Jian Zhu

List of Publications by Year in descending order

45 papers	4,934 citations	136950 32 h-index	233421 45 g-index
46 all docs	46 docs citations	46 times ranked	6980 citing authors

#	Article	IF	Citations
1	Mesoporous Titania Spheres with Tunable Chamber Stucture and Enhanced Photocatalytic Activity. Journal of the American Chemical Society, 2007, 129, 8406-8407.	13.7	1,119
2	Mesoporous Au/TiO2Nanocomposites with Enhanced Photocatalytic Activity. Journal of the American Chemical Society, 2007, 129, 4538-4539.	13.7	777
3	Comparative study on the mechanism in photocatalytic degradation of different-type organic dyes on SnS2 and CdS. Applied Catalysis B: Environmental, 2012, 123-124, 174-181.	20.2	219
4	Solvothermally controllable synthesis of anatase TiO2 nanocrystals with dominant {001} facets and enhanced photocatalytic activity. CrystEngComm, 2010, 12, 2219.	2.6	178
5	Nanocrystalline Fe/TiO₂ Visible Photocatalyst with a Mesoporous Structure Prepared via a Nonhydrolytic Solâ^'Gel Route. Journal of Physical Chemistry C, 2007, 111, 18965-18969.	3.1	167
6	Unveiling the Role of Defects on Oxygen Activation and Photodegradation of Organic Pollutants. Environmental Science & Technology, 2018, 52, 13879-13886.	10.0	167
7	Hierarchical Nanostructured WO₃ with Biomimetic Proton Channels and Mixed Ionic-Electronic Conductivity for Electrochemical Energy Storage. Nano Letters, 2015, 15, 6802-6808.	9.1	157
8	Synchronical pollutant degradation and H2 production on a Ti3+-doped TiO2 visible photocatalyst with dominant (001) facets. Applied Catalysis B: Environmental, 2013, 134-135, 198-204.	20.2	135
9	Hexagonal single crystal growth of WO3 nanorods along a [110] axis with enhanced adsorption capacity. Chemical Communications, 2011, 47, 4403.	4.1	127
10	Highly active and durable Bi2O3/TiO2 visible photocatalyst in flower-like spheres with surface-enriched Bi2O3 quantum dots. Applied Catalysis B: Environmental, 2011, 102, 120-125.	20.2	122
11	MOFs Conferred with Transient Metal Centers for Enhanced Photocatalytic Activity. Angewandte Chemie - International Edition, 2020, 59, 17182-17186.	13.8	121
12	In situ encapsulation of Au nanoparticles in mesoporous coreâ€“shell TiO2 microspheres with enhanced activity and durability. Chemical Communications, 2009, , 3789.	4.1	119
13	Mesoporous yolkâ€“shell SnS2â€“TiO2 visible photocatalysts with enhanced activity and durability in Cr(vi) reduction. Nanoscale, 2013, 5, 1876.	5.6	105
14	Microwave induced surface enhanced pollutant adsorption and photocatalytic degradation on Ag/TiO2. Applied Surface Science, 2019, 483, 772-778.	6.1	103
15	Aerosol-spraying preparation of a mesoporous hollow spherical BiFeO₃visible photocatalyst with enhanced activity and durability. Chemical Communications, 2011, 47, 2089-2091.	4.1	95
16	Singleâ€Crystalâ€like Titania Mesocages. Angewandte Chemie - International Edition, 2011, 50, 1105-1108.	13.8	94
17	Ordered mesoporous TiO₂with exposed (001) facets and enhanced activity in photocatalytic selective oxidation of alcohols. Journal of Materials Chemistry A, 2013, 1, 1296-1302.	10.3	90
18	Solvothermal alcoholysis synthesis of hierarchical TiO 2 with enhanced activity in environmental and energy photocatalysis. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2016, 28, 72-86.	11.6	84

#	Article	IF	Citations
19	Piezo-promoted the generation of reactive oxygen species and the photodegradation of organic pollutants. Applied Catalysis B: Environmental, 2019, 258, 118024.	20.2	84
20	Multitemplates for the Hierarchical Synthesis of Diverse Inorganic Materials. Journal of the American Chemical Society, 2012, 134, 2325-2331.	13.7	68
21	Multi-functional anodes boost the transient power and durability of proton exchange membrane fuel cells. Nature Communications, 2020, 11, 1191.	12.8	65
22	Solvothermal synthesis of well-defined TiO2 mesoporous nanotubes with enhanced photocatalytic activity. Chemical Communications, 2010, 46, 8451.	4.1	61
23	Aerosol-spraying synthesis of SiO2/TiO2 nanocomposites and conversion to porous TiO2 and single-crystalline TiOF2. Chemical Communications, 2009, , 5394.	4.1	59
24	Highly Active TiO₂₋_xN_x Visible Photocatalyst Prepared by N-Doping in Et₃N/EtOH Fluid under Supercritical Conditions. Journal of Physical Chemistry C, 2008, 112, 6546-6550.	3.1	58
25	Synthesis and Self-Assembly of Photonic Materials from Nanocrystalline Titania Sheets. Journal of the American Chemical Society, 2013, 135, 4719-4721.	13.7	51
26	Photocatalytic oxidation of toluene to benzaldehyde over anatase TiO2 hollow spheres with exposed {001} facets. Catalysis Communications, 2011, 12, 946-950.	3.3	47
27	Self-assembly of BixTi1â^'xO2 visible photocatalyst with coreâ€“shell structure and enhanced activity. Applied Catalysis B: Environmental, 2009, 89, 577-582.	20.2	39
28	Enhanced soot oxidation activity over CuO/CeO₂ mesoporous nanosheets. Catalysis Science and Technology, 2019, 9, 1699-1709.	4.1	39
29	Particulate Anion Sorbents as Electrolyte Additives for Lithium Batteries. Advanced Functional Materials, 2020, 30, 2003055.	14.9	38
30	Ordered mesoporous Fe/TiO2 with light enhanced photo-Fenton activity. Chinese Journal of Catalysis, 2019, 40, 631-637.	14.0	35
31	Self-Driven Reactive Oxygen Species Generation via Interfacial Oxygen Vacancies on Carbon-Coated TiO_{2â€“x} with Versatile Applications. ACS Applied Materials & Interfaces, 2021, 13, 2033-2043.	8.0	34
32	A facile synthesis of hierarchical flower-like TiO2 with enhanced photocatalytic activity. Research on Chemical Intermediates, 2009, 35, 769-777.	2.7	33
33	Core-shell structure CdS/TiO2 for enhanced visible-light-driven photocatalytic organic pollutants degradation. Journal of Sol-Gel Science and Technology, 2013, 66, 504-511.	2.4	29
34	Mesoporous Silica with Multiple Catalytic Functionalities. Advanced Functional Materials, 2008, 18, 3590-3597.	14.9	27
35	Mesoporous TiN Microspheres with Hierarchical Chambers and Enhanced Visible Lightâ€Ðriven Hydrogen Evolution. ChemSusChem, 2013, 6, 1461-1466.	6.8	26
36	An efficient round-the-clock La2NiO4 catalyst for breaking down phenolic pollutants. RSC Advances, 2012, 2, 4822.	3.6	25

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37	Solvothermal synthesis of highly active Bi2WO6 visible photocatalyst. Research on Chemical Intermediates, 2009, 35, 799-806.	2.7	24
38	Graphite-like carbon deposited anatase TiO2 single crystals as efficient visible-light photocatalysts. Journal of Sol-Gel Science and Technology, 2011, 58, 594-601.	2.4	23
39	Covalent attachment and growth of nanocrystalline films of photocatalytic TiOF₂. Nanoscale, 2014, 6, 14648-14651.	5.6	15
40	Selective CO₂ reduction to HCOOH on a Pt/In₂O₃/g-C₃N₄ multifunctional visible-photocatalyst. RSC Advances, 2020, 10, 22460-22467.	3.6	15
41	Dye-sensitized solar cells with enhanced efficiency using hierarchical TiO2spheres as a scattering layer. RSC Advances, 2014, 4, 36206.	3.6	12
42	Preparation of Mn2O3 catalyst with coreâ€“shell structure via spray pyrolysis assisted with glucose. Research on Chemical Intermediates, 2009, 35, 791-798.	2.7	11
43	Microwave-assisted architectural control fabrication of 3D CdS structures. Journal of Sol-Gel Science and Technology, 2012, 62, 140-148.	2.4	10
44	Bio-alcohol induced self-assembly of heterojunctioned TiO₂/WO₃ composites into a hierarchical yolkâ€“shell structure for photocatalysis. Chemical Communications, 2021, 57, 6883-6886.	4.1	8
45	Solvothermal Synthesis of TiO₂ Hollow Microsphere and Its Photocatalytic Properties. Advanced Materials Research, 2011, 356-360, 345-348.	0.3	0