

# Zhengyuan Jin

## 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.

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	Visible light-driven H <sub>2</sub> O <sub>2</sub> synthesis by a Cu <sub>3</sub> BiS <sub>3</sub> photocathode via a photoelectrochemical indirect two-electron oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 307, 121152	21.8	3
75	Fe(III)-Pt(II) oxide-co-sensitized brookite TiO <sub>2</sub> nanorods for photocatalytic degradation of acetaldehyde under visible light. <i>Applied Catalysis A: General</i> , <b>2022</b> , 634, 118539	5.1	0
74	Novel cerium-based MOFs photocatalyst for photocarrier collaborative performance under visible light. <i>Journal of Catalysis</i> , <b>2021</b> ,	7.3	8
73	Atomically dispersed antimony on carbon nitride for the artificial photosynthesis of hydrogen peroxide. <i>Nature Catalysis</i> , <b>2021</b> , 4, 374-384	36.5	96
72	Boosting visible-light-driven photocatalytic performance of waxberry-like CeO <sub>2</sub> by samarium doping and silver QDs anchoring. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 286, 119845	21.8	24
71	Carbon Nitride Functionalized with Sb Resulting in High Photocatalytic Activity. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 5677-5686	6.1	1
70	Photoexcited single metal atom catalysts for heterogeneous photocatalytic H <sub>2</sub> O <sub>2</sub> production: Pragmatic guidelines for predicting charge separation. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 282, 119589	21.8	22
69	Effective Photocatalytic Hydrogen Evolution Using Covalent Triazine Framework-Derived Carbon Nitride Nanofiber Containing Carbon Vacancies for Visible-Light-Driven. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 7222	2.6	0
68	Solar-Driven Hydrogen Generation Catalyzed by g-CN with Poly(platinaynes) as Efficient Electron Donor at Low Platinum Content. <i>Advanced Science</i> , <b>2021</b> , 8, 2002465	13.6	7
67	Non-precious molybdenum nanospheres as a novel cocatalyst for full-spectrum-driven photocatalytic CO reforming to CH <sub>4</sub> . <i>Journal of Hazardous Materials</i> , <b>2020</b> , 393, 122324	12.8	24
66	A Fluorescence Probe for Metal Ions Based on Black Phosphorus Quantum Dots. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 1902075	4.6	9
65	Bandgap engineering of polymetric carbon nitride copolymerized by 2,5,8-triamino-tri-s-triazine (melem) and barbituric acid for efficient nonsacrificial photocatalytic H <sub>2</sub> O <sub>2</sub> production. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 271, 118917	21.8	33
64	Development of Plasmonic Photocatalyst by Site-selective Loading of Bimetallic Nanoparticles of Au and Ag on Titanium(IV) Oxide. <i>ChemCatChem</i> , <b>2020</b> , 12, 3783-3792	5.2	7
63	Design and Synthesis of Sm, Y, La and Nd-doped CeO <sub>2</sub> with a broom-like hierarchical structure: a photocatalyst with enhanced oxidation performance. <i>ChemCatChem</i> , <b>2020</b> , 12, 2638-2646	5.2	25
62	Infrared response in photocatalytic polymeric carbon nitride for water splitting via an upconversion mechanism. <i>Communications Materials</i> , <b>2020</b> , 1,	6	9
61	Defect as the essential factor in engineering carbon-nitride-based visible-light-driven Z-scheme photocatalyst. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 260, 118145	21.8	31
60	Multifunctional Zn-Al layered double hydroxides for surface-enhanced Raman scattering and surface-enhanced infrared absorption. <i>Dalton Transactions</i> , <b>2019</b> , 48, 426-434	4.3	9

59	Multifunctional molybdenum oxide for solar-driven water evaporation and charged dyes adsorption. <i>Applied Surface Science</i> , <b>2019</b> , 491, 328-334	6.7	23
58	Ce-Doped Graphitic Carbon Nitride Derived from Metal Organic Frameworks as a Visible Light-Responsive Photocatalyst for H <sub>2</sub> Production. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	13
57	Photoinduced electron transfer in semiconductor/clay binary nanosheet colloids controlled by clay particles as a turnout switch. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 241, 499-505	21.8	9
56	Development of visible-light-responsive morphology-controlled brookite TiO <sub>2</sub> nanorods by site-selective loading of AuAg bimetallic nanoparticles. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 245, 681-690	21.8	19
55	Bio-inspired carbon doped graphitic carbon nitride with booming photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 246, 61-71	21.8	38
54	Synthesis of Y-doped CeO <sub>2</sub> /PCN nanocomposited photocatalyst with promoted photoredox performance. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 243, 513-521	21.8	58
53	Hydrogen bonds in heterojunction photocatalysts for efficient charge transfer. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 234, 198-205	21.8	34
52	A facile approach to build Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> /PCN nanohybrid photocatalysts for gaseous acetaldehyde efficient removal. <i>Catalysis Today</i> , <b>2018</b> , 315, 184-193	5.3	22
51	Solar-driven H <sub>2</sub> evolution over CuNb <sub>2</sub> O <sub>6</sub> : Effect of two polymorphs (monoclinic and orthorhombic) on optical property and photocatalytic activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2018</b> , 356, 263-271	4.7	8
50	A facile approach to fabricating carbonaceous material/g-C <sub>3</sub> N <sub>4</sub> composites with superior photocatalytic activity. <i>Catalysis Today</i> , <b>2018</b> , 315, 149-154	5.3	17
49	Oxygen induced enhancement of NIR emission in brookite TiO <sub>2</sub> powders: comparison with rutile and anatase TiO <sub>2</sub> powders. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 3241-3248	3.6	23
48	Effects of the Atmosphere in a Hydrothermal Process on the Morphology and Photocatalytic Activity of Cerium Oxide. <i>ChemCatChem</i> , <b>2018</b> , 10, 4269-4273	5.2	6
47	Stannous oxide promoted charge separation in rationally designed heterojunction photocatalysts with a controllable mechanism. <i>Dalton Transactions</i> , <b>2018</b> , 47, 12734-12741	4.3	6
46	Black phosphorus: an efficient co-catalyst for charge separation and enhanced photocatalytic hydrogen evolution. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 16557-16566	4.3	28
45	Development of the Visible-Light Response of CeO <sub>2</sub> with a high Ce <sup>3+</sup> Content and Its Photocatalytic Properties. <i>ChemCatChem</i> , <b>2018</b> , 10, 1267-1271	5.2	21
44	Improving the Visible-Light Photocatalytic Activity of Graphitic Carbon Nitride by Carbon Black Doping. <i>ACS Omega</i> , <b>2018</b> , 3, 15009-15017	3.9	30
43	Direct Imaging of Atomic-Scale Surface Structures of Brookite TiO <sub>2</sub> Nanoparticles by Frequency Modulation Atomic Force Microscopy in Liquid. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 24085-24093	3.8	7
42	Co <sub>3</sub> O <sub>4</sub> /Ni-based MOFs on carbon cloth for flexible alkaline battery-supercapacitor hybrid devices and near-infrared photocatalytic hydrogen evolution. <i>Electrochimica Acta</i> , <b>2018</b> , 281, 189-197	6.7	48

41	Charge Transfer Doping Modulated Raman Scattering and Enhanced Stability of Black Phosphorus Quantum Dots on a ZnO Nanorod. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800440	8.1	27
40	Constructing hydrogen bond based melam/WO <sub>3</sub> heterojunction with enhanced visible-light photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 205, 569-575	21.8	29
39	Trapping-Induced Enhancement of Photocatalytic Activity on Brookite TiO <sub>2</sub> Powders: Comparison with Anatase and Rutile TiO <sub>2</sub> Powders. <i>ACS Catalysis</i> , <b>2017</b> , 7, 2644-2651	13.1	134
38	Effect of core@shell (Au@Ag) nanostructure on surface plasmon-induced photocatalytic activity under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 211, 11-17	21.8	38
37	A new precursor to synthesize g-C <sub>3</sub> N <sub>4</sub> with superior visible light absorption for photocatalytic application. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 1826-1830	5.5	27
36	Improving g-C <sub>3</sub> N <sub>4</sub> photocatalytic performance by hybridizing with Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> nanosheets. <i>Catalysis Today</i> , <b>2017</b> , 284, 27-36	5.3	43
35	Synthesis and photocatalytic performance of yttrium-doped CeO <sub>2</sub> with a hollow sphere structure. <i>Catalysis Today</i> , <b>2017</b> , 281, 135-143	5.3	34
34	Synthesis and photocatalytic performance of yttrium-doped CeO <sub>2</sub> with a porous broom-like hierarchical structure. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 183, 361-370	21.8	42
33	Photoelectrochemical CO <sub>2</sub> reduction by a p-type boron-doped g-C <sub>3</sub> N <sub>4</sub> electrode under visible light. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 192, 193-198	21.8	221
32	Development of Visible Light Responsive Morphology Controlled TiO <sub>2</sub> Photocatalyst. <i>Nanostructure Science and Technology</i> , <b>2016</b> , 79-98	0.9	1
31	Fabrication and characterization of a p-type Cu <sub>3</sub> Nb <sub>2</sub> O <sub>8</sub> photocathode toward photoelectrochemical reduction of carbon dioxide. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 174-175, 471-476	21.8	37
30	Low-temperature preparation of a molybdenum oxide hole collection layer by using a peroxo precursor for polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2015</b> , 143, 522-528	6.4	1
29	Synthesis high specific surface area nanotube g-C <sub>3</sub> N <sub>4</sub> with two-step condensation treatment of melamine to enhance photocatalysis properties. <i>RSC Advances</i> , <b>2015</b> , 5, 4026-4029	3.7	59
28	Dependence of photocatalytic activity on aspect ratio of a brookite TiO <sub>2</sub> nanorod and drastic improvement in visible light responsibility of a brookite TiO <sub>2</sub> nanorod by site-selective modification of Fe <sup>3+</sup> on exposed faces. <i>Journal of Molecular Catalysis A</i> , <b>2015</b> , 396, 261-267		25
27	Morphology control and characterization of broom-like porous CeO <sub>2</sub> . <i>Chemical Engineering Journal</i> , <b>2015</b> , 260, 126-132	14.7	73
26	Morphology control and photocatalytic characterization of yttrium-doped hedgehog-like CeO <sub>2</sub> . <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 164, 120-127	21.8	30
25	Fabrication of morphology-controlled TiO <sub>2</sub> photocatalyst nanoparticles and improvement of photocatalytic activities by modification of Fe compounds. <i>Rare Metals</i> , <b>2015</b> , 34, 291-300	5.5	9
24	Fabrication and characterization of sesame ball-like CeO <sub>2</sub> :Y <sup>3+</sup> /P(St-AA) composite microspheres based on electrostatic interaction. <i>Materials Letters</i> , <b>2014</b> , 121, 109-112	3.3	3

23	Photocatalytic reduction of CO <sub>2</sub> over a hybrid photocatalyst composed of WO <sub>3</sub> and graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ) under visible light. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2014</b> , 6, 17-25	7.6	163
22	Porous cerium dioxide hollow spheres and their photocatalytic performance. <i>RSC Advances</i> , <b>2014</b> , 4, 62255-62261	5.5	51
21	Dependence of Activity of Rutile Titanium(IV) Oxide Powder for Photocatalytic Overall Water Splitting on Structural Properties. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 9093-9100	3.8	54
20	Photocatalytic reduction of CO <sub>2</sub> over exposed-crystal-face-controlled TiO <sub>2</sub> nanorod having a brookite phase with co-catalyst loading. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 152-153, 309-316	21.8	71
19	High visible-light active Ir-doped-TiO <sub>2</sub> brookite photocatalyst synthesized by hydrothermal microwave-assisted process. <i>Catalysis Today</i> , <b>2014</b> , 230, 214-220	5.3	23
18	Complete oxidation of acetaldehyde over a composite photocatalyst of graphitic carbon nitride and tungsten(VI) oxide under visible-light irradiation. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 150-151, 479-485	21.8	97
17	Bifunctionality of Rh <sup>3+</sup> Modifier on TiO <sub>2</sub> and Working Mechanism of Rh <sup>3+</sup> /TiO <sub>2</sub> Photocatalyst under Irradiation of Visible Light. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 11008-11016	3.8	57
16	Development of highly efficient sulfur-doped TiO <sub>2</sub> photocatalysts hybridized with graphitic carbon nitride. <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 142-143, 362-367	21.8	90
15	Improvement of visible light photocatalytic acetaldehyde decomposition of bismuth vanadate/silica nanocomposites by cocatalyst loading. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 211-212, 83-7	12.8	23
14	Controlled structure of anatase TiO <sub>2</sub> nanoparticles by using organic additives in a microwave process. <i>Applied Catalysis A: General</i> , <b>2011</b> , 406, 119-123	5.1	10
13	Dependence of Photocatalytic Activity on Aspect Ratio of Shape-Controlled Rutile Titanium(IV) Oxide Nanorods. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 419-424	3.8	54
12	Development of a visible-light-responsive rutile rod by site-selective modification of iron(III) ion on {111} exposed crystal faces. <i>Applied Catalysis B: Environmental</i> , <b>2010</b> , 97, 115-119	21.8	60
11	Effect of chemical etching by sulfuric acid or H <sub>2</sub> O <sub>2</sub> /NH <sub>3</sub> mixed solution on the photocatalytic activity of rutile TiO <sub>2</sub> nanorods. <i>Applied Catalysis A: General</i> , <b>2010</b> , 380, 48-54	5.1	31
10	Exposed crystal surface-controlled TiO <sub>2</sub> nanorods having rutile phase from TiCl <sub>3</sub> under hydrothermal conditions. <i>Journal of Molecular Catalysis A</i> , <b>2009</b> , 300, 72-79		89
9	Exposed crystal surface-controlled rutile TiO <sub>2</sub> nanorods prepared by hydrothermal treatment in the presence of poly(vinyl pyrrolidone). <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 91, 634-639	21.8	70
8	Novel hydrothermal preparation of pure brookite-type titanium(IV) oxide nanocrystal under strong acidic conditions. <i>Catalysis Communications</i> , <b>2009</b> , 10, 963-966	3.2	39
7	Shape-Controlled Anatase Titanium(IV) Oxide Particles Prepared by Hydrothermal Treatment of Peroxo Titanic Acid in the Presence of Polyvinyl Alcohol. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 3062-3069	3.8	262
6	Switching redox site of photocatalytic reaction on titanium(IV) oxide particles modified with transition-metal ion controlled by irradiation wavelength. <i>Applied Catalysis A: General</i> , <b>2008</b> , 348, 148-152	5.1	149

5	Preparation of S-doped TiO <sub>2</sub> photocatalysts and their photocatalytic activities under visible light. <i>Applied Catalysis A: General</i> , <b>2004</b> , 265, 115-121	5.1	1082
4	Degradation of Methylene Blue on Carbonate Species-doped TiO <sub>2</sub> Photocatalysts under Visible Light. <i>Chemistry Letters</i> , <b>2004</b> , 33, 750-751	1.7	144
3	Synergism between rutile and anatase TiO <sub>2</sub> particles in photocatalytic oxidation of naphthalene. <i>Applied Catalysis A: General</i> , <b>2003</b> , 244, 383-391	5.1	495
2	Crystal faces of rutile and anatase TiO <sub>2</sub> particles and their roles in photocatalytic reactions. <i>New Journal of Chemistry</i> , <b>2002</b> , 26, 1167-1170	3.6	653
1	Unique Effects of Iron(III) Ions on Photocatalytic and Photoelectrochemical Properties of Titanium Dioxide. <i>Journal of Physical Chemistry B</i> , <b>1997</b> , 101, 6415-6419	3.4	171