier in an individual CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> micro/nanowire. <i>Nanoscale</i> , <b>2019</b> , 11, 3360-3369	7.7	14
39	Controllable switching properties in an individual CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> micro/nanowire-based transistor for gate voltage and illumination dual-driving non-volatile memory. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 4259-4266	7.1	14
38	Trapping states in CdS:Eu nanobelts studied by excitation-dependent photoluminescence. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 014309	2.5	14
37	Erasable memory properties of spectral selectivity modulated by temperature and bias in an individual CdS nanobelt-based photodetector. <i>Nanoscale Horizons</i> , <b>2019</b> , 4, 138-147	10.8	13

- 36 Synthesis and magnetic properties of MNb<sub>2</sub>O<sub>6</sub> (M = Fe, Co, Ni) nanoparticles. *RSC Advances*, **2014**, 4, 52740-52748 3.7 12
- 35 Rewritable non-volatile stress information memory by bulk trap-induced giant piezoresistance effect in individual PbS micro/nanowires. *Journal of Materials Chemistry C*, **2017**, 5, 229-237 7.1 11
- 34 The ferromagnetic/antiferromagnetic properties of NiCr<sub>2</sub>O<sub>3</sub> composite hollow spheres prepared by an in situ reduction method. *CrystEngComm*, **2014**, 16, 1322-1333 3.3 11
- 33 Carbon-encapsulated CdSe quantum dot inorganic hybrid nanobelts for high performance photoelectronic devices based on the efficient separation and transfer of photoinduced holes. *Journal of Materials Chemistry C*, **2015**, 3, 2471-2478 7.1 9
- 32 Fabrication of BiSI nanorod cluster films for enhanced photodetection performance. *Dalton Transactions*, **2018**, 47, 3408-3416 4.3 9
- 31 Trap-Related Nonvolatile Negative Photoconductivity in a Single Ag@Al<sub>2</sub>O<sub>3</sub> Hybrid Nanorod for a Photomemory with Light-Writing and Bias-Erasing. *Advanced Optical Materials*, **2019**, 7, 1901154 8.1 9
- 30 Preparation and magnetic and microwave absorption properties of MnNb<sub>2</sub>O<sub>6</sub> ellipsoid-like hierarchical structures. *CrystEngComm*, **2014**, 16, 7949-7955 3.3 9
- 29 Lattice variation and Raman spectroscopy in hierarchical heterostructures of zinc antimonate nanoislands on ZnO nanobelts. *Nanotechnology*, **2010**, 21, 025704 3.4 9
- 28 Enhanced Giant Piezoresistance Performance of Sandwiched ZnS/Si/SiO Radial Heterostructure Nanotubes for Nonvolatile Stress Memory with Repeatable Writing and Erasing. *ACS Applied Materials & Interfaces*, **2016**, 8, 34648-34658 9.5 8
- 27 A Hierarchically Porous Hollow Structure of Layered Bi<sub>2</sub>TiO<sub>4</sub>F<sub>2</sub> for Efficient Photocatalysis. *European Journal of Inorganic Chemistry*, **2017**, 2017, 1892-1899 2.3 7
- 26 Gate-Free Controlled Multibit Memories Based on Individual ZnO:In Micro/Nanowire Back-to-Back Diodes. *Advanced Electronic Materials*, **2016**, 2, 1500395 6.4 7
- 25 Reversible Negative Resistive Switching in an Individual Fe@AlO Hybrid Nanotube for Nonvolatile Memory. *ACS Applied Materials & Interfaces*, **2018**, 10, 19002-19009 9.5 7
- 24 Ultrahigh performance negative thermal-resistance switching based on individual ZnO:K, Cl micro/nanowires for multibit nonvolatile resistance random access memory dual-written/erased repeatedly by temperature or bias. *Journal of Materials Chemistry C*, **2015**, 3, 12220-12229 7.1 7
- 23 Solution Growth of BiSI Nanorod Arrays on a Tungsten Substrate for Solar Cell Application. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 13488-13496 8.3 6
- 22 Enhanced visible light catalysis activity of CdS-sheathed SrAlO:Eu,Dy nanocomposites. *Dalton Transactions*, **2018**, 47, 7941-7948 4.3 6
- 21 Phase-controlled growth of nickel hydroxide nanostructures on nickel foam for enhanced supercapacitor performance. *Journal of Energy Storage*, **2021**, 43, 103171 7.8 6
- 20 Isomorphous Substitution Synthesis and Photoelectric Properties of Spinel AgInSnS<sub>4</sub> Nanosheets. *Chemistry of Materials*, **2020**, 32, 9713-9720 9.6 5
- 19 Synthesis and photoluminescence properties of a new green emitting phosphor La<sub>2</sub>SrB<sub>10</sub>O<sub>19</sub>:Tb<sup>3+</sup>. *Optical Materials*, **2013**, 35, 1609-1611 3.3 4

18	Modulable hysteresis behavior controlled by water-promoted decomposition in a single CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> micro/nanowire. <i>Applied Surface Science</i> , <b>2020</b> , 507, 145048	6.7	4
17	Preparation of quinary CuNi Zn <sub>2</sub> InS <sub>4</sub> nanocrystals with wurtzite structure and tunable band gap. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 820, 153436	5.7	4
16	A surface photovoltaic effect-related high-performance photodetector based on a single CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> micro/nanowire. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 6558-6564	7.1	4
15	Electric modulation of conduction in MAPbBr <sub>3</sub> single crystals. <i>Journal of Advanced Ceramics</i> , <b>2021</b> , 10, 320-327	10.7	4
14	Ultrahigh stress response and storage properties in a single CdS nanobelt-based flexible device for an erasable nonvolatile stress sensing and memory effect. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 7654-7663	7.4	3
13	Back-to-back Interface diodes induced symmetrical negative differential resistance and reversible bipolar resistive switching in CuSCN trigonal pyramid micro/nanoarray. <i>Applied Surface Science</i> , <b>2019</b> , 480, 13-25	6.7	3
12	BiSI nanorods: a new candidate for photothermal therapy in the first and second biological near-infrared windows. <i>Nanoscale</i> , <b>2021</b> , 13, 5369-5382	7.7	3
11	Surface traps-related nonvolatile resistive switching memory effect in a single SnO <sub>2</sub> :Sm nanowire. <i>Journal of Semiconductors</i> , <b>2020</b> , 41, 012101	2.3	2
10	An individual sandwich hybrid nanostructure of cobalt disulfide in-situ grown on N doped carbon layer wrapped on multi-walled carbon nanotubes for high-efficiency lithium sulfur batteries. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> ,	9.3	2
9	Switchable photovoltaic and enhanced photoelectricity in a single PbS@CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> hybrid composite micro/nanowire. <i>Chemical Engineering Journal</i> , <b>2021</b> , 422, 130136	14.7	2
8	Pore regulation of well-developed honeycomb-like carbon materials from <i>Zizania latifolia</i> for supercapacitors. <i>Journal of Energy Storage</i> , <b>2022</b> , 52, 104910	7.8	2
7	Wurtzite CuNiInS Nanocrystals: A Quaternary Chalcogenide Magnetic Semiconductor. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 15283-15290	5.1	1
6	Revealing the synergistic mechanism of multiply nanostructured VO hollow nanospheres integrated with doped N, Ni heteroatoms, in-situ grown carbon nanotubes and coated carbon nanolayers for the enhancement of lithium-sulfur batteries.. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 612, 760-771	9.3	1
5	Self-supported electrode based on two-dimensional NiPS for supercapacitor application.. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 616, 401-412	9.3	1
4	Unique multi-hierarchical Z-scheme heterojunction of branching SnIn <sub>4</sub> S <sub>8</sub> nanosheets on ZnIn <sub>2</sub> S <sub>4</sub> nanopetals for boosted photocatalytic performance. <i>Separation and Purification Technology</i> , <b>2022</b> , 121267	8.3	0
3	Spatially distributed Z-scheme heterojunction of g-C <sub>3</sub> N <sub>4</sub> /SnIn <sub>4</sub> S <sub>8</sub> for enhanced photocatalytic hydrogen production and pollutant degradation. <i>Applied Surface Science</i> , <b>2022</b> , 598, 153870	6.7	0
2	Hydrothermal growth of ferrous hydroxide terephthalate as a new positive electrode material for supercapacitors. <i>Dalton Transactions</i> , <b>2018</b> , 47, 12056-12060	4.3	
1	Giant Piezoresistive Effect of CdS@C Hybrid Nanobelts for Volatile Real-Time Sensor and Erasable Nonvolatile Memory to Stress. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 22785-22795	9.5	

