

Yongcai Zhang

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.

113
papers

4,665
citations

33
h-index

65
g-index

121
ext. papers

5,542
ext. citations

6.1
avg. IF

5.91
L-index

#	Paper	IF	Citations
113	NIR Photothermal-Enhanced Electrocatalytic and Photoelectrocatalytic Hydrogen Evolution by Polyaniline/SnS ₂ Nanocomposites. <i>ACS Applied Nano Materials</i> , 2022 , 5, 391-400	5.6	3
112	Oxygen vacancies induced narrow band gap of BiOCl for efficient visible-light catalytic performance from double radicals. <i>Journal of Materials Science and Technology</i> , 2022 , 114, 240-248	9.1	6
111	Morphology-controlled hydrothermal synthesis and photocatalytic Cr(VI) reduction properties of BiFeO ₃ . <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 635, 128069	5.1	6
110	Insight into the growth mechanism of AgIn ₅ S ₈ nanoparticles in a low temperature co-precipitation process and their visible-light-driven photocatalytic activities. <i>Materials Chemistry and Physics</i> , 2022 , 276, 125333	4.4	2
109	Tuned structures and enhanced photoluminescence of WO ₃ -nanomaterials by TiO ₂ . <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022 , 275, 115516	3.1	2
108	Ultrasonic-Assisted Synthesis of CdS/Microcrystalline Cellulose Nanocomposites With Enhanced Visible-Light-Driven Photocatalytic Degradation of MB and the Corresponding Mechanism Study.. <i>Frontiers in Chemistry</i> , 2022 , 10, 892680	5	0
107	Visible light photocatalytic reduction of Cr(VI) over polyimide in the presence of small molecule carboxylic acids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 642, 128657	5.1	1
106	Snowflake-Like Cu ₂ S/MoS ₂ /Pt heterostructure with near infrared photothermal-enhanced electrocatalytic and photoelectrocatalytic hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2022 , 315, 121540	21.8	4
105	Design and synthesis of a new high-efficiency CeO ₂ /SnS ₂ /polyaniline ternary composite visible-light photocatalyst. <i>Colloids and Interface Science Communications</i> , 2021 , 45, 100550	5.4	2
104	Efficient photocatalytic reduction of aqueous Cr (VI) by Zr ⁴⁺ doped and polyaniline coupled SnS ₂ nanoflakes. <i>Separation and Purification Technology</i> , 2021 , 283, 120161	8.3	17
103	Fast preparation of oxygen vacancy-rich 2D/2D bismuth oxyhalides-reduced graphene oxide composite with improved visible-light photocatalytic properties by solvent-free grinding. <i>Journal of Cleaner Production</i> , 2021 , 328, 129651	10.3	8
102	Synthesis of CPVC-modified SnS ₂ /TiO ₂ composite with improved visible light-driven photocatalysis. <i>Materials Research Bulletin</i> , 2021 , 135, 111125	5.1	10
101	Room temperature photocatalytic deposition of Au nanoparticles on SnS ₂ nanoplates for enhanced photocatalysis. <i>Powder Technology</i> , 2021 , 383, 371-380	5.2	14
100	Synthesis and application of Fe ₃ O ₄ /FeWO ₄ composite as an efficient and magnetically recoverable visible light-driven photocatalyst for the reduction of Cr(VI). <i>Separation and Purification Technology</i> , 2021 , 263, 118401	8.3	41
99	Facile pH-controlled synthesis of MnWO ₄ nanoparticles and nanorods and their heterogeneous Fenton-like catalytic activity. <i>Materials Letters</i> , 2021 , 293, 129662	3.3	1
98	Alternative synthesis of nitrogen and carbon co-doped TiO ₂ for removing fluoroquinolone antibiotics in water under visible light. <i>Catalysis Today</i> , 2021 , 361, 11-16	5.3	14
97	Simple fabrication of Z-scheme MgIn ₂ S ₄ /Bi ₂ WO ₆ hierarchical heterostructures for enhancing photocatalytic reduction of Cr(VI). <i>Catalysis Science and Technology</i> , 2021 , 11, 6271-6280	5.5	3

96	Bird nest-like zinc oxide nanostructures for sensitive electrochemical glucose biosensor. <i>Chinese Chemical Letters</i> , 2021 ,	8.1	5
95	Synergistic effect of reduced graphene oxide and near-infrared light on MoS ₂ -mediated electrocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2021 , 418, 129343	14.7	16
94	Effects of precursors on the phase, magnetic and photocatalytic properties of nano Fe ₂ O ₃ synthesized by low temperature calcination. <i>Colloids and Interface Science Communications</i> , 2021 , 44, 100504	5.4	1
93	Single-step synthesis of TiO ₂ /WO ₃ hybrid nanomaterials in ethanoic acid: Structure and photoluminescence properties. <i>Applied Surface Science</i> , 2021 , 562, 150180	6.7	0
92	Modification of ZnFe ₂ O ₄ by conjugated polyvinyl chloride derivative for more efficient photocatalytic reduction of Cr(VI). <i>Journal of Molecular Structure</i> , 2021 , 1242, 130734	3.4	7
91	Fabrication of novel Z-scheme SrTiO ₃ /MnFe ₂ O ₄ system with double-response activity for simultaneous microwave-induced and photocatalytic degradation of tetracycline and mechanism insight. <i>Chemical Engineering Journal</i> , 2020 , 400, 125981	14.7	28
90	The facile synthesis and enhanced photocatalytic properties of ZnO@ZnS modified with Ag ₀ via in-situ ion exchange. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 591, 124556	5.1	6
89	SnO ₂ /SnS ₂ nanocomposite anchored on nitrogen-doped RGO for improved photocatalytic reduction of aqueous Cr(VI). <i>Powder Technology</i> , 2020 , 363, 337-348	5.2	30
88	A streptavidin-functionalized tin disulfide nanoflake-based ultrasensitive electrochemical immunosensor for the detection of tumor markers. <i>New Journal of Chemistry</i> , 2020 , 44, 6010-6014	3.6	10
87	In situ preparation of Bi ₂ S ₃ nanoribbon-anchored BiVO ₄ nanoscroll heterostructures for the catalysis of Cr(VI) photoreduction. <i>Catalysis Science and Technology</i> , 2020 , 10, 3843-3847	5.5	6
86	Magnetically recoverable MgFe ₂ O ₄ /conjugated polyvinyl chloride derivative nanocomposite with higher visible-light photocatalytic activity for treating Cr(VI)-polluted water. <i>Separation and Purification Technology</i> , 2020 , 236, 116272	8.3	59
85	SnSe Nanoparticles Chemically Embedded in a Carbon Shell for High-Rate Sodium-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 2346-2353	9.5	24
84	Hollow BiVO ₄ /Bi ₂ S ₃ cruciate heterostructures with enhanced visible-light photoactivity. <i>Catalysis Science and Technology</i> , 2019 , 9, 182-187	5.5	10
83	Design and preparation of SnO ₂ /SnS ₂ /conjugated polyvinyl chloride derivative ternary composite with enhanced visible-light photocatalytic activity. <i>Materials Research Bulletin</i> , 2019 , 118, 110524	5.1	13
82	The application of transition metal cobaltites in electrochemistry. <i>Energy Storage Materials</i> , 2019 , 23, 439-465	19.4	31
81	Preparation of SnO ₂ /conjugated polyvinyl alcohol derivative nanohybrid with good performance in visible light-induced photocatalytic reduction of Cr(VI). <i>Materials Science in Semiconductor Processing</i> , 2019 , 102, 104586	4.3	10
80	NH ₄ Cl-assisted in air, low temperature synthesis of SnS ₂ nanoflakes with high visible-light-activated photocatalytic activity. <i>Materials Letters</i> , 2019 , 234, 361-363	3.3	7
79	Polyaniline modified SnO ₂ nanoparticles for efficient photocatalytic reduction of aqueous Cr(VI) under visible light. <i>Separation and Purification Technology</i> , 2018 , 201, 120-129	8.3	80

78	Modification of SnO ₂ nanoparticles by conjugated derivative of polyvinyl chloride for efficient photocatalytic reduction of Cr(VI) under visible-light. <i>Materials Letters</i> , 2018 , 218, 173-176	3.3	4
77	Synthesis of perovskite-type SrTiO ₃ nanoparticles for sensitive electrochemical biosensing applications. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 810, 95-99	4.1	17
76	In-situ hydrothermal synthesis of CeO ₂ /SnS ₂ heterojunction for use as a new efficient visible-light-driven photocatalyst. <i>Materials Letters</i> , 2018 , 213, 154-157	3.3	13
75	Exceptional synergistic enhancement of the photocatalytic activity of SnS ₂ by coupling with polyaniline and N-doped reduced graphene oxide. <i>Applied Catalysis B: Environmental</i> , 2018 , 236, 53-63	21.8	205
74	A new efficient visible-light photocatalyst made of SnO ₂ and cyclized polyacrylonitrile. <i>Materials Research Bulletin</i> , 2018 , 97, 517-522	5.1	17
73	Platinum nanoparticle-assembled nanoflake-like tin disulfide for enzyme-based amperometric sensing of glucose. <i>Mikrochimica Acta</i> , 2017 , 184, 2357-2363	5.8	11
72	A new high efficiency visible-light photocatalyst made of SnS ₂ and conjugated derivative of polyvinyl alcohol and its application to Cr(VI) reduction. <i>Chemical Engineering Journal</i> , 2017 , 324, 140-153	14.7	82
71	Perovskite-type calcium titanate nanoparticles as novel matrix for designing sensitive electrochemical biosensing. <i>Biosensors and Bioelectronics</i> , 2017 , 96, 220-226	11.8	31
70	Low temperature gel-combustion synthesis of porous nanostructure LaFeO ₃ with enhanced visible-light photocatalytic activity in reduction of Cr(VI). <i>Materials Letters</i> , 2017 , 197, 120-122	3.3	13
69	Polyaniline modified SnS ₂ as a novel efficient visible-light-driven photocatalyst. <i>Materials Letters</i> , 2017 , 192, 149-152	3.3	31
68	A glassy carbon electrode modified with a platinum nanoparticle/cage-like PbS nanostructure for direct electron transfer to enzymes and for use in biosensing. <i>Mikrochimica Acta</i> , 2017 , 184, 4845-4852	5.8	2
67	Nitric acid-assisted one-step solvothermal synthesis of visible-light-active N-doped ThO ₂ for use as a potential photocatalyst in the reduction of Cr(VI). <i>Catalysis Communications</i> , 2017 , 99, 66-70	3.2	4
66	Scalable low temperature in air solid phase synthesis of porous flower-like hierarchical nanostructure SnS ₂ with superior performance in the adsorption and photocatalytic reduction of aqueous Cr(VI). <i>Separation and Purification Technology</i> , 2017 , 189, 153-161	8.3	46
65	A new efficient visible-light-driven composite photocatalyst comprising ZnFe ₂ O ₄ nanoparticles and conjugated polymer from the dehydrochlorination of polyvinyl chloride. <i>Materials Letters</i> , 2017 , 187, 123-125	3.3	13
64	Facile microfluidic synthesis of copolymer hydrogel beads for the removal of heavy metal ions. <i>Journal of Materials Science</i> , 2016 , 51, 10375-10385	4.3	12
63	Development of a new efficient visible-light-driven photocatalyst from SnS ₂ and polyvinyl chloride. <i>Journal of Catalysis</i> , 2016 , 344, 692-700	7.3	117
62	One-step solvothermal preparation of visible light-driven N-modified Nb ₂ O ₅ photocatalyst using nitric acid as the nitrogen source. <i>Materials Letters</i> , 2016 , 165, 156-159	3.3	6
61	Enhancement of the Cr(VI) adsorption and photocatalytic reduction activity of g-C ₃ N ₄ by hydrothermal treatment in HNO ₃ aqueous solution. <i>Applied Catalysis A: General</i> , 2016 , 521, 9-18	5.1	95

60	One-step solvothermal preparation of silver-ZnO hybrid nanorods for use in enzymatic and direct electron-transfer based biosensing of glucose. <i>Mikrochimica Acta</i> , 2016 , 183, 1705-1712	5.8	13
59	Enhancement of the photocatalytic activity of g-C ₃ N ₄ via treatment in dilute NaOH aqueous solution. <i>Materials Letters</i> , 2016 , 171, 79-82	3.3	27
58	Partially conjugated polyvinyl chloride-modified TiO ₂ nanoparticles for efficient visible-light-driven photocatalytic reduction of aqueous Cr(VI). <i>Materials Letters</i> , 2016 , 163, 262-265	3.3	13
57	HNO ₃ -involved one-step solvothermal preparation of nanocrystalline N-modified CeO ₂ with enhanced visible-light activity. <i>Materials Letters</i> , 2015 , 141, 298-301	3.3	6
56	Platinum nanoparticles functionalized nitrogen doped graphene platform for sensitive electrochemical glucose biosensing. <i>Analytica Chimica Acta</i> , 2015 , 871, 35-42	6.6	41
55	One-pot facile synthesis of branched Ag-ZnO heterojunction nanostructure as highly efficient photocatalytic catalyst. <i>Applied Surface Science</i> , 2015 , 353, 949-957	6.7	36
54	An enzymatic glucose biosensor based on a glassy carbon electrode modified with cylinder-shaped titanium dioxide nanorods. <i>Mikrochimica Acta</i> , 2015 , 182, 1841-1848	5.8	13
53	Acid-treated g-C ₃ N ₄ with improved photocatalytic performance in the reduction of aqueous Cr(VI) under visible-light. <i>Separation and Purification Technology</i> , 2015 , 142, 251-257	8.3	144
52	Synthesis of SnS ₂ /WO ₃ nanocomposite with enhanced photocatalytic activity. <i>Materials Letters</i> , 2014 , 121, 44-46	3.3	17
51	Solvothermal synthesis of nonmetals-modified SnO ₂ nanoparticles with high visible-light-activated photocatalytic activity in the reduction of aqueous Cr(VI). <i>Separation and Purification Technology</i> , 2014 , 129, 90-95	8.3	18
50	Cage-like PbS nanostructure for the construction of novel glucose electrochemical biosensor. <i>Sensors and Actuators B: Chemical</i> , 2014 , 190, 549-554	8.5	29
49	One-step solvothermal synthesis of SnIn ₄ S ₈ /TiO ₂ nanocomposite with enhanced visible-light-activated photocatalytic activity. <i>Materials Letters</i> , 2014 , 123, 153-155	3.3	13
48	Solvothermal synthesis of visible-light-active N-modified ZrO ₂ nanoparticles. <i>Materials Letters</i> , 2014 , 130, 139-142	3.3	24
47	Novel synthesis and characterization of SnS ₂ /SnO ₂ nanocomposite photocatalyst. <i>Materials Letters</i> , 2014 , 130, 104-106	3.3	11
46	Facile synthesis of tetragonal columnar-shaped TiO ₂ nanorods for the construction of sensitive electrochemical glucose biosensor. <i>Biosensors and Bioelectronics</i> , 2014 , 54, 528-33	11.8	69
45	HNO ₃ -involved one-step low temperature solvothermal synthesis of N-doped TiO ₂ nanocrystals for efficient photocatalytic reduction of Cr(VI) in water. <i>Applied Catalysis B: Environmental</i> , 2013 , 142-143, 249-258	21.8	161
44	Carbon nanotubes-nanoflake-like SnS ₂ nanocomposite for direct electrochemistry of glucose oxidase and glucose sensing. <i>Biosensors and Bioelectronics</i> , 2013 , 41, 698-703	11.8	82
43	Green synthesis of hollow-nanostructured ZnO ₂ and ZnO. <i>Materials Letters</i> , 2012 , 71, 154-156	3.3	16

42	Low temperature preparation and optical properties of K ₂ Ti ₆ O ₁₃ . <i>Materials Letters</i> , 2012 , 79, 136-138	3.3	21
41	Tin disulfide nanoflakes decorated with gold nanoparticles for direct electrochemistry of glucose oxidase and glucose biosensing. <i>Mikrochimica Acta</i> , 2012 , 179, 265-272	5.8	22
40	Carbon nanotubes-functionalized urchin-like In ₂ S ₃ nanostructure for sensitive and selective electrochemical sensing of dopamine. <i>Mikrochimica Acta</i> , 2012 , 177, 381-387	5.8	28
39	One-step in situ solvothermal synthesis of SnS ₂ /TiO ₂ nanocomposites with high performance in visible light-driven photocatalytic reduction of aqueous Cr(VI). <i>Applied Catalysis B: Environmental</i> , 2012 , 123-124, 18-26	21.8	215
38	High-performance visible-light-driven SnS ₂ /SnO ₂ nanocomposite photocatalyst prepared via in situ hydrothermal oxidation of SnS ₂ nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 1528-37	9.5	275
37	Size-tunable hydrothermal synthesis of SnS ₂ nanocrystals with high performance in visible light-driven photocatalytic reduction of aqueous Cr(VI). <i>Environmental Science & Technology</i> , 2011 , 45, 9324-31	10.3	334
36	Size-controlled hydrothermal synthesis of SnS ₂ nanoparticles with high performance in visible light-driven photocatalytic degradation of aqueous methyl orange. <i>Separation and Purification Technology</i> , 2011 , 81, 101-107	8.3	115
35	Green hydrothermal synthesis and optical absorption properties of ZnO ₂ nanocrystals and ZnO nanorods. <i>Materials Letters</i> , 2011 , 65, 639-641	3.3	23
34	Low temperature synthesis and optical properties of CaTiO ₃ nanoparticles from Ca(NO ₃) ₂ ·4H ₂ O and TiO ₂ nanocrystals. <i>Materials Letters</i> , 2011 , 65, 1556-1558	3.3	19
33	Hydrothermal synthesis of SnO ₂ /SnS ₂ nanocomposite with high visible light-driven photocatalytic activity. <i>Materials Letters</i> , 2011 , 65, 2891-2894	3.3	41
32	Nanoflake-like SnS ₂ matrix for glucose biosensing based on direct electrochemistry of glucose oxidase. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 4337-41	11.8	77
31	Green hydrothermal synthesis and characterization of CdO ₂ nanoparticles. <i>Materials Letters</i> , 2010 , 64, 1779-1781	3.3	8
30	Novel synthesis and high visible light photocatalytic activity of SnS ₂ nanoflakes from SnCl ₂ ·2H ₂ O and S powders. <i>Applied Catalysis B: Environmental</i> , 2010 , 95, 153-159	21.8	178
29	Facile routes to In ₂ S ₃ and In ₂ O ₃ hierarchical nanostructures. <i>Materials Chemistry and Physics</i> , 2009 , 118, 223-228	4.4	15
28	Molten salt synthesis of SnS ₂ microplate particles. <i>Materials Letters</i> , 2009 , 63, 809-811	3.3	21
27	Simple synthesis of urchin-like In ₂ S ₃ and In ₂ O ₃ nanostructures. <i>Materials Letters</i> , 2009 , 63, 823-825	3.3	21
26	Low temperature synthesis of Fe ₃ O ₄ nanocrystals by hydrothermal decomposition of a metallorganic molecular precursor. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009 , 157, 81-86	3.1	29
25	Green hydrothermal synthesis and optical properties of cuprous bromide nanocrystals. <i>Materials Chemistry and Physics</i> , 2008 , 108, 4-7	4.4	7

24	In air liquid-solid phase synthesis of metal sulfide nanoparticles from metal acetates and thiourea. <i>Materials Chemistry and Physics</i> , 2008 , 112, 333-336	4.4	20
23	Solvothermal synthesis of CdO hollow nanostructures from CdO nanoparticles. <i>Materials Letters</i> , 2008 , 62, 673-675	3.3	47
22	Simple solid state synthesis of Ag ₂ S crystallites using a single-source molecular precursor. <i>Materials Letters</i> , 2008 , 62, 3736-3738	3.3	19
21	Controllable synthesis and magnetic properties of pure hematite and maghemite nanocrystals from a molecular precursor. <i>Journal of Alloys and Compounds</i> , 2008 , 462, 24-28	5.7	54
20	Hydrothermal Synthesis and Photocatalytic Properties of Pyrochlore La ₂ Sn ₂ O ₇ Nanocubes. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 11879-11887	3.8	175
19	A green hydrothermal route to nanocrystalline CuCl. <i>Materials Letters</i> , 2007 , 61, 3708-3710	3.3	20
18	In air synthesis of hexagonal Cd _{1-x} Zn _x S nanoparticles from single-source molecular precursors. <i>Materials Letters</i> , 2007 , 61, 4847-4850	3.3	15
17	Solvothermal synthesis of uniform hexagonal-phase ZnS nanorods using a single-source molecular precursor. <i>Materials Research Bulletin</i> , 2006 , 41, 1817-1824	5.1	18
16	Facile synthesis of submicron Cu ₂ O and CuO crystallites from a solid metallorganic molecular precursor. <i>Journal of Crystal Growth</i> , 2006 , 294, 278-282	1.6	157
15	Facile synthesis of submicron BaTiO ₃ crystallites by a liquid-solid reaction method. <i>Journal of Crystal Growth</i> , 2006 , 290, 513-517	1.6	14
14	Preparation of submicrometer-sized copper and silver crystallites by a facile solvothermal complexation-reduction route. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 1609-1613	3.3	17
13	Shape-controlled synthesis of PbS microcrystallites by mild solvothermal decomposition of a single-source molecular precursor. <i>Journal of Crystal Growth</i> , 2005 , 277, 518-523	1.6	31
12	A green hydrothermal route to copper nanocrystallites. <i>Journal of Crystal Growth</i> , 2004 , 273, 280-284	1.6	30
11	Preparation of Mn ₃ O ₄ nanocrystallites by low-temperature solvothermal treatment of MnOOH nanowires. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 4093-4097	3.3	98
10	Hydrothermal synthesis of zinc oxide powders with controllable morphology. <i>Ceramics International</i> , 2004 , 30, 93-97	5.1	151
9	Synthesis of cadmium titanate powders by a sol-gel-hydrothermal method. <i>Journal of Materials Science</i> , 2003 , 38, 2353-2356	4.3	22
8	Preparation of crystalline MnS thin films by chemical bath deposition. <i>Materials Chemistry and Physics</i> , 2003 , 80, 44-47	4.4	49
7	Asymmetric twinning crystals of Zinc oxide formed in a hydrothermal process. <i>Crystal Research and Technology</i> , 2003 , 38, 429-432	1.3	22

6	Low temperature preparation of nanocrystalline Mn ₂ O ₃ via ethanol-thermal reduction of MnO ₂ . <i>Journal of Crystal Growth</i> , 2003 , 252, 285-288	1.6	52
5	Photoluminescence of MnS thin film prepared by chemical bath deposition. <i>Physica B: Condensed Matter</i> , 2003 , 337, 165-169	2.8	40
4	Hydrothermal synthesis of metastable Γ -manganese sulfide crystallites. <i>Optical Materials</i> , 2003 , 23, 433-437	3.3	30
3	Chemical bath deposition of crystalline ZnS thin films. <i>Semiconductor Science and Technology</i> , 2003 , 18, 676-679	1.8	122
2	Low temperature synthesis of nanocrystalline Li ₄ Mn ₅ O ₁₂ by a hydrothermal method. <i>Materials Research Bulletin</i> , 2002 , 37, 1411-1417	5.1	39
1	Low-temperature hydrothermal synthesis of pure metastable Γ -manganese sulfide (MnS) crystallites. <i>Journal of Crystal Growth</i> , 2002 , 243, 214-217	1.6	44