

# Baochang Cheng

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71  
papers

1,263  
citations

21  
h-index

32  
g-index

75  
ext. papers

1,500  
ext. citations

7.1  
avg, IF

4.41  
L-index

#	Paper	IF	Citations
71	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
70	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
69	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	8.2	0
68	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
67	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
66	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
65	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	
64	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
63	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
62	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
61	Phase-controlled growth of nickel hydroxide nanostructures on nickel foam for enhanced supercapacitor performance. <i>Journal of Energy Storage</i> , <b>2021</b> , 43, 103171	7.8	6
60	Isomorphous Substitution Synthesis and Photoelectric Properties of Spinel AgInSnS <sub>4</sub> Nanosheets. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 9713-9720	9.6	5
59	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
58	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
57	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
56	Solution Growth of BiSI Nanorod Arrays on a Tungsten Substrate for Solar Cell Application. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 13488-13496	8.3	6
55	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

54	Nickel formate induced high-level in situ Ni-doping of g-C3N4 for a tunable band structure and enhanced photocatalytic performance. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 22385-22397	13	54
53	Tunable hysteresis behaviour related to trap filling dependence of surface barrier in an individual CHNHPbI micro/nanowire. <i>Nanoscale</i> , <b>2019</b> , 11, 3360-3369	7.7	14
52	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 <sup>3</sup>	7.1	14
51	Controllable switching properties in an individual CH3NH3PbI3 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
50	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
49	Wurtzite CuNiInS Nanocrystals: A Quaternary Chalcogenide Magnetic Semiconductor. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 15283-15290	5.1	1
48	Trap-Related Nonvolatile Negative Photoconductivity in a Single Ag@Al2O3 Hybrid Nanorod for a Photomemory with Light-Writing and Bias-Erasing. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1901154	8.1	9
47	Back-to-back Interface diodes induced symmetrical negative differential resistance and reversible bipolar resistive switching in ECuSCN trigonal pyramid micro/nanoarray. <i>Applied Surface Science</i> , <b>2019</b> , 480, 13-25	6.7	3
46	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
45	Fabrication of BiSI nanorod cluster films for enhanced photodetection performance. <i>Dalton Transactions</i> , <b>2018</b> , 47, 3408-3416	4.3	9
44	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
43	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	
42	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
41	Reversible Negative Resistive Switching in an Individual Fe@AlO Hybrid Nanotube for Nonvolatile Memory. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 19002-19009	9.5	7
40	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
39	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
38	Enhanced visible light catalysis activity of CdS-sheathed SrAlO:Eu,Dy nanocomposites. <i>Dalton Transactions</i> , <b>2018</b> , 47, 7941-7948	4.3	6
37	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

36	Rewritable non-volatile stress information memory by bulk trap-induced giant piezoresistance effect in individual PbS micro/nanowires. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 229-237	7.1	11
35	A Hierarchically Porous Hollow Structure of Layered Bi <sub>2</sub> TiO <sub>4</sub> F <sub>2</sub> for Efficient Photocatalysis. <i>European Journal of Inorganic Chemistry</i> , <b>2017</b> , 2017, 1892-1899	2.3	7
34	Indium-Free Perovskite Solar Cells Enabled by Impermeable Tin-Oxide Electron Extraction Layers. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606656	24	61
33	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
32	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
31	Gate-Free Controlled Multibit Memories Based on Individual ZnO:In Micro/Nanowire Back-to-Back Diodes. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1500395	6.4	7
30	Enhanced Giant Piezoresistance Performance of Sandwiched ZnS/Si/SiO Radial Heterostructure Nanotubes for Nonvolatile Stress Memory with Repeatable Writing and Erasing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 34648-34658	9.5	8
29	Carbon-encapsulated CdSe quantum dot inorganic hybrid nanobelts for high performance photoelectronic devices based on the efficient separation and transfer of photoinduced holes. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 2471-2478	7.1	9
28	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
27	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
26	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. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 12220-12229	7.1	7
25	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
24	Synthesis and magnetic properties of MNb <sub>2</sub> O <sub>6</sub> (M = Fe, Co, Ni) nanoparticles. <i>RSC Advances</i> , <b>2014</b> , 4, 52740-52748	3.7	12
23	Effects of interface states on photoexcited carriers in ZnO/Zn <sub>2</sub> SnO <sub>4</sub> type-II radial heterostructure nanowires. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 4057-62	9.5	21
22	Preparation and magnetic and microwave absorption properties of MnNb <sub>2</sub> O <sub>6</sub> ellipsoid-like hierarchical structures. <i>CrystEngComm</i> , <b>2014</b> , 16, 7949-7955	3.3	9
21	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
20	The ferromagnetic/antiferromagnetic properties of Ni/Cr <sub>2</sub> O <sub>3</sub> composite hollow spheres prepared by an in situ reduction method. <i>CrystEngComm</i> , <b>2014</b> , 16, 1322-1333	3.3	11
19	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

18	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
17	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
16	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> . <i>Optical Materials</i> , <b>2013</b> , 35, 1609-1611	3.3	4
15	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
14	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
13	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
12	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
11	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
10	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
9	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
8	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
7	Lattice variation and Raman spectroscopy in hierarchical heterostructures of zinc antimonate nanoislands on ZnO nanobelts. <i>Nanotechnology</i> , <b>2010</b> , 21, 025704	3.4	9
6	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
5	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
4	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
3	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
2	SnO <sub>2</sub> hierarchical nanostructure and its strong narrow-band photoluminescence. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 1320		42
1	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

