

Yingguang Zhang

List of Publications by Year in descending order

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71
papers

4,966
citations

100601

38
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104191

69
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72
all docs

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docs citations

72
times ranked

6640
citing authors

#	ARTICLE	IF	CITATIONS
1	Photochemistry of Nitrate Ion: Reduction by Formic Acid under UV Irradiation. <i>Photochemistry and Photobiology</i> , 2022, 98, 404-411.	1.3	2
2	Multimetal tantalate CsBi ₂ Ta ₅ O ₁₆ for photocatalytic conversion of CO ₂ with H ₂ O into CH ₄ and O ₂ . <i>Applied Surface Science</i> , 2022, 588, 152933.	3.1	8
3	AuPd nanoparticle-decorated ultrathin Bi ₂ TiO ₄ F ₂ sheets for photocatalytic methane oxidation. <i>New Journal of Chemistry</i> , 2022, 46, 10545-10549.	1.4	1
4	Fabrication of 2H/3C-SiC heterophase junction nanocages for enhancing photocatalytic CO ₂ reduction. <i>Journal of Colloid and Interface Science</i> , 2022, 622, 31-39.	5.0	14
5	Photocatalytic Chlorination of Methane Using Alkali Chloride Solution. <i>ACS Catalysis</i> , 2022, 12, 7004-7013.	5.5	9
6	Sn ²⁺ and Cu ²⁺ Self-Codoped Cu ₂ ZnSn ₄ Nanosheets Switching from p-Type to n-Type Semiconductors for Visible-Light-Driven CO ₂ Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 8825-8834.	3.2	9
7	Intimately Contacted Ni ₂ P on CdS Nanorods for Highly Efficient Photocatalytic H ₂ Evolution: New Phosphidation Route and the Interfacial Separation Mechanism of Charge Carriers. <i>Applied Catalysis B: Environmental</i> , 2021, 281, 119443.	10.8	90
8	Enhanced bacterial disinfection by Cu ²⁺ /BiOI/rGO hydrogel under visible light irradiation. <i>RSC Advances</i> , 2021, 11, 20446-20456.	1.7	11
9	Monolayer Bi ₂ W _{1-x} Mo _x O ₆ Solid Solutions for Structural Polarity to Boost Photocatalytic Reduction of Nitrobenzene under Visible Light. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 2465-2474.	3.2	32
10	Metallic Pt and PtO ₂ Dual-Cocatalyst-Loaded Binary Composite RGO-CN _x for the Photocatalytic Production of Hydrogen and Hydrogen Peroxide. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 6380-6389.	3.2	29
11	Distortion of the Coordination Structure and High Symmetry of the Crystal Structure in In ₄ Sn ₈ Microflowers for Enhancing Visible-Light Photocatalytic CO ₂ Reduction. <i>ACS Catalysis</i> , 2021, 11, 11029-11039.	5.5	37
12	Construction of the Rutile/Anatase Micro-Heterophase Junction Photocatalyst from Anatase by Liquid Nitrogen Quenching Method. <i>ACS Applied Energy Materials</i> , 2021, 4, 10172-10186.	2.5	9
13	Controlling 1T/2H heterophase junctions in the MoS ₂ microsphere for the highly efficient photocatalytic hydrogen evolution. <i>Catalysis Science and Technology</i> , 2021, 11, 7914-7921.	2.1	4
14	Photocatalytic reduction of CO ₂ on BiOX _{1/4} : Effect of halogen element type and surface oxygen vacancy mediated mechanism. <i>Applied Catalysis B: Environmental</i> , 2020, 274, 119063.	10.8	243
15	Direct and indirect Z-scheme heterostructure-coupled photosystem enabling cooperation of CO ₂ reduction and H ₂ O oxidation. <i>Nature Communications</i> , 2020, 11, 3043.	5.8	200
16	Mechanistic insights into toluene degradation under VUV irradiation coupled with photocatalytic oxidation. <i>Journal of Hazardous Materials</i> , 2020, 399, 122967.	6.5	48
17	Integrating single Ni sites into biomimetic networks of covalent organic frameworks for selective photoreduction of CO ₂ . <i>Chemical Science</i> , 2020, 11, 6915-6922.	3.7	78
18	BiVO ₄ /Bi ₄ Ti ₃ O ₁₂ heterojunction enabling efficient photocatalytic reduction of CO ₂ with H ₂ O to CH ₃ OH and CO. <i>Applied Catalysis B: Environmental</i> , 2020, 270, 118876.	10.8	179

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19	Regulation of the rutile/anatase TiO ₂ heterophase interface by Ni ₁₂ P ₅ to improve photocatalytic hydrogen evolution. <i>Catalysis Science and Technology</i> , 2020, 10, 3709-3719.	2.1	18
20	Understanding structure-function relationships in HZSM-5 zeolite catalysts for photocatalytic oxidation of isopropyl alcohol. <i>Journal of Catalysis</i> , 2019, 377, 322-331.	3.1	21
21	Ranking the relative CO ₂ electrochemical reduction activity in carbon materials. <i>Carbon</i> , 2019, 154, 108-114.	5.4	14
22	A low-cost and dendrite-free rechargeable aluminium-ion battery with superior performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17420-17425.	5.2	111
23	Non-noble metal thickness-tunable Bi ₂ MoO ₆ nanosheets for highly efficient visible-light-driven nitrobenzene reduction into aniline. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118087.	10.8	80
24	<i>In situ</i> hydrothermal etching fabrication of CaTiO ₃ on TiO ₂ nanosheets with heterojunction effects to enhance CO ₂ adsorption and photocatalytic reduction. <i>Catalysis Science and Technology</i> , 2019, 9, 336-346.	2.1	56
25	One-step green conversion of benzyl bromide to aldehydes on NaOH-modified g-C ₃ N ₄ with dioxygen under LED visible light. <i>Catalysis Science and Technology</i> , 2019, 9, 3270-3278.	2.1	15
26	Synthesis of caged iodine-modified ZnO nanomaterials and study on their visible light photocatalytic antibacterial properties. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117873.	10.8	79
27	Plasmonic control of solar-driven CO ₂ conversion at the metal/ZnO interfaces. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117823.	10.8	95
28	Defect engineering of metal-oxide interface for proximity of photooxidation and photoreduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10232-10237.	3.3	63
29	Room-temperature Activation of H ₂ by a Surface Frustrated Lewis Pair. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9501-9505.	7.2	72
30	The effect of excitation wavelength on the photodeposition of Pt on polyhedron BiVO ₄ with exposing {010} and {110} facets for photocatalytic performance. <i>Catalysis Communications</i> , 2019, 123, 100-104.	1.6	10
31	High-Rate, Tunable Syngas Production with Artificial Photosynthetic Cells. <i>Angewandte Chemie</i> , 2019, 131, 7800-7804.	1.6	12
32	High-Rate, Tunable Syngas Production with Artificial Photosynthetic Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7718-7722.	7.2	75
33	Reconstructing Dual-Induced {001} Facets Bismuth Oxychloride Nanosheets Heterostructures: An Effective Strategy to Promote Photocatalytic Oxygen Evolution. <i>Solar Rrl</i> , 2019, 3, 1900059.	3.1	44
34	More efficiently enhancing photocatalytic activity by embedding Pt within anatase-rutile TiO ₂ heterophase junction than exposing Pt on the outside surface. <i>Journal of Catalysis</i> , 2019, 372, 8-18.	3.1	37
35	Room-temperature Activation of H ₂ by a Surface Frustrated Lewis Pair. <i>Angewandte Chemie</i> , 2019, 131, 9601-9605.	1.6	18
36	Persian buttercup-like BiOBr _x Cl _{1-x} solid solution for photocatalytic overall CO ₂ reduction to CO and O ₂ . <i>Applied Catalysis B: Environmental</i> , 2019, 243, 734-740.	10.8	159

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37	Amorphous Ta ₂ O _x Ny-enwrapped TiO ₂ rutile nanorods for enhanced solar photoelectrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 481-489.	10.8	86
38	In situ constructing interfacial contact MoS ₂ /ZnIn ₂ S ₄ heterostructure for enhancing solar photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018, 233, 112-119.	10.8	181
39	MnSb ₂ S ₄ Monolayer as an Anode Material for Metal-Ion Batteries. <i>Chemistry of Materials</i> , 2018, 30, 3208-3214.	3.2	74
40	Rapid water disinfection over a Ag/AgBr/covalent triazine-based framework composite under visible light. <i>Dalton Transactions</i> , 2018, 47, 7077-7082.	1.6	24
41	PdSn/NiO/NaTaO ₃ :La for photocatalytic ammonia synthesis by reduction of NO ₃ ⁻ with formic acid in aqueous solution. <i>Journal of Catalysis</i> , 2018, 361, 303-312.	3.1	45
42	Oxygen vacancy modulation of two-dimensional $\hat{\Gamma}^3$ -Ga ₂ O ₃ nanosheets as efficient catalysts for photocatalytic hydrogen evolution. <i>Nanoscale</i> , 2018, 10, 21509-21517.	2.8	31
43	Phase Transition of Two-Dimensional $\hat{\Gamma}^2$ -Ga ₂ O ₃ Nanosheets from Ultrathin $\hat{\Gamma}^3$ -Ga ₂ O ₃ Nanosheets and Their Photocatalytic Hydrogen Evolution Activities. <i>ACS Omega</i> , 2018, 3, 14469-14476.	1.6	40
44	Visible-Light Driven Overall Conversion of CO ₂ and H ₂ O to CH ₄ and O ₂ on 3D-SiC@2D-MoS ₂ Heterostructure. <i>Journal of the American Chemical Society</i> , 2018, 140, 14595-14598.	6.6	361
45	The effect of halogen on BiOX (X=Cl, Br, I)/Bi ₂ WO ₆ heterojunction for visible-light-driven photocatalytic benzyl alcohol selective oxidation. <i>Applied Catalysis A: General</i> , 2018, 567, 65-72.	2.2	75
46	Surface oxygen vacancy and defect engineering of WO ₃ for improved visible light photocatalytic performance. <i>Catalysis Science and Technology</i> , 2018, 8, 4399-4406.	2.1	158
47	CuI-BiOI/Cu film for enhanced photo-induced charge separation and visible-light antibacterial activity. <i>Applied Catalysis B: Environmental</i> , 2018, 235, 238-245.	10.8	85
48	Simple Fabrication of SnO ₂ Quantum-Dot-Modified TiO ₂ Nanorod Arrays with High Photoelectrocatalytic Activity for Overall Water Splitting. <i>ChemPhysChem</i> , 2018, 19, 2717-2723.	1.0	16
49	Openmouthed $\hat{\Gamma}^2$ -SiC hollow-sphere with highly photocatalytic activity for reduction of CO ₂ with H ₂ O. <i>Applied Catalysis B: Environmental</i> , 2017, 206, 158-167.	10.8	79
50	Controllable synthesis of Bi ₂ WO ₆ nanoplate self-assembled hierarchical erythrocyte microspheres via a one-pot hydrothermal reaction with enhanced visible light photocatalytic activity. <i>Applied Surface Science</i> , 2017, 403, 326-334.	3.1	46
51	Freestanding single layers of non-layered material $\hat{\Gamma}^3$ -Ga ₂ O ₃ as an efficient photocatalyst for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9702-9708.	5.2	46
52	Heterojunction: important strategy for constructing composite photocatalysts. <i>Science Bulletin</i> , 2017, 62, 599-601.	4.3	57
53	In situ construction of a heterojunction over the surface of a sandwich structure semiconductor for highly efficient photocatalytic H ₂ evolution under visible light irradiation. <i>Nanoscale</i> , 2017, 9, 14423-14430.	2.8	15
54	Photocatalytic reduction of CO ₂ to CO over the TiO ₂ /Highly dispersed HZSM-5 zeolite containing Fe. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 725-730.	10.8	44

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55	Post-synthetic regulation of the structure, morphology and photoactivity of graphitic carbon nitride by heat-vacuum treatment. <i>Materials and Design</i> , 2017, 114, 208-213.	3.3	7
56	Synergy of metal and nonmetal dopants for visible-light photocatalysis: a case-study of Sn and N co-doped TiO ₂ . <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 9636-9644.	1.3	68
57	HZSM-5 zeolites containing impurity iron species for the photocatalytic reduction of CO ₂ with H ₂ O. <i>Catalysis Science and Technology</i> , 2016, 6, 7579-7585.	2.1	33
58	One-step synthesis of mesoporous Pt@Nb ₂ O ₅ nanocomposites with enhanced photocatalytic hydrogen production activity. <i>RSC Advances</i> , 2016, 6, 96809-96815.	1.7	20
59	Large-scale preparation of heterometallic chalcogenide MnSb ₂ S ₄ monolayer nanosheets with a high visible-light photocatalytic activity for H ₂ evolution. <i>Chemical Communications</i> , 2016, 52, 13381-13384.	2.2	18
60	Simultaneous excitation of PdCl ₂ hybrid mesoporous g-C ₃ N ₄ molecular/solid-state photocatalysts for enhancing the visible-light-induced oxidative removal of nitrogen oxides. <i>Applied Catalysis B: Environmental</i> , 2016, 184, 174-181.	10.8	39
61	Trace Amount of SnO ₂ -Decorated ZnSn(OH) ₆ as Highly Efficient Photocatalyst for Decomposition of Gaseous Benzene: Synthesis, Photocatalytic Activity, and the Unrevealed Synergistic Effect between ZnSn(OH) ₆ and SnO ₂ . <i>ACS Catalysis</i> , 2016, 6, 957-968.	5.5	74
62	Ultrathin nanosheets of molecular sieve SAPO-5: A new photocatalyst for efficient photocatalytic reduction of CO ₂ with H ₂ O to methane. <i>Applied Catalysis B: Environmental</i> , 2016, 187, 11-18.	10.8	62
63	Robust Photocatalytic H ₂ O ₂ Production by Octahedral Cd ₃ (C ₃ N ₃ S ₃) ₂ Coordination Polymer under Visible Light. <i>Scientific Reports</i> , 2015, 5, 16947.	1.6	71
64	Interim Anatase Coating Layer Stabilizes Rutile@Cr _x O _y Photoanode for Visible-Light-Driven Water Oxidation. <i>ChemPhysChem</i> , 2015, 16, 1352-1355.	1.0	8
65	Towards a comprehensive insight into efficient hydrogen production by self-assembled Ru(bpy) ₃ ²⁺ polymer-Pt artificial photosystems. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 10726-10736.	1.3	15
66	Enhanced visible-light-driven photocatalytic removal of NO: Effect on layer distortion on g-C ₃ N ₄ by H ₂ heating. <i>Applied Catalysis B: Environmental</i> , 2015, 179, 106-112.	10.8	131
67	Monolayered Bi ₂ WO ₆ nanosheets mimicking heterojunction interface with open surfaces for photocatalysis. <i>Nature Communications</i> , 2015, 6, 8340.	5.8	578
68	Vacuum heat-treatment of carbon nitride for enhancing photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17797-17807.	5.2	94
69	Layered C ₃ N ₃ S ₃ Polymer/Graphene Hybrids as Metal-Free Catalysts for Selective Photocatalytic Oxidation of Benzylic Alcohols under Visible Light. <i>ACS Catalysis</i> , 2014, 4, 3302-3306.	5.5	89
70	Probing the Electronic Structure and Photoactivation Process of Nitrogen-Doped TiO ₂ Using DRS, PL, and EPR. <i>ChemPhysChem</i> , 2012, 13, 1542-1550.	1.0	29
71	Nitrogen-doped titanium dioxide visible light photocatalyst: Spectroscopic identification of photoactive centers. <i>Journal of Catalysis</i> , 2010, 276, 201-214.	3.1	185