Zhengyuan Jin

List of Publications by Citations

76 papers	5,472 citations	33 h-index	73 g-index
79 ext. papers	6,241 ext. citations	10.4 avg, IF	5.83 L-index

#	Paper	IF	Citations
76	Preparation of S-doped TiO2 photocatalysts and their photocatalytic activities under visible light. *Applied Catalysis A: General*, **2004**, 265, 115-121	5.1	1082
75	Crystal faces of rutile and anatase TiO2 particles and their roles in photocatalytic reactions. *New Journal of Chemistry*, **2002**, 26, 1167-1170	3.6	653
74	Synergism between rutile and anatase TiO2 particles in photocatalytic oxidation of naphthalene. *Applied Catalysis A: General*, **2003**, 244, 383-391	5.1	495
73	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	3.8	262
72	Photoelectrochemical CO2 reduction by a p-type boron-doped g-C3N4 electrode under visible light. *Applied Catalysis B: Environmental*, **2016**, 192, 193-198	21.8	221
71	Unique Effects of Iron(III) Ions on Photocatalytic and Photoelectrochemical Properties of Titanium Dioxide. *Journal of Physical Chemistry B*, **1997**, 101, 6415-6419	3.4	171
70	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	7.6	163
69	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	5.1	149
68	Degradation of Methylene Blue on Carbonate Species-doped TiO2Photocatalysts under Visible Light. *Chemistry Letters*, **2004**, 33, 750-751	1.7	144
67	Trapping-Induced Enhancement of Photocatalytic Activity on Brookite TiO2 Powders: Comparison with Anatase and Rutile TiO2 Powders. *ACS Catalysis*, **2017**, 7, 2644-2651	13.1	134
66	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	21.8	97
65	Atomically dispersed antimony on carbon nitride for the artificial photosynthesis of hydrogen peroxide. *Nature Catalysis*, **2021**, 4, 374-384	36.5	96
64	Development of highly efficient sulfur-doped TiO2 photocatalysts hybridized with graphitic carbon nitride. *Applied Catalysis B: Environmental*, **2013**, 142-143, 362-367	21.8	90
63	Exposed crystal surface-controlled TiO2 nanorods having rutile phase from TiCl3 under hydrothermal conditions. *Journal of Molecular Catalysis A*, **2009**, 300, 72-79		89
62	Morphology control and characterization of broom-like porous CeO2. *Chemical Engineering Journal*, **2015**, 260, 126-132	14.7	73
61	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	21.8	71
60	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	21.8	70

59	Development of a visible-light-responsive rutile rod by site-selective modification of iron(III) ion on {111} exposed crystal faces. *Applied Catalysis B: Environmental*, **2010**, 97, 115-119	21.8	60
58	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	3.7	59
57	Synthesis of Y-doped CeO2/PCN nanocomposited photocatalyst with promoted photoredox performance. *Applied Catalysis B: Environmental*, **2019**, 243, 513-521	21.8	58
56	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	3.8	57
55	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	3.8	54
54	Dependence of Photocatalytic Activity on Aspect Ratio of Shape-Controlled Rutile Titanium(IV) Oxide Nanorods. *Journal of Physical Chemistry C*, **2011**, 115, 419-424	3.8	54
53	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	6.7	48
52	Improving g-C3N4 photocatalytic performance by hybridizing with Bi2O2CO3 nanosheets. *Catalysis Today*, **2017**, 284, 27-36	5.3	43
51	Synthesis and photocatalytic performance of yttrium-doped CeO2 with a porous broom-like hierarchical structure. *Applied Catalysis B: Environmental*, **2016**, 183, 361-370	21.8	42
50	Novel hydrothermal preparation of pure brookite-type titanium(IV) oxide nanocrystal under strong acidic conditions. *Catalysis Communications*, **2009**, 10, 963-966	3.2	39
49	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	21.8	38
48	Bio-inspired carbon doped graphitic carbon nitride with booming photocatalytic hydrogen evolution. *Applied Catalysis B: Environmental*, **2019**, 246, 61-71	21.8	38
47	Fabrication and characterization of a p-type Cu3Nb2O8 photocathode toward photoelectrochemical reduction of carbon dioxide. *Applied Catalysis B: Environmental*, **2015**, 174-175, 471-476	21.8	37
46	Hydrogen bonds in heterojunction photocatalysts for efficient charge transfer. *Applied Catalysis B: Environmental*, **2018**, 234, 198-205	21.8	34
45	Synthesis and photocatalytic performance of yttrium-doped CeO2 with a hollow sphere structure. *Catalysis Today*, **2017**, 281, 135-143	5.3	34
44	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	21.8	33
43	Porous cerium dioxide hollow spheres and their photocatalytic performance. *RSC Advances*, **2014**, 4, 62255-62261	3.7	32
42	Effect of chemical etching by sulfuric acid or H2O2–NH3 mixed solution on the photocatalytic activity of rutile TiO2 nanorods. *Applied Catalysis A: General*, **2010**, 380, 48-54	5.1	31

41	Defect as the essential factor in engineering carbon-nitride-based visible-light-driven Z-scheme photocatalyst. *Applied Catalysis B: Environmental*, **2020**, 260, 118145	21.8	31
40	Morphology control and photocatalytic characterization of yttrium-doped hedgehog-like CeO2. *Applied Catalysis B: Environmental*, **2015**, 164, 120-127	21.8	30
39	Improving the Visible-Light Photocatalytic Activity of Graphitic Carbon Nitride by Carbon Black Doping. *ACS Omega*, **2018**, 3, 15009-15017	3.9	30
38	Constructing hydrogen bond based melam/WO3 heterojunction with enhanced visible-light photocatalytic activity. *Applied Catalysis B: Environmental*, **2017**, 205, 569-575	21.8	29
37	Black phosphorus: an efficient co-catalyst for charge separation and enhanced photocatalytic hydrogen evolution. *Journal of Materials Science*, **2018**, 53, 16557-16566	4.3	28
36	A new precursor to synthesize g-C3N4 with superior visible light absorption for photocatalytic application. *Catalysis Science and Technology*, **2017**, 7, 1826-1830	5.5	27
35	Charge Transfer Doping Modulated Raman Scattering and Enhanced Stability of Black Phosphorus Quantum Dots on a ZnO Nanorod. *Advanced Optical Materials*, **2018**, 6, 1800440	8.1	27
34	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		25
33	Design and Synthesis of Sm, Y, La and Nd-doped CeO2 with a broom-like hierarchical structure: a photocatalyst with enhanced oxidation performance. *ChemCatChem*, **2020**, 12, 2638-2646	5.2	25
32	Non-precious molybdenum nanospheres as a novel cocatalyst for full-spectrum-driven photocatalytic CO reforming to CH. *Journal of Hazardous Materials*, **2020**, 393, 122324	12.8	24
31	Boosting visible-light-driven photocatalytic performance of waxberry-like CeO2 by samarium doping and silver QDs anchoring. *Applied Catalysis B: Environmental*, **2021**, 286, 119845	21.8	24
30	Multifunctional molybdenum oxide for solar-driven water evaporation and charged dyes adsorption. *Applied Surface Science*, **2019**, 491, 328-334	6.7	23
29	Oxygen induced enhancement of NIR emission in brookite TiO powders: comparison with rutile and anatase TiO powders. *Physical Chemistry Chemical Physics*, **2018**, 20, 3241-3248	3.6	23
28	High visible-light active Ir-doped-TiO2 brookite photocatalyst synthesized by hydrothermal microwave-assisted process. *Catalysis Today*, **2014**, 230, 214-220	5.3	23
27	Improvement of visible light photocatalytic acetaldehyde decomposition of bismuth vanadate/silica nanocomposites by cocatalyst loading. *Journal of Hazardous Materials*, **2012**, 211-212, 83-7	12.8	23
26	A facile approach to build Bi2O2CO3/PCN nanohybrid photocatalysts for gaseous acetaldehyde efficient removal. *Catalysis Today*, **2018**, 315, 184-193	5.3	22
25	Photoexcited single metal atom catalysts for heterogeneous photocatalytic H2O2 production: Pragmatic guidelines for predicting charge separation. *Applied Catalysis B: Environmental*, **2021**, 282, 119589	21.8	22
24	Development of the Visible-Light Response of CeO2 with a high Ce3+ Content and Its Photocatalytic Properties. *ChemCatChem*, **2018**, 10, 1267-1271	5.2	21

23	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	21.8	19
22	A facile approach to fabricating carbonaceous material/g-C3N4 composites with superior photocatalytic activity. *Catalysis Today*, **2018**, 315, 149-154	5.3	17
21	Ce-Doped Graphitic Carbon Nitride Derived from Metal Organic Frameworks as a Visible Light-Responsive Photocatalyst for H Production. *Nanomaterials*, **2019**, 9,	5.4	13
20	Controlled structure of anatase TiO2 nanoparticles by using organic additives in a microwave process. *Applied Catalysis A: General*, **2011**, 406, 119-123	5.1	10
19	Multifunctional Zn-Al layered double hydroxides for surface-enhanced Raman scattering and surface-enhanced infrared absorption. *Dalton Transactions*, **2019**, 48, 426-434	4.3	9
18	A Fluorescence Probe for Metal Ions Based on Black Phosphorus Quantum Dots. *Advanced Materials Interfaces*, **2020**, 7, 1902075	4.6	9
17	Fabrication of morphology-controlled TiO2 photocatalyst nanoparticles and improvement of photocatalytic activities by modification of Fe compounds. *Rare Metals*, **2015**, 34, 291-300	5.5	9
16	Infrared response in photocatalytic polymeric carbon nitride for water splitting via an upconversion mechanism. *Communications Materials*, **2020**, 1,	6	9
15	Photoinduced electron transfer in semiconductor–clay binary nanosheet colloids controlled by clay particles as a turnout switch. *Applied Catalysis B: Environmental*, **2019**, 241, 499-505	21.8	9
14	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	4.7	8
13	Novel cerium-based MOFs photocatalyst for photocarrier collaborative performance under visible light. *Journal of Catalysis*, **2021**,	7.3	8
12	Development of Plasmonic Photocatalyst by Site-selective Loading of Bimetallic Nanoparticles of Au and Ag on Titanium(IV) Oxide. *ChemCatChem*, **2020**, 12, 3783-3792	5.2	7
11	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	3.8	7
10	Solar-Driven Hydrogen Generation Catalyzed by g-CN with Poly(platinaynes) as Efficient Electron Donor at Low Platinum Content. *Advanced Science*, **2021**, 8, 2002465	13.6	7
9	Effects of the Atmosphere in a Hydrothermal Process on the Morphology and Photocatalytic Activity of Cerium Oxide. *ChemCatChem*, **2018**, 10, 4269-4273	5.2	6
8	Stannous oxide promoted charge separation in rationally designed heterojunction photocatalysts with a controllable mechanism. *Dalton Transactions*, **2018**, 47, 12734-12741	4.3	6
7	Fabrication and characterization of sesame ball-like CeO2:Y3+/P(St-AA) composite microspheres based on electrostatic interaction. *Materials Letters*, **2014**, 121, 109-112	3.3	3
6	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	21.8	3

5	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	6.4	1
4	Carbon Nitride Functionalized with Sb Resulting in High Photocatalytic Activity. *ACS Applied Energy Materials*, **2021**, 4, 5677-5686	6.1	1
3	Development of Visible Light Responsive Morphology Controlled TiO2 Photocatalyst. *Nanostructure Science and Technology*, **2016**, 79-98	0.9	1
2	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	2.6	0
1	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	5.1	0