

Jiaqiang Wang

List of Publications by Year in descending order

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106
papers

2,820
citations

218381

26
h-index

197535

49
g-index

106
all docs

106
docs citations

106
times ranked

3979
citing authors

#	ARTICLE	IF	CITATIONS
1	A dye-sensitized Pt@UiO-66(Zr) metal-organic framework for visible-light photocatalytic hydrogen production. <i>Chemical Communications</i> , 2014, 50, 7063-7066.	2.2	363
2	Significantly enhanced photocatalytic hydrogen evolution under visible light over CdS embedded on metal-organic frameworks. <i>Chemical Communications</i> , 2013, 49, 6761.	2.2	253
3	Removal of phosphate from polluted water by lanthanum doped vesuvianite. <i>Journal of Hazardous Materials</i> , 2009, 168, 326-330.	6.5	144
4	Low-temperature synthesis of heterogeneous crystalline TiO ₂ @halloysite nanotubes and their visible light photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8045.	5.2	99
5	Highly efficient removal of phosphate by lanthanum-doped mesoporous SiO ₂ . <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 308, 47-53.	2.3	90
6	Liquid oxidation of cyclohexane to cyclohexanol over cerium-doped MCM-41. <i>Journal of Molecular Catalysis A</i> , 2006, 246, 162-166.	4.8	81
7	MOFzyme: Intrinsic protease-like activity of Cu-MOF. <i>Scientific Reports</i> , 2014, 4, 6759.	1.6	71
8	Energy efficient materials for solar water distillation - A review. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 115, 109409.	8.2	69
9	Photocatalytic degradation of dyes over cobalt doped mesoporous SBA-15 under sunlight. <i>Dyes and Pigments</i> , 2008, 76, 76-81.	2.0	68
10	Adsorption and degradation of the cationic dyes over Co doped amorphous mesoporous titania-silica catalyst under UV and visible light irradiation. <i>Microporous and Mesoporous Materials</i> , 2008, 115, 416-425.	2.2	60
11	An Arylation Strategy to Propargylamines: Catalytic Asymmetric Friedel-Crafts-type Arylation Reactions of α -Alkynyl Imines. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15142-15146.	7.2	60
12	Catalytic hydrothermal conversion of carboxymethyl cellulose to value-added chemicals over metal-organic framework MIL-53(Al). <i>Carbohydrate Polymers</i> , 2015, 115, 146-151.	5.1	56
13	Highly efficient colorimetric detection of cancer cells utilizing Fe-MIL-101 with intrinsic peroxidase-like catalytic activity over a broad pH range. <i>RSC Advances</i> , 2015, 5, 97910-97917.	1.7	50
14	Fe-MIL-101 exhibits selective cytotoxicity and inhibition of angiogenesis in ovarian cancer cells via downregulation of MMP. <i>Scientific Reports</i> , 2016, 6, 26126.	1.6	47
15	Hydrilla derived ZnIn ₂ S ₄ photocatalyst with hexagonal-cubic phase junctions: A bio-inspired approach for H ₂ evolution. <i>Catalysis Communications</i> , 2016, 87, 1-5.	1.6	42
16	Synthesis, characterizations and photocatalytic studies of mesoporous titania prepared by using four plant skins as templates. <i>Materials Science and Engineering C</i> , 2010, 30, 839-846.	3.8	40
17	A new strategy for the sensitive electrochemical determination of nitrophenol isomers using β -cyclodextrin derivative-functionalized silicon carbide. <i>RSC Advances</i> , 2018, 8, 775-784.	1.7	38
18	Highly efficient catalytic oxidation of cyclohexane over cobalt-doped mesoporous titania with anatase crystalline structure. <i>Catalysis Communications</i> , 2006, 7, 387-390.	1.6	37

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19	Halloysite nanotube supported Ag nanoparticles heteroarchitectures as catalysts for polymerization of alkylsilanes to superhydrophobic silanol/siloxane composite microspheres. <i>Journal of Colloid and Interface Science</i> , 2014, 436, 70-76.	5.0	36
20	Microwave cavity perturbation technique for measuring the moisture content of sulphide minerals concentrates. <i>Minerals Engineering</i> , 2007, 20, 92-94.	1.8	34
21	UV and solar light degradation of dyes over mesoporous crystalline titanium dioxides prepared by using commercial synthetic dyes as templates. <i>Journal of Materials Chemistry</i> , 2009, 19, 6597.	6.7	33
22	Application of model-based control strategy to hybrid free cooling system with latent heat thermal energy storage for TBSs. <i>Energy and Buildings</i> , 2018, 167, 89-105.	3.1	33
23	Morphology- and Phase-Controlled Synthesis of Visible-Light-Activated S-doped TiO ₂ with Tunable S ₄₊ /S ₆₊ Ratio. <i>Chemical Engineering Journal</i> , 2020, 402, 125549.	6.6	31
24	PVP-capped silver nanoparticles as catalysts for polymerization of alkylsilanes to siloxane composite microspheres. <i>Journal of Materials Chemistry</i> , 2006, 16, 3606.	6.7	30
25	Microwave sensor for measuring the properties of a liquid drop. <i>Measurement Science and Technology</i> , 2007, 18, 1934-1938.	1.4	28
26	Allylic Oxidation of Cyclohexene with Molecular Oxygen Using Cobalt Resinate as Catalyst. <i>Catalysis Letters</i> , 2009, 131, 440-443.	1.4	28
27	Highly Selective Oxidation of Diphenylmethane to Benzophenone over Co/MCM-41. <i>Chemistry Letters</i> , 2005, 34, 1540-1541.	0.7	25
28	Synthesis of AgBiS ₂ microspheres by a templating method and their catalytic polymerization of alkylsilanes. <i>Chemical Communications</i> , 2007, , 4931.	2.2	25
29	Syntheses and characterizations of cobalt doped mesoporous alumina prepared using natural rubber latex as template and its catalytic oxidation of tetralin to tetralone. <i>Applied Catalysis A: General</i> , 2011, 396, 123-128.	2.2	25
30	Synthesis of Cu ₃ BiS ₃ and AgBiS ₂ crystallites with controlled morphology using hypocrellin template and their catalytic role in the polymerization of alkylsilane. <i>Journal of Materials Science</i> , 2012, 47, 4159-4166.	1.7	25
31	Diatom-templated TiO ₂ with enhanced photocatalytic activity: biomimetics of photonic crystals. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 113, 327-332.	1.1	25
32	Sensible desalting: Investigation of sensible thermal storage materials in solar stills. <i>Journal of Energy Storage</i> , 2020, 32, 101824.	3.9	25
33	Selective mediation of ovarian cancer SKOV3 cells death by pristine carbon quantum dots/Cu ₂ O composite through targeting matrix metalloproteinases, angiogenic cytokines and cytoskeleton. <i>Journal of Nanobiotechnology</i> , 2021, 19, 68.	4.2	23
34	Real Time Infrared Spectroscopic Probe of the Reactions of Fe(CO) ₃ and Fe(CO) ₄ with N ₂ in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2001, 105, 3765-3772.	1.1	22
35	Enhancing visible-light photocatalytic activity of hard-biotemplated TiO ₂ : From macrostructural morphology replication to microstructural building units design. <i>Journal of Alloys and Compounds</i> , 2022, 898, 162886.	2.8	22
36	Liquid phase oxidation of p-chlorotoluene to p-chlorobenzaldehyde over cobalt-doped mesoporous titania with a crystalline framework. <i>Journal of Molecular Catalysis A</i> , 2006, 250, 75-79.	4.8	21

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37	Enhanced photodegradation of dyes on titania-based photocatalysts by adding commercial GeO ₂ in aqueous suspension. <i>Chemical Communications</i> , 2010, 46, 5250.	2.2	21
38	Liquid-phase oxidation of cyclohexane to cyclohexanone over cobalt-doped SBA-3. <i>Catalysis Communications</i> , 2010, 11, 710-714.	1.6	21
39	Synthesis, characterizations and catalytic allylic oxidation of limonene to carvone of cobalt doped mesoporous silica templated by reed leaves. <i>Catalysis Communications</i> , 2015, 59, 233-237.	1.6	20
40	Photodegradation of Some Dyes Over Ce/FSM-16 Catalyst Under Solar Light. <i>Catalysis Letters</i> , 2007, 119, 245-251.	1.4	19
41	PVP-Capped Silver Nanoparticles as Catalyst for Oxidative Coupling of Thiols to Disulfides. <i>Chinese Journal of Catalysis</i> , 2009, 30, 856-858.	6.9	19
42	Visible-Light Degradation of Dyes and Phenols over Mesoporous Titania Prepared by Using Anthocyanin from Red Radish as Template. <i>International Journal of Photoenergy</i> , 2014, 2014, 1-10.	1.4	19
43	Large scale synthesis of Janus nanotubes and derivative nanosheets by selective etching. <i>Journal of Colloid and Interface Science</i> , 2014, 420, 1-8.	5.0	19
44	Facile and new synthesis of cobalt doped mesoporous TiO ₂ with high visible-light performance. <i>Powder Technology</i> , 2014, 266, 365-371.	2.1	19
45	Synthesis and photocatalysis of mesoporous titania templated by natural rubber latex. <i>RSC Advances</i> , 2015, 5, 21480-21486.	1.7	19
46	Biotemplated Mesoporous TiO ₂ /SiO ₂ Composite Derived from Aquatic Plant Leaves for Efficient Dye Degradation. <i>Catalysts</i> , 2017, 7, 82.	1.6	19
47	Rate constants for the reactions of NO ₃ [•] , SO ₄ ^{•-} and Cl [•] radicals with formate and acetate esters in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 2618-2621.	1.3	18
48	Biogenic C-doped titania templated by cyanobacteria for visible-light photocatalytic degradation of Rhodamine B. <i>Journal of Environmental Sciences</i> , 2014, 26, 1195-1202.	3.2	18
49	Capillary flow-driven efficient nanomaterials for seawater desalination: Review of classifications, challenges, and future perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 138, 110547.	8.2	18
50	Recombinant Cyclodextrinase from <i>Thermococcus kodakarensis</i> KOD1: Expression, Purification, and Enzymatic Characterization. <i>Archaea</i> , 2015, 2015, 1-8.	2.3	17
51	Pristine Cu-MOF Induces Mitotic Catastrophe and Alterations of Gene Expression and Cytoskeleton in Ovarian Cancer Cells. <i>ACS Applied Bio Materials</i> , 2020, 3, 4081-4094.	2.3	16
52	Visible light photodegradation of dyes over mesoporous titania prepared by using chrome azurol S as template. <i>Research on Chemical Intermediates</i> , 2009, 35, 751-760.	1.3	15
53	Selective Oxidation of Diphenylmethane Over Cobalt Doped Mesoporous Titania-Silica Catalyst with High Ti Content. <i>Catalysis Letters</i> , 2008, 121, 63-69.	1.4	14
54	Highly Efficient Red Cabbage Anthocyanin Inserted TiO ₂ Aerogel Nanocomposites for Photocatalytic Reduction of Cr(VI) under Visible Light. <i>Nanomaterials</i> , 2018, 8, 937.	1.9	14

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55	Selective liquid phase oxidation of benzoin to benzil over transition metals doped MCM-41 with air. <i>Catalysis Communications</i> , 2008, 9, 2000-2002.	1.6	13
56	Liquid phase oxidation of 2-methylnaphthalene to 2-methyl-1,4-naphthoquinone over lanthanum doped MCM-41. <i>Catalysis Communications</i> , 2014, 49, 10-14.	1.6	13
57	One-step synthesis of 2,5-dihydroxyterephthalic acid by the oxidation of p-xylene over M-MCM-41 (M = Ti, Zr, Hf, Sn). <i>Catalysis Communications</i> , 2014, 49, 10-14.	1.6	13
58	One-pot synthesis of CdS/metal-organic framework aerogel composites for efficient visible photocatalytic reduction of aqueous Cr(VI). <i>RSC Advances</i> , 2019, 9, 37594-37597.	1.7	13
59	Curcumin Doped SiO ₂ /TiO ₂ Nanocomposites for Enhanced Photocatalytic Reduction of Cr(VI) under Visible Light. <i>Catalysts</i> , 2020, 10, 942.	1.6	13
60	The equilibrium NO ₃ ⁻ +Cl ⁻ ⇌ONO ₂ +Cl ⁻ : A laser flash photolysis and pulse radiolysis study of the reactivity of NO ₃ ⁻ with chloride ion in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 3589-3593.	1.3	12
61	A new equation for the description of dielectric losses under microwave irradiation. <i>Journal Physics D: Applied Physics</i> , 2006, 39, 2255-2258.	1.3	12
62	Low-Temperature Sol-Gel Synthesis of Nitrogen-Doped Anatase/Brookite Biphasic Nanoparticles with High Surface Area and Visible-Light Performance. <i>Catalysts</i> , 2017, 7, 376.	1.6	12
63	Adsorption and controlled release of three kinds of flavors on UiO-66. <i>Food Science and Nutrition</i> , 2020, 8, 1914-1922.	1.5	12
64	An Investigation on the Exergo-Economic Performance of an Evaporator in ORC Recovering Low-Grade Waste Heat. <i>International Journal of Green Energy</i> , 2012, 9, 780-799.	2.1	11
65	Efficient Charge Carrier Separation in L-Alanine Acids Derived N-TiO ₂ Nanospheres: The Role of Oxygen Vacancies in Tetrahedral Ti ⁴⁺ Sites. <i>Nanomaterials</i> , 2019, 9, 698.	1.9	11
66	Tungstate doped TiO ₂ -SiO ₂ aerogels for preferential photocatalytic degradation of methamphetamine in seizure samples containing caffeine under simulated sunlight. <i>Catalysis Communications</i> , 2020, 145, 106121.	1.6	11
67	Enhanced stability and activity for solvent-free selective oxidation of cyclohexane over Cu ₂ O/CuO fabricated by facile alkali etching method. <i>Molecular Catalysis</i> , 2020, 495, 111134.	1.0	10
68	Liquid Phase Oxidation of Cyclohexene Over Selenite Doped MCM-41. <i>Catalysis Letters</i> , 2009, 129, 499-506.	1.4	9
69	Synthesis and Photocatalysis of Al Doped CdS Templated by Non-Surfactant Hypocrellins. <i>Procedia Environmental Sciences</i> , 2013, 18, 572-578.	1.3	9
70	Synthesis of mesoporous titania-graphite composite templated by hypocrellins for visible-light photocatalytic degradation of acetaldehyde. <i>Materials Science in Semiconductor Processing</i> , 2015, 31, 397-404.	1.9	9
71	An Arylation Strategy to Propargylamines: Catalytic Asymmetric Friedel-Crafts Type Arylation Reactions of Alkynyl Imines. <i>Angewandte Chemie</i> , 2016, 128, 15366-15370.	1.6	9
72	Facile direct synthesis of graphene-wrapped ZnO nanospheres from cyanobacterial cells. <i>Chemical Communications</i> , 2019, 55, 11410-11413.	2.2	9

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73	Liquid-Phase Catalytic Oxidation of Limonene to Carvone over ZIF-67(Co). <i>Catalysts</i> , 2019, 9, 374.	1.6	9
74	Characteristics of aramid fibre/fibrils and their properties for sheet making. <i>Nordic Pulp and Paper Research Journal</i> , 2010, 25, 488-494.	0.3	8
75	Solar Light Photocatalytic Degradation of Nitrite in Aqueous Solution Over CdS Embedded on Metal-Organic Frameworks. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	1.1	8
76	Significantly Enhanced Photocatalytic Hydrogen Evolution Under Visible Light Over LaCoO ₃ -Decorated Cubic/Hexagonal Mn _{0.25} Cd _{0.75} S. <i>Catalysis Letters</i> , 2022, 152, 659-668.	1.4	8
77	Synthesis of Cobalt Doped Porous Titania-Silica Prepared by Using the Rice Husks as Both Silicon Source and Template and its Catalytic Oxidation of 4-Methyl Pyridine. <i>Catalysis Letters</i> , 2009, 131, 538-544.	1.4	7
78	Noble Metal-Free Ceria-Zirconia Solid Solutions Templated by Tobacco Materials for Catalytic Oxidation of CO. <i>Catalysts</i> , 2016, 6, 135.	1.6	7
79	Carbon Dots/Cu ₂ O Composite with Intrinsic High Protease-Like Activity for Hydrolysis of Proteins under Physiological Conditions. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1800277.	1.2	7
80	One-step highly selective oxidation of p-xylene to 4-hydroxymethylbenzoic acid over Cu-MOF catalysts under mild conditions. <i>Molecular Catalysis</i> , 2019, 477, 110542.	1.0	7
81	Liquid phase oxidation of 2-methyl pyridine to 2-pyridinecarboxylic acid over cobalt-doped SBA-3. <i>Catalysis Communications</i> , 2008, 9, 2287-2290.	1.6	6
82	Effects of Flow Velocity on Transient Behaviour of Liquid CO ₂ Decompression during Pipeline Transportation. <i>Processes</i> , 2021, 9, 192.	1.3	6
83	Selective Oxidation of 4-Tert-butyltoluene to 4-Tert-butylbenzaldehyde Over Co/MCM-41. <i>Catalysis Letters</i> , 2007, 119, 327-331.	1.4	5
84	Transition metal doped mesoporous titania with a crystalline framework as catalysts for oxidation of p-bromotoluene to p-bromobenzaldehyde. <i>Frontiers of Chemical Engineering in China</i> , 2008, 2, 296-300.	0.6	5
85	UV/visible-light photodegradation of organic dyes over mesoporous titania prepared by using 2,4,5-triphenylimidazole as template. <i>Materials Science in Semiconductor Processing</i> , 2014, 27, 452-460.	1.9	5
86	The polymerizations of alkylsilane and bis-(β -triethoxysilylpropyl)-tetrasulfide catalyzed by copper nanoparticles and the effects of transition metal ions on the polymerizations of alkylsilane catalyzed by silver nanoparticles. <i>Materials Chemistry and Physics</i> , 2009, 118, 513-518.	2.0	4
87	Liquid phase oxidation of 4-methylanisole to 2-methoxy-5-methyl-1,4-benzoquinone over Cu/MCM-41. <i>Catalysis Communications</i> , 2009, 10, 1599-1603.	1.6	4
88	Visible light photodegradation of rhodamine B over VDF/CTFE copolymer-templated crystalline mesoporous titania. <i>Research on Chemical Intermediates</i> , 2012, 38, 2383-2391.	1.3	4
89	Low-Temperature Synthesis of Crystalline Inorganic/Metallic Nanocrystal-Halloysite Composite Nanotubes. <i>Chinese Journal of Chemistry</i> , 2014, 32, 599-606.	2.6	4
90	Study on Remediation of Cd-Contaminated Soil by Thermally Modified Attapulgite Combined with Ryegrass. <i>Soil and Sediment Contamination</i> , 2020, 29, 680-701.	1.1	4

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91	One-pot synthesis of Bi ₃ O(PO ₄) ₂ (OH) embedded on rod-like BiPO ₄ for efficient adsorption and visible-light photocatalytic reduction of aqueous Cr(VI). Journal of Alloys and Compounds, 2021, 881, 160518.	2.8	4
92	Biotemplated CdS Nano-Aggregate Networks for Highly Effective Visible-Light Photocatalytic Hydrogen Production. Nanomaterials, 2022, 12, 1268.	1.9	4
93	A Gas-Phase Study of the Kinetics of Formation of Fe(CO) ₃ DMB, Fe(CO) ₃ (DMB) ₂ , and Fe(CO) ₄ DMB: The Bond Dissociation Enthalpy for Fe(CO) ₃ (DMB) ₂ (DMB = 3,3-dimethyl-1-butene). Journal of Physical Chemistry A, 2001, 105, 5410-5419.	1.1	3
94	Polymerization of Alkylsilanes on ZIF-8 to Hierarchical Siloxane Microspheres and Microflowers. Catalysts, 2017, 7, 77.	1.6	3
95	Solvothermal-assisted Sol-Gel method Synthesized Amorphous Mesoporous Titania for Efficient Adsorption of Sb(III) in Aqueous Solution. Water, Air, and Soil Pollution, 2022, 233, 1.	1.1	3
96	Acquisition of Hydration States of Zinc Acetate Dihydrate and Aluminium Potassium Sulfate Dodecahydrate by Microwave Sensor. , 2006, , .		2
97	Detection of the Catalytic Processes by Time-Resolved Microwave Sensor. , 2006, , .		2
98	Study of the degradation of acetaldehyde by time-resolved microwave sensor (TRMS). , 2008, , .		2
99	Photocatalytic reduction of Cr(VI) within mesoporous TiO ₂ templated and confined with chlorophyll. Nano Select, 2022, 3, 140-146.	1.9	2
100	A demodulation method of FBG based on DFB laser and PID algorithm. , 2011, , .		1
101	Adsorption of Pb(II) ions from aqueous solution by surfactant-templated titania aerogels. , 0, 75, 85-93.		1
102	Absorption Properties of Materials under Microwave Irradiation. , 2006, , .		0
103	SYNTHESIS AND PHOTOCATALYTIC PERFORMANCE OF TiO ₂ WITH NOVEL SHAPE. , 2009, , .		0
104	Mesoporous Materials Catalysts for Photodegradation of Water Pollutants: From Chemical Templates to Biotemplates. , 2013, , 443-469.		0
105	Efficient Adsorptive Removal of Arsenic from Water by Titanium-Based Metal-Organic Frameworks (MIL-125). , 2017, , 493-502.		0
106	SYNTHESIS AND PHOTOCATALYTIC PERFORMANCE OF Ce/SiO ₂ /TiO ₂ WITH NOVEL MICROSPHERICAL-LIKE FAVEOLATE STRUCTURE. , 2009, , .		0