Zhengyuan Jin

List of Publications by Year
in descending order

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78	7,023	76326	64796
papers	citations	40	79
		h-index	g-index

79	79	79	7775
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Preparation of S-doped TiO2 photocatalysts and their photocatalytic activities under visible light. Applied Catalysis A: General, 2004, 265, 115-121.	4.3	1,177
2	Crystal faces of rutile and anatase TiO2 particles and their roles in photocatalytic reactions. New Journal of Chemistry, 2002, 26, 1167-1170.	2.8	724
3	Synergism between rutile and anatase TiO2 particles in photocatalytic oxidation of naphthalene. Applied Catalysis A: General, 2003, 244, 383-391.	4.3	544
4	Atomically dispersed antimony on carbon nitride for the artificial photosynthesis of hydrogen peroxide. Nature Catalysis, 2021, 4, 374-384.	34.4	474
5	Photoelectrochemical CO2 reduction by a p-type boron-doped g-C3N4 electrode under visible light. Applied Catalysis B: Environmental, 2016, 192, 193-198.	20.2	292
6	Shape-Controlled Anatase Titanium(IV) Oxide Particles Prepared by Hydrothermal Treatment of Peroxo Titanic Acid in the Presence of Polyvinyl Alcohol. Journal of Physical Chemistry C, 2009, 113, 3062-3069.	3.1	280
7	Unique Effects of Iron(III) Ions on Photocatalytic and Photoelectrochemical Properties of Titanium Dioxide. Journal of Physical Chemistry B, 1997, 101, 6415-6419.	2.6	193
8	Trapping-Induced Enhancement of Photocatalytic Activity on Brookite TiO₂ Powders: Comparison with Anatase and Rutile TiO₂ Powders. ACS Catalysis, 2017, 7, 2644-2651.	11.2	191
9	Photocatalytic reduction of CO2 over a hybrid photocatalyst composed of WO3 and graphitic carbon nitride (g-C3N4) under visible light. Journal of CO2 Utilization, 2014, 6, 17-25.	6.8	189
10	Switching redox site of photocatalytic reaction on titanium(IV) oxide particles modified with transition-metal ion controlled by irradiation wavelength. Applied Catalysis A: General, 2008, 348, 148-152.	4.3	159
11	Degradation of Methylene Blue on Carbonate Species-doped TiO2Photocatalysts under Visible Light. Chemistry Letters, 2004, 33, 750-751.	1.3	150
12	Complete oxidation of acetaldehyde over a composite photocatalyst of graphitic carbon nitride and tungsten(VI) oxide under visible-light irradiation. Applied Catalysis B: Environmental, 2014, 150-151, 479-485.	20.2	106
13	Development of highly efficient sulfur-doped TiO2 photocatalysts hybridized with graphitic carbon nitride. Applied Catalysis B: Environmental, 2013, 142-143, 362-367.	20.2	101
14	Exposed crystal surface-controlled TiO2 nanorods having rutile phase from TiCl3 under hydrothermal conditions. Journal of Molecular Catalysis A, 2009, 300, 72-79.	4.8	92
15	Morphology control and characterization of broom-like porous CeO2. Chemical Engineering Journal, 2015, 260, 126-132.	12.7	91
16	Synthesis of Y-doped CeO2/PCN nanocomposited photocatalyst with promoted photoredox performance. Applied Catalysis B: Environmental, 2019, 243, 513-521.	20.2	88
17	Photocatalytic reduction of CO2 over exposed-crystal-face-controlled TiO2 nanorod having a brookite phase with co-catalyst loading. Applied Catalysis B: Environmental, 2014, 152-153, 309-316.	20.2	83
18	Bio-inspired carbon doped graphitic carbon nitride with booming photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2019, 246, 61-71.	20.2	79

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19	Exposed crystal surface-controlled rutile TiO2 nanorods prepared by hydrothermal treatment in the presence of poly(vinyl pyrrolidone). Applied Catalysis B: Environmental, 2009, 91, 634-639.	20.2	75
20	Synthesis high specific surface area nanotube g-C₃N₄ with two-step condensation treatment of melamine to enhance photocatalysis properties. RSC Advances, 2015, 5, 4026-4029.	3.6	75
21	Photoexcited single metal atom catalysts for heterogeneous photocatalytic H2O2 production: Pragmatic guidelines for predicting charge separation. Applied Catalysis B: Environmental, 2021, 282, 119589.	20.2	74
22	Bandgap engineering of polymetric carbon nitride copolymerized by 2,5,8-triamino-tri-s-triazine (melem) and barbituric acid for efficient nonsacrificial photocatalytic H2O2 production. Applied Catalysis B: Environmental, 2020, 271, 118917.	20.2	72
23	Bifunctionality of Rh³⁺ Modifier on TiO₂ and Working Mechanism of Rh³⁺/TiO₂ Photocatalyst under Irradiation of Visible Light. Journal of Physical Chemistry C, 2013, 117, 11008-11016.	3.1	67
24	Co3O4/Ni-based MOFs on carbon cloth for flexible alkaline battery-supercapacitor hybrid devices and near-infrared photocatalytic hydrogen evolution. Electrochimica Acta, 2018, 281, 189-197.	5.2	66
25	Defect as the essential factor in engineering carbon-nitride-based visible-light-driven Z-scheme photocatalyst. Applied Catalysis B: Environmental, 2020, 260, 118145.	20.2	62
26	Development of a visible-light-responsive rutile rod by site-selective modification of iron(III) ion on {1 1 1} exposed crystal faces. Applied Catalysis B: Environmental, 2010, 97, 115-119.	20.2	61
27	Dependence of Photocatalytic Activity on Aspect Ratio of Shape-Controlled Rutile Titanium(IV) Oxide Nanorods. Journal of Physical Chemistry C, 2011, 115, 419-424.	3.1	59
28	Dependence of Activity of Rutile Titanium(IV) Oxide Powder for Photocatalytic Overall Water Splitting on Structural Properties. Journal of Physical Chemistry C, 2014, 118, 9093-9100.	3.1	59
29	Synthesis and photocatalytic performance of yttrium-doped CeO2 with a porous broom-like hierarchical structure. Applied Catalysis B: Environmental, 2016, 183, 361-370.	20.2	57
30	Improving g-C 3 N 4 photocatalytic performance by hybridizing with Bi 2 O 2 CO 3 nanosheets. Catalysis Today, 2017, 284, 27-36.	4.4	54
31	Synthesis and photocatalytic performance of yttrium-doped CeO2 with a hollow sphere structure. Catalysis Today, 2017, 281, 135-143.	4.4	52
32	Design and Synthesis of Sm, Y, La and Ndâ€doped CeO₂ with a broomâ€like hierarchical structure: a photocatalyst with enhanced oxidation performance. ChemCatChem, 2020, 12, 2638-2646.	3.7	51
33	Boosting visible-light-driven photocatalytic performance of waxberry-like CeO2 by samarium doping and silver QDs anchoring. Applied Catalysis B: Environmental, 2021, 286, 119845.	20.2	51
34	Fabrication and characterization of a p-type Cu3Nb2O8 photocathode toward photoelectrochemical reduction of carbon dioxide. Applied Catalysis B: Environmental, 2015, 174-175, 471-476.	20.2	46
35	Improving the Visible-Light Photocatalytic Activity of Graphitic Carbon Nitride by Carbon Black Doping. ACS Omega, 2018, 3, 15009-15017.	3.5	46
36	Constructing hydrogen bond based melam/WO3 heterojunction with enhanced visible-light photocatalytic activity. Applied Catalysis B: Environmental, 2017, 205, 569-575.	20.2	45

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37	Effect of core@shell (Au@Ag) nanostructure on surface plasmon-induced photocatalytic activity under visible light irradiation. Applied Catalysis B: Environmental, 2017, 211, 11-17.	20.2	45
38	Novel hydrothermal preparation of pure brookite-type titanium(IV) oxide nanocrystal under strong acidic conditions. Catalysis Communications, 2009, 10, 963-966.	3.3	43
39	Hydrogen bonds in heterojunction photocatalysts for efficient charge transfer. Applied Catalysis B: Environmental, 2018, 234, 198-205.	20.2	43
40	Black phosphorus: an efficient co-catalyst for charge separation and enhanced photocatalytic hydrogen evolution. Journal of Materials Science, 2018, 53, 16557-16566.	3.7	43
41	Porous cerium dioxide hollow spheres and their photocatalytic performance. RSC Advances, 2014, 4, 62255-62261.	3.6	39
42	Morphology control and photocatalytic characterization of yttrium-doped hedgehog-like CeO2. Applied Catalysis B: Environmental, 2015, 164, 120-127.	20.2	39
43	Non-precious molybdenum nanospheres as a novel cocatalyst for full-spectrum-driven photocatalytic CO2 reforming to CH4. Journal of Hazardous Materials, 2020, 393, 122324.	12.4	39
44	Multifunctional molybdenum oxide for solar-driven water evaporation and charged dyes adsorption. Applied Surface Science, 2019, 491, 328-334.	6.1	38
45	Development of the Visibleâ€Light Response of CeO_{2â^'x} with a high Ce³⁺ Content and Its Photocatalytic Properties. ChemCatChem, 2018, 10, 1267-1271.	3.7	37
46	A new precursor to synthesize g-C₃N₄ with superior visible light absorption for photocatalytic application. Catalysis Science and Technology, 2017, 7, 1826-1830.	4.1	35
47	Charge Transfer Doping Modulated Raman Scattering and Enhanced Stability of Black Phosphorus Quantum Dots on a ZnO Nanorod. Advanced Optical Materials, 2018, 6, 1800440.	7.3	34
48	Effect of chemical etching by sulfuric acid or H2O2â€“NH3 mixed solution on the photocatalytic activity of rutile TiO2 nanorods. Applied Catalysis A: General, 2010, 380, 48-54.	4.3	32
49	A facile approach to build Bi2O2CO3/PCN nanohybrid photocatalysts for gaseous acetaldehyde efficient removal. Catalysis Today, 2018, 315, 184-193.	4.4	32
50	Dependence of photocatalytic activity on aspect ratio of a brookite TiO2 nanorod and drastic improvement in visible light responsibility of a brookite TiO2 nanorod by site-selective modification of Fe3+ on exposed faces. Journal of Molecular Catalysis A, 2015, 396, 261-267.	4.8	31
51	High visible-light active Ir-doped-TiO2 brookite photocatalyst synthesized by hydrothermal microwave-assisted process. Catalysis Today, 2014, 230, 214-220.	4.4	29
52	Oxygen induced enhancement of NIR emission in brookite TiO₂powders: comparison with rutile and anatase TiO₂powders. Physical Chemistry Chemical Physics, 2018, 20, 3241-3248.	2.8	28
53	Novel cerium-based MOFs photocatalyst for photocarrier collaborative performance under visible light. Journal of Catalysis, 2022, 405, 74-83.	6.2	27
54	Improvement of visible light photocatalytic acetaldehyde decomposition of bismuth vanadate/silica nanocomposites by cocatalyst loading. Journal of Hazardous Materials, 2012, 211-212, 83-87.	12.4	26

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55	Visible light-driven H2O2 synthesis by a Cu3BiS3 photocathode via a photoelectrochemical indirect two-electron oxygen reduction reaction. Applied Catalysis B: Environmental, 2022, 307, 121152.	20.2	25
56	A facile approach to fabricating carbonaceous material/g-C3N4 composites with superior photocatalytic activity. Catalysis Today, 2018, 315, 149-154.	4.4	24
57	Development of visible-light-responsive morphology-controlled brookite TiO2 nanorods by site-selective loading of AuAg bimetallic nanoparticles. Applied Catalysis B: Environmental, 2019, 245, 681-690.	20.2	24
58	Infrared response in photocatalytic polymeric carbon nitride for water splitting via an upconversion mechanism. Communications Materials, 2020, 1, .	6.9	23
59	Ce-Doped Graphitic Carbon Nitride Derived from Metal Organic Frameworks as a Visible Light-Responsive Photocatalyst for H2 Production. Nanomaterials, 2019, 9, 1539.	4.1	20
60	Solarâ€Driven Hydrogen Generation Catalyzed by gâ€C₃N₄ with Poly(platinaynes) as Efficient Electron Donor at Low Platinum Content. Advanced Science, 2021, 8, 2002465.	11.2	20
61	Solar-driven H2 evolution over CuNb2O6: Effect of two polymorphs (monoclinic and orthorhombic) on optical property and photocatalytic activity. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 356, 263-271.	3.9	19
62	Multifunctional Znâ€“Al layered double hydroxides for surface-enhanced Raman scattering and surface-enhanced infrared absorption. Dalton Transactions, 2019, 48, 426-434.	3.3	17
63	A Fluorescence Probe for Metal Ions Based on Black Phosphorus Quantum Dots. Advanced Materials Interfaces, 2020, 7, 1902075.	3.7	17
64	Development of Plasmonic Photocatalyst by Siteâ€selective Loading of Bimetallic Nanoparticles of Au and Ag on Titanium(IV) Oxide. ChemCatChem, 2020, 12, 3783-3792.	3.7	16
65	Controlled structure of anatase TiO2 nanoparticles by using organic additives in a microwave process. Applied Catalysis A: General, 2011, 406, 119-123.	4.3	11
66	Fabrication of morphology-controlled TiO2 photocatalyst nanoparticles and improvement of photocatalytic activities by modification of Fe compounds. Rare Metals, 2015, 34, 291-300.	7.1	11
67	Photoinduced electron transfer in semiconductorâ€“clay binary nanosheet colloids controlled by clay particles as a turnout switch. Applied Catalysis B: Environmental, 2019, 241, 499-505.	20.2	10
68	Direct Imaging of Atomic-Scale Surface Structures of Brookite TiO₂ Nanoparticles by Frequency Modulation Atomic Force Microscopy in Liquid. Journal of Physical Chemistry C, 2018, 122, 24085-24093.	3.1	9
69	Effects of the Atmosphere in a Hydrothermal Process on the Morphology and Photocatalytic Activity of Cerium Oxide. ChemCatChem, 2018, 10, 4269-4273.	3.7	9
70	Stannous oxide promoted charge separation in rationally designed heterojunction photocatalysts with a controllable mechanism. Dalton Transactions, 2018, 47, 12734-12741.	3.3	9
71	Nitrogen and sulfur co-doped CeO₂ nanorods for efficient photocatalytic VOCs degradation. Catalysis Science and Technology, 2022, 12, 5203-5209.	4.1	9
72	Carbon Nitride Functionalized with Sb Resulting in High Photocatalytic Activity. ACS Applied Energy Materials, 2021, 4, 5677-5686.	5.1	8

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73	Fe(III)-Pt(II) oxide-co-sensitized brookite TiO2 nanorods for photocatalytic degradation of acetaldehyde under visible light. Applied Catalysis A: General, 2022, 634, 118539.	4.3	5
74	Fabrication and characterization of sesame ball-like CeO2:Y3+/P(Stâ€“AA) composite microspheres based on electrostatic interaction. Materials Letters, 2014, 121, 109-112.	2.6	3
75	Low-temperature preparation of a molybdenum oxide hole collection layer by using a peroxo precursor for polymer solar cells. Solar Energy Materials and Solar Cells, 2015, 143, 522-528.	6.2	2
76	Effective Photocatalytic Hydrogen Evolution Using Covalent Triazine Framework-Derived Carbon Nitride Nanofiber Containing Carbon Vacancies for Visible-Light-Driven. Applied Sciences (Switzerland), 2021, 11, 7222.	2.5	2
77	Functionalized Graphitic Carbon Nitrides for Photocatalytic H₂O₂ Production: Desired Properties Leading to Rational Catalyst Design. KONA Powder and Particle Journal, 2023, 40, 124-148.	1.7	2
78	Development of Visible Light Responsive Morphology Controlled TiO2 Photocatalyst. Nanostructure Science and Technology, 2016, , 79-98.	0.1	1