Yongcai Zhang

List of Publications by Citations

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	Size-tunable hydrothermal synthesis of SnS2 nanocrystals with high performance in visible light-driven photocatalytic reduction of aqueous Cr(VI). *Environmental Science & Technology*, **2011**, 45, 9324-31	10.3	334
112	High-performance visible-light-driven SnS2/SnO2 nanocomposite photocatalyst prepared via in situ hydrothermal oxidation of SnS2 nanoparticles. *ACS Applied Materials & Interfaces*, **2011**, 3, 1528-37	9.5	275
111	One-step in situ solvothermal synthesis of SnS2/TiO2 nanocomposites with high performance in visible light-driven photocatalytic reduction of aqueous Cr(VI). *Applied Catalysis B: Environmental*, **2012**, 123-124, 18-26	21.8	215
110	Exceptional synergistic enhancement of the photocatalytic activity of SnS2 by coupling with polyaniline and N-doped reduced graphene oxide. *Applied Catalysis B: Environmental*, **2018**, 236, 53-63	21.8	205
109	Novel synthesis and high visible light photocatalytic activity of SnS2 nanoflakes from SnCl2·2H2O and S powders. *Applied Catalysis B: Environmental*, **2010**, 95, 153-159	21.8	178
108	Hydrothermal Synthesis and Photocatalytic Properties of Pyrochlore La2Sn2O7 Nanocubes. *Journal of Physical Chemistry C*, **2007**, 111, 11879-11887	3.8	175
107	HNO3-involved one-step low temperature solvothermal synthesis of N-doped TiO2 nanocrystals for efficient photocatalytic reduction of Cr(VI) in water. *Applied Catalysis B: Environmental*, **2013**, 142-143, 249-258	21.8	161
106	Facile synthesis of submicron Cu2O and CuO crystallites from a solid metallorganic molecular precursor. *Journal of Crystal Growth*, **2006**, 294, 278-282	1.6	157
105	Hydrothermal synthesis of zinc oxide powders with controllable morphology. *Ceramics International*, **2004**, 30, 93-97	5.1	151
104	Acid-treated g-C3N4 with improved photocatalytic performance in the reduction of aqueous Cr(VI) under visible-light. *Separation and Purification Technology*, **2015**, 142, 251-257	8.3	144
103	Chemical bath deposition of crystalline ZnS thin films. *Semiconductor Science and Technology*, **2003**, 18, 676-679	1.8	122
102	Development of a new efficient visible-light-driven photocatalyst from SnS2 and polyvinyl chloride. *Journal of Catalysis*, **2016**, 344, 692-700	7.3	117
101	Size-controlled hydrothermal synthesis of SnS2 nanoparticles with high performance in visible light-driven photocatalytic degradation of aqueous methyl orange. *Separation and Purification Technology*, **2011**, 81, 101-107	8.3	115
100	Preparation of Mn3O4 nanocrystallites by low-temperature solvothermal treatment of β-MnOOH nanowires. *Journal of Solid State Chemistry*, **2004**, 177, 4093-4097	3.3	98
99	Enhancement of the Cr(VI) adsorption and photocatalytic reduction activity of g-C3N4 by hydrothermal treatment in HNO3 aqueous solution. *Applied Catalysis A: General*, **2016**, 521, 9-18	5.1	95
98	A new high efficiency visible-light photocatalyst made of SnS 2 and conjugated derivative of polyvinyl alcohol and its application to Cr(VI) reduction. *Chemical Engineering Journal*, **2017**, 324, 140-153	14.7	82
97	Carbon nanotubes-nanoflake-like SnS2 nanocomposite for direct electrochemistry of glucose oxidase and glucose sensing. *Biosensors and Bioelectronics*, **2013**, 41, 698-703	11.8	82

96	Polyaniline modified SnO2 nanoparticles for efficient photocatalytic reduction of aqueous Cr(VI) under visible light. *Separation and Purification Technology*, **2018**, 201, 120-129	8.3	80
95	Nanoflake-like SnS□matrix for glucose biosensing based on direct electrochemistry of glucose oxidase. *Biosensors and Bioelectronics*, **2011**, 26, 4337-41	11.8	77
94	Facile synthesis of tetragonal columnar-shaped TiO2 nanorods for the construction of sensitive electrochemical glucose biosensor. *Biosensors and Bioelectronics*, **2014**, 54, 528-33	11.8	69
93	Magnetically recoverable MgFe2O4/conjugated polyvinyl chloride derivative nanocomposite with higher visible-light photocatalytic activity for treating Cr(VI)-polluted water. *Separation and Purification Technology*, **2020**, 236, 116272	8.3	59
92	Controllable synthesis and magnetic properties of pure hematite and maghemite nanocrystals from a molecular precursor. *Journal of Alloys and Compounds*, **2008**, 462, 24-28	5.7	54
91	Low temperature preparation of nanocrystalline Mn2O3 via ethanol-thermal reduction of MnO2. *Journal of Crystal Growth*, **2003**, 252, 285-288	1.6	52
90	Preparation of crystalline MnS thin films by chemical bath deposition. *Materials Chemistry and Physics*, **2003**, 80, 44-47	4.4	49
89	Solvothermal synthesis of CdO hollow nanostructures from CdO2nanoparticles. *Materials Letters*, **2008**, 62, 673-675	3.3	47
88	Scalable low temperature in air solid phase synthesis of porous flower-like hierarchical nanostructure SnS2 with superior performance in the adsorption and photocatalytic reduction of aqueous Cr(VI). *Separation and Purification Technology*, **2017**, 189, 153-161	8.3	46
87	Low-temperature hydrothermal synthesis of pure metastable □manganese sulfide (MnS) crystallites. *Journal of Crystal Growth*, **2002**, 243, 214-217	1.6	44
86	Platinum nanoparticles functionalized nitrogen doped graphene platform for sensitive electrochemical glucose biosensing. *Analytica Chimica Acta*, **2015**, 871, 35-42	6.6	41
85	Hydrothermal synthesis of SnO2/SnS2 nanocomposite with high visible light-driven photocatalytic activity. *Materials Letters*, **2011**, 65, 2891-2894	3.3	41
84	Synthesis and application of Fe3O4/FeWO4 composite as an efficient and magnetically recoverable visible light-driven photocatalyst for the reduction of Cr(VI). *Separation and Purification Technology*, **2021**, 263, 118401	8.3	41
83	Photoluminescence of MnS thin film prepared by chemical bath deposition. *Physica B: Condensed Matter*, **2003**, 337, 165-169	2.8	40
82	Low temperature synthesis of nanocrystalline Li4Mn5O12 by a hydrothermal method. *Materials Research Bulletin*, **2002**, 37, 1411-1417	5.1	39
81	One-pot facile synthesis of branched Ag-ZnO heterojunction nanostructure as highly efficient photocatalytic catalyst. *Applied Surface Science*, **2015**, 353, 949-957	6.7	36
80	Perovskite-type calcium titanate nanoparticles as novel matrix for designing sensitive electrochemical biosensing. *Biosensors and Bioelectronics*, **2017**, 96, 220-226	11.8	31
79	Polyaniline modified SnS2 as a novel efficient visible-light-driven photocatalyst. *Materials Letters*, **2017**, 192, 149-152	3.3	31

78	The application of transition metal cobaltites in electrochemistry. *Energy Storage Materials*, **2019**, 23, 439-465	19.4	31
77	Shape-controlled synthesis of PbS microcrystallites by mild solvothermal decomposition of a single-source molecular precursor. *Journal of Crystal Growth*, **2005**, 277, 518-523	1.6	31
76	SnO2/SnS2 nanocomposite anchored on nitrogen-doped RGO for improved photocatalytic reduction of aqueous Cr(VI). *Powder Technology*, **2020**, 363, 337-348	5.2	30
75	A green hydrothermal route to copper nanocrystallites. *Journal of Crystal Growth*, **2004**, 273, 280-284	1.6	30
74	Hydrothermal synthesis of metastable □manganese sulfide crystallites. *Optical Materials*, **2003**, 23, 433-437	3.3	30
73	Cage-like PbS nanostructure for the construction of novel glucose electrochemical biosensor. *Sensors and Actuators B: Chemical*, **2014**, 190, 549-554	8.5	29
72	Low temperature synthesis of Fe3O4 nanocrystals by hydrothermal decomposition of a metallorganic molecular precursor. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2009**, 157, 81-86	3.1	29
71	Fabrication of novel Z-scheme SrTiO3/MnFe2O4 system with double-response activity for simultaneous microwave-induced and photocatalytic degradation of tetracycline and mechanism insight. *Chemical Engineering Journal*, **2020**, 400, 125981	14.7	28
70	Carbon nanotubes-functionalized urchin-like In2S3 nanostructure for sensitive and selective electrochemical sensing of dopamine. *Mikrochimica Acta*, **2012**, 177, 381-387	5.8	28
69	Enhancement of the photocatalytic activity of g-C3N4 via treatment in dilute NaOH aqueous solution. *Materials Letters*, **2016**, 171, 79-82	3.3	27
68	Solvothermal synthesis of visible-light-active N-modified ZrO2 nanoparticles. *Materials Letters*, **2014**, 130, 139-142	3.3	24
67	SnSe Nanoparticles Chemically Embedded in a Carbon Shell for High-Rate Sodium-Ion Storage. *ACS Applied Materials & Interfaces*, **2020**, 12, 2346-2353	9.5	24
66	Green hydrothermal synthesis and optical absorption properties of ZnO2 nanocrystals and ZnO nanorods. *Materials Letters*, **2011**, 65, 639-641	3.3	23
65	Tin disulfide nanoflakes decorated with gold nanoparticles for direct electrochemistry of glucose oxidase and glucose biosensing. *Mikrochimica Acta*, **2012**, 179, 265-272	5.8	22
64	Synthesis of cadmium titanate powders by a sol-gel-hydrothermal method. *Journal of Materials Science*, **2003**, 38, 2353-2356	4.3	22
63	Asymmetric twinning crystals of Zinc oxide formed in a hydrothermal process. *Crystal Research and Technology*, **2003**, 38, 429-432	1.3	22
62	Low temperature preparation and optical properties of K2Ti6O13. *Materials Letters*, **2012**, 79, 136-138	3.3	21
61	Molten salt synthesis of SnS2 microplate particles. *Materials Letters*, **2009**, 63, 809-811	3.3	21

60	Simple synthesis of urchin-like In2S3 and In2O3 nanostructures. *Materials Letters*, **2009**, 63, 823-825	3.3	21
59	In air liquid□solid phase synthesis of metal sulfide nanoparticles from metal acetates and thiourea. *Materials Chemistry and Physics*, **2008**, 112, 333-336	4.4	20
58	A green hydrothermal route to nanocrystalline CuCl. *Materials Letters*, **2007**, 61, 3708-3710	3.3	20
57	Low temperature synthesis and optical properties of CaTiO3 nanoparticles from Ca(NO3)2□4H2O and TiO2 nanocrystals. *Materials Letters*, **2011**, 65, 1556-1558	3.3	19
56	Simple solid state synthesis of Ag2S crystallites using a single-source molecular precursor. *Materials Letters*, **2008**, 62, 3736-3738	3.3	19
55	Solvothermal synthesis of nonmetals-modified SnO2 nanoparticles with high visible-light-activated photocatalytic activity in the reduction of aqueous Cr(VI). *Separation and Purification Technology*, **2014**, 129, 90-95	8.3	18
54	Solvothermal synthesis of uniform hexagonal-phase ZnS nanorods using a single-source molecular precursor. *Materials Research Bulletin*, **2006**, 41, 1817-1824	5.1	18
53	Synthesis of perovskite-type SrTiO3 nanoparticles for sensitive electrochemical biosensing applications. *Journal of Electroanalytical Chemistry*, **2018**, 810, 95-99	4.1	17
52	A new efficient visible-light photocatalyst made of SnO2 and cyclized polyacrylonitrile. *Materials Research Bulletin*, **2018**, 97, 517-522	5.1	17
51	Synthesis of SnS2/WO3 nanocomposite with enhanced photocatalytic activity. *Materials Letters*, **2014**, 121, 44-46	3.3	17
50	Preparation of submicrometer-sized copper and silver crystallites by a facile solvothermal complexation□eduction route. *Journal of Solid State Chemistry*, **2005**, 178, 1609-1613	3.3	17
49	Efficient photocatalytic reduction of aqueous Cr (VI) by Zr4+ doped and polyaniline coupled SnS2 nanoflakes. *Separation and Purification Technology*, **2021**, 283, 120161	8.3	17
48	Green synthesis of hollow-nanostructured ZnO2 and ZnO. *Materials Letters*, **2012**, 71, 154-156	3.3	16
47	Synergistic effect of reduced graphene oxide and near-infrared light on MoS2-mediated electrocatalytic hydrogen evolution. *Chemical Engineering Journal*, **2021**, 418, 129343	14.7	16
46	Facile routes to In2S3 and In2O3 hierarchical nanostructures. *Materials Chemistry and Physics*, **2009**, 118, 223-228	4.4	15
45	In air synthesis of hexagonal Cd1 □kZnxS nanoparticles from single-source molecular precursors. *Materials Letters*, **2007**, 61, 4847-4850	3.3	15
44	Facile synthesis of submicron BaTiO3 crystallites by a liquid□solid reaction method. *Journal of Crystal Growth*, **2006**, 290, 513-517	1.6	14
43	Room temperature photocatalytic deposition of Au nanoparticles on SnS2 nanoplates for enhanced photocatalysis. *Powder Technology*, **2021**, 383, 371-380	5.2	14

42	Alternative synthesis of nitrogen and carbon co-doped TiO2 for removing fluoroquinolone antibiotics in water under visible light. *Catalysis Today*, **2021**, 361, 11-16	5.3	14
41	Low temperature gel-combustion synthesis of porous nanostructure LaFeO 3 with enhanced visible-light photocatalytic activity in reduction of Cr(VI). *Materials Letters*, **2017**, 197, 120-122	3.3	13
40	Design and preparation of SnO2/SnS2/conjugated polyvinyl chloride derivative ternary composite with enhanced visible-light photocatalytic activity. *Materials Research Bulletin*, **2019**, 118, 110524	5.1	13
39	In-situ hydrothermal synthesis of CeO2/SnS2 heterojunction for use as a new efficient visible-light-driven photocatalyst. *Materials Letters*, **2018**, 213, 154-157	3.3	13
38	One-step solvothermal preparation of silver-ZnO hybrid nanorods for use in enzymatic and direct electron-transfer based biosensing of glucose. *Mikrochimica Acta*, **2016**, 183, 1705-1712	5.8	13
37	Partially conjugated polyvinyl chloride-modified TiO 2 nanoparticles for efficient visible-light-driven photocatalytic reduction of aqueous Cr(VI). *Materials Letters*, **2016**, 163, 262-265	3.3	13
36	One-step solvothermal synthesis of SnIn4S8/TiO2 nanocomposite with enhanced visible-light-activated photocatalytic activity. *Materials Letters*, **2014**, 123, 153-155	3.3	13
35	A new efficient visible-light-driven composite photocatalyst comprising ZnFe2O4 nanoparticles and conjugated polymer from the dehydrochlorination of polyvinyl chloride. *Materials Letters*, **2017**, 187, 123-125	3.3	13
34	An enzymatic glucose biosensor based on a glassy carbon electrode modified with cylinder-shaped titanium dioxide nanorods. *Mikrochimica Acta*, **2015**, 182, 1841-1848	5.8	13
33	Facile microfluidic synthesis of copolymer hydrogel beads for the removal of heavy metal ions. *Journal of Materials Science*, **2016**, 51, 10375-10385	4.3	12
32	Platinum nanoparticle-assembled nanoflake-like tin disulfide for enzyme-based amperometric sensing of glucose. *Mikrochimica Acta*, **2017**, 184, 2357-2363	5.8	11
31	Novel synthesis and characterization of SnS2/SnO2 nanocomposite photocatalyst. *Materials Letters*, **2014**, 130, 104-106	3.3	11
30	Hollow BiVO4/Bi2S3 cruciate heterostructures with enhanced visible-light photoactivity. *Catalysis Science and Technology*, **2019**, 9, 182-187	5.5	10
29	A streptavidin-functionalized tin disulfide nanoflake-based ultrasensitive electrochemical immunosensor for the detection of tumor markers. *New Journal of Chemistry*, **2020**, 44, 6010-6014	3.6	10
28	Preparation of SnO2/conjugated polyvinyl alcohol derivative nanohybrid with good performance in visible light-induced photocatalytic reduction of Cr(VI). *Materials Science in Semiconductor Processing*, **2019**, 102, 104586	4.3	10
27	Synthesis of CPVC-modified SnS2/TiO2 composite with improved visible light-driven photocatalysis. *Materials Research Bulletin*, **2021**, 135, 111125	5.1	10
26	Green hydrothermal synthesis and characterization of CdO2 nanoparticles. *Materials Letters*, **2010**, 64, 1779-1781	3.3	8
25	Fast preparation of oxygen vacancy-rich 2D/2D bismuth oxyhalides-reduced graphene oxide composite with improved visible-light photocatalytic properties by solvent-free grinding. *Journal of Cleaner Production*, **2021**, 328, 129651	10.3	8

24	Green hydrothermal synthesis and optical properties of cuprous bromide nanocrystals. *Materials Chemistry and Physics*, **2008**, 108, 4-7	4.4	7
23	NH4Cl-assisted in air, low temperature synthesis of SnS2 nanoflakes with high visible-light-activated photocatalytic activity. *Materials Letters*, **2019**, 234, 361-363	3.3	7
22	Modification of ZnFe2O4 by conjugated polyvinyl chloride derivative for more efficient photocatalytic reduction of Cr(VI). *Journal of Molecular Structure*, **2021**, 1242, 130734	3.4	7
21	HNO3-involved one-step solvothermal preparation of nanocrystalline N-modified CeO2 with enhanced visible-light activity. *Materials Letters*, **2015**, 141, 298-301	3.3	6
20	The facile synthesis and enhanced photocatalytic properties of ZnO@ZnS modified with Ag0 via in-situ ion exchange. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2020**, 591, 124556	5.1	6
19	One-step solvothermal preparation of visible light-driven N-modified Nb 2 O 5 photocatalyst using nitric acid as the nitrogen source. *Materials Letters*, **2016**, 165, 156-159	3.3	6
18	Oxygen vacancies induced narrow band gap of BiOCl for efficient visible-light catalytic performance from double radicals. *Journal of Materials Science and Technology*, **2022**, 114, 240-248	9.1	6
17	Morphology-controlled hydrothermal synthesis and photocatalytic Cr(VI) reduction properties of □Fe2O3. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2022**, 635, 128069	5.1	6
16	In situ preparation of Bi2S3 nanoribbon-anchored BiVO4 nanoscroll heterostructures for the catalysis of Cr(VI) photoreduction. *Catalysis Science and Technology*, **2020**, 10, 3843-3847	5.5	6
15	Bird nest-like zinc oxide nanostructures for sensitive electrochemical glucose biosensor. *Chinese Chemical Letters*, **2021**,	8.1	5
14	Modification of SnO2 nanoparticles by conjugated derivative of polyvinyl chloride for efficient photocatalytic reduction of Cr(VI) under visible-light. *Materials Letters*, **2018**, 218, 173-176	3.3	4
13	Nitric acid-assisted one-step solvothermal synthesis of visible-light-active N-doped ThO2 for use as a potential photocatalyst in the reduction of Cr(VI). *Catalysis Communications*, **2017**, 99, 66-70	3.2	4
12	Snowflake-Like Cu2S/MoS2/Pt heterostructure with near infrared photothermal-enhanced electrocatalytic and photoelectrocatalytic hydrogen production. *Applied Catalysis B: Environmental*, **2022**, 315, 121540	21.8	4
11	NIR Photothermal-Enhanced Electrocatalytic and Photoelectrocatalytic Hydrogen Evolution by Polyaniline/SnS2 Nanocomposites. *ACS Applied Nano Materials*, **2022**, 5, 391-400	5.6	3
10	Simple fabrication of Z-scheme MgIn2S4/Bi2WO6 hierarchical heterostructures for enhancing photocatalytic reduction of Cr(VI). *Catalysis Science and Technology*, **2021**, 11, 6271-6280	5.5	3
9	A glassy carbon electrode modified with a platinum nanoparticle/cage-like PbS nanostructure for direct electron transfer to enzymes and for use in biosensing. *Mikrochimica Acta*, **2017**, 184, 4845-4852	5.8	2
8	Design and synthesis of a new high-efficiency CeO2/SnS2/polyaniline ternary composite visible-light photocatalyst. *Colloids and Interface Science Communications*, **2021**, 45, 100550	5.4	2
7	Insight into the growth mechanism of AgIn5S8 nanoparticles in a low temperature co-precipitation process and their visible-light-driven photocatalytic activities. *Materials Chemistry and Physics*, **2022**, 276, 125333	4.4	2

6	Tuned structures and enhanced photoluminescence of WO3- nanomaterials by TiO2. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2022**, 275, 115516	3.1	2
5	Facile pH-controlled synthesis of MnWO4 nanoparticles and nanorods and their heterogeneous Fenton-like catalytic activity. *Materials Letters*, **2021**, 293, 129662	3.3	1
4	Effects of precursors on the phase, magnetic and photocatalytic properties of nano Fe2O3 synthesized by low temperature calcination. *Colloids and Interface Science Communications*, **2021**, 44, 100504	5.4	1
3	Visible light photocatalytic reduction of Cr(VI) over polyimide in the presence of small molecule carboxylic acids. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2022**, 642, 128657	5.1	1
2	Single-step synthesis of TiO2/WO3 hybrid nanomaterials in ethanoic acid: Structure and photoluminescence properties. *Applied Surface Science*, **2021**, 562, 150180	6.7	0
1	Ultrasonic-Assisted Synthesis of CdS/Microcrystalline Cellulose Nanocomposites With Enhanced Visible-Light-Driven Photocatalytic Degradation of MB and the Corresponding Mechanism Study.. *Frontiers in Chemistry*, **2022**, 10, 892680	5	0