

Jian Zhu

List of Publications by Year in descending order

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45
papers

4,934
citations

136950

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233421

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46
all docs

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docs citations

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times ranked

6980
citing authors

#	ARTICLE	IF	CITATIONS
1	Bio-alcohol induced self-assembly of heterojunctioned TiO ₂ /WO ₃ composites into a hierarchical yolk-shell structure for photocatalysis. <i>Chemical Communications</i> , 2021, 57, 6883-6886.	4.1	8
2	Self-Driven Reactive Oxygen Species Generation via Interfacial Oxygen Vacancies on Carbon-Coated TiO ₂ with Versatile Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2033-2043.	8.0	34
3	Particulate Anion Sorbents as Electrolyte Additives for Lithium Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2003055.	14.9	38
4	MOFs Conferred with Transient Metal Centers for Enhanced Photocatalytic Activity. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17182-17186.	13.8	121
5	Selective CO ₂ reduction to HCOOH on a Pt/In ₂ O ₃ /g-C ₃ N ₄ multifunctional visible-photocatalyst. <i>RSC Advances</i> , 2020, 10, 22460-22467.	3.6	15
6	Multi-functional anodes boost the transient power and durability of proton exchange membrane fuel cells. <i>Nature Communications</i> , 2020, 11, 1191.	12.8	65
7	Piezo-promoted the generation of reactive oxygen species and the photodegradation of organic pollutants. <i>Applied Catalysis B: Environmental</i> , 2019, 258, 118024.	20.2	84
8	Ordered mesoporous Fe/TiO ₂ with light enhanced photo-Fenton activity. <i>Chinese Journal of Catalysis</i> , 2019, 40, 631-637.	14.0	35
9	Enhanced soot oxidation activity over CuO/CeO ₂ mesoporous nanosheets. <i>Catalysis Science and Technology</i> , 2019, 9, 1699-1709.	4.1	39
10	Microwave induced surface enhanced pollutant adsorption and photocatalytic degradation on Ag/TiO ₂ . <i>Applied Surface Science</i> , 2019, 483, 772-778.	6.1	103
11	Unveiling the Role of Defects on Oxygen Activation and Photodegradation of Organic Pollutants. <i>Environmental Science & Technology</i> , 2018, 52, 13879-13886.	10.0	167
12	Solvothermal alcoholysis synthesis of hierarchical TiO ₂ with enhanced activity in environmental and energy photocatalysis. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2016, 28, 72-86.	11.6	84
13	Hierarchical Nanostructured WO ₃ with Biomimetic Proton Channels and Mixed Ionic-Electronic Conductivity for Electrochemical Energy Storage. <i>Nano Letters</i> , 2015, 15, 6802-6808.	9.1	157
14	Dye-sensitized solar cells with enhanced efficiency using hierarchical TiO ₂ spheres as a scattering layer. <i>RSC Advances</i> , 2014, 4, 36206.	3.6	12
15	Covalent attachment and growth of nanocrystalline films of photocatalytic TiOF ₂ . <i>Nanoscale</i> , 2014, 6, 14648-14651.	5.6	15
16	Ordered mesoporous TiO ₂ with exposed (001) facets and enhanced activity in photocatalytic selective oxidation of alcohols. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1296-1302.	10.3	90
17	Synchronical pollutant degradation and H ₂ production on a Ti ³⁺ -doped TiO ₂ visible photocatalyst with dominant (001) facets. <i>Applied Catalysis B: Environmental</i> , 2013, 134-135, 198-204.	20.2	135
18	Mesoporous yolk-shell SnS ₂ -TiO ₂ visible photocatalysts with enhanced activity and durability in Cr(vi) reduction. <i>Nanoscale</i> , 2013, 5, 1876.	5.6	105

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19	Synthesis and Self-Assembly of Photonic Materials from Nanocrystalline Titania Sheets. <i>Journal of the American Chemical Society</i> , 2013, 135, 4719-4721.	13.7	51
20	Core-shell structure CdS/TiO ₂ for enhanced visible-light-driven photocatalytic organic pollutants degradation. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 66, 504-511.	2.4	29
21	Mesoporous TiN Microspheres with Hierarchical Chambers and Enhanced Visible Light-Driven Hydrogen Evolution. <i>ChemSusChem</i> , 2013, 6, 1461-1466.	6.8	26
22	An efficient round-the-clock La ₂ NiO ₄ catalyst for breaking down phenolic pollutants. <i>RSC Advances</i> , 2012, 2, 4822.	3.6	25
23	Multitemplates for the Hierarchical Synthesis of Diverse Inorganic Materials. <i>Journal of the American Chemical Society</i> , 2012, 134, 2325-2331.	13.7	68
24	Microwave-assisted architectural control fabrication of 3D CdS structures. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 62, 140-148.	2.4	10
25	Comparative study on the mechanism in photocatalytic degradation of different-type organic dyes on SnS ₂ and CdS. <i>Applied Catalysis B: Environmental</i> , 2012, 123-124, 174-181.	20.2	219
26	Aerosol-spraying preparation of a mesoporous hollow spherical BiFeO ₃ visible photocatalyst with enhanced activity and durability. <i>Chemical Communications</i> , 2011, 47, 2089-2091.	4.1	95
27	Hexagonal single crystal growth of WO ₃ nanorods along a [110] axis with enhanced adsorption capacity. <i>Chemical Communications</i> , 2011, 47, 4403.	4.1	127
28	Photocatalytic oxidation of toluene to benzaldehyde over anatase TiO ₂ hollow spheres with exposed {001} facets. <i>Catalysis Communications</i> , 2011, 12, 946-950.	3.3	47
29	Graphite-like carbon deposited anatase TiO ₂ single crystals as efficient visible-light photocatalysts. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 58, 594-601.	2.4	23
30	Single-Crystal-Like Titania Mesocages. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1105-1108.	13.8	94
31	Highly active and durable Bi ₂ O ₃ /TiO ₂ visible photocatalyst in flower-like spheres with surface-enriched Bi ₂ O ₃ quantum dots. <i>Applied Catalysis B: Environmental</i> , 2011, 102, 120-125.	20.2	122
32	Solvothermal Synthesis of TiO ₂ Hollow Microsphere and Its Photocatalytic Properties. <i>Advanced Materials Research</i> , 2011, 356-360, 345-348.	0.3	0
33	Solvothermal synthesis of well-defined TiO ₂ mesoporous nanotubes with enhanced photocatalytic activity. <i>Chemical Communications</i> , 2010, 46, 8451.	4.1	61
34	Solvothermally controllable synthesis of anatase TiO ₂ nanocrystals with dominant {001} facets and enhanced photocatalytic activity. <i>CrystEngComm</i> , 2010, 12, 2219.	2.6	178
35	A facile synthesis of hierarchical flower-like TiO ₂ with enhanced photocatalytic activity. <i>Research on Chemical Intermediates</i> , 2009, 35, 769-777.	2.7	33
36	Preparation of Mn ₂ O ₃ catalyst with core-shell structure via spray pyrolysis assisted with glucose. <i>Research on Chemical Intermediates</i> , 2009, 35, 791-798.	2.7	11

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37	Solvothermal synthesis of highly active Bi ₂ WO ₆ visible photocatalyst. Research on Chemical Intermediates, 2009, 35, 799-806.	2.7	24
38	Self-assembly of Bi _x Ti _{1-x} O ₂ visible photocatalyst with core-shell structure and enhanced activity. Applied Catalysis B: Environmental, 2009, 89, 577-582.	20.2	39
39	Aerosol-spraying synthesis of SiO ₂ /TiO ₂ nanocomposites and conversion to porous TiO ₂ and single-crystalline TiO ₂ . Chemical Communications, 2009, , 5394.	4.1	59
40	In situ encapsulation of Au nanoparticles in mesoporous core-shell TiO ₂ microspheres with enhanced activity and durability. Chemical Communications, 2009, , 3789.	4.1	119
41	Mesoporous Silica with Multiple Catalytic Functionalities. Advanced Functional Materials, 2008, 18, 3590-3597.	14.9	27
42	Highly Active TiO _{2-x} N _x Visible Photocatalyst Prepared by N-Doping in Et ₃ N/EtOH Fluid under Supercritical Conditions. Journal of Physical Chemistry C, 2008, 112, 6546-6550.	3.1	58
43	Nanocrystalline Fe/TiO ₂ Visible Photocatalyst with a Mesoporous Structure Prepared via a Nonhydrolytic Sol-Gel Route. Journal of Physical Chemistry C, 2007, 111, 18965-18969.	3.1	167
44	Mesoporous Titania Spheres with Tunable Chamber Structure and Enhanced Photocatalytic Activity. Journal of the American Chemical Society, 2007, 129, 8406-8407.	13.7	1,119
45	Mesoporous Au/TiO ₂ Nanocomposites with Enhanced Photocatalytic Activity. Journal of the American Chemical Society, 2007, 129, 4538-4539.	13.7	777