

# 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	Significantly Enhanced Photocatalytic Hydrogen Evolution Under Visible Light Over LaCoO <sub>3</sub> -Decorated Cubic/Hexagonal Mn <sub>0.25</sub> Cd <sub>0.75</sub> S. <i>Catalysis Letters</i> , 2022, 152, 659-668.	1.4	8
2	Photocatalytic reduction of Cr(VI) within mesoporous TiO <sub>2</sub> templated and confined with chlorophyll. <i>Nano Select</i> , 2022, 3, 140-146.	1.9	2
3	Enhancing visible-light photocatalytic activity of hard-biotemplated TiO <sub>2</sub> : From macrostructural morphology replication to microstructural building units design. <i>Journal of Alloys and Compounds</i> , 2022, 898, 162886.	2.8	22
4	Solvothermal-assisted Sol-Gel method Synthesized Amorphous Mesoporous Titania for Efficient Adsorption of Sb(III) in Aqueous Solution. <i>Water, Air, and Soil Pollution</i> , 2022, 233, 1.	1.1	3
5	Biotemplated CdS Nano-Aggregate Networks for Highly Effective Visible-Light Photocatalytic Hydrogen Production. <i>Nanomaterials</i> , 2022, 12, 1268.	1.9	4
6	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
7	Effects of Flow Velocity on Transient Behaviour of Liquid CO <sub>2</sub> Decompression during Pipeline Transportation. <i>Processes</i> , 2021, 9, 192.	1.3	6
8	Selective mediation of ovarian cancer SKOV3 cells death by pristine carbon quantum dots/Cu <sub>2</sub> O composite through targeting matrix metalloproteinases, angiogenic cytokines and cytoskeleton. <i>Journal of Nanobiotechnology</i> , 2021, 19, 68.	4.2	23
9	One-pot synthesis of Bi <sub>3</sub> O(PO <sub>4</sub> ) <sub>2</sub> (OH) embedded on rod-like BiPO <sub>4</sub> for efficient adsorption and visible-light photocatalytic reduction of aqueous Cr(VI). <i>Journal of Alloys and Compounds</i> , 2021, 881, 160518.	2.8	4
10	Sensible desalting: Investigation of sensible thermal storage materials in solar stills. <i>Journal of Energy Storage</i> , 2020, 32, 101824.	3.9	25
11	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
12	Enhanced stability and activity for solvent-free selective oxidation of cyclohexane over Cu <sub>2</sub> O/CuO fabricated by facile alkali etching method. <i>Molecular Catalysis</i> , 2020, 495, 111134.	1.0	10
13	Tungstate doped TiO <sub>2</sub> -SiO <sub>2</sub> 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
14	Curcumin Doped SiO <sub>2</sub> /TiO <sub>2</sub> Nanocomposites for Enhanced Photocatalytic Reduction of Cr (VI) under Visible Light. <i>Catalysts</i> , 2020, 10, 942.	1.6	13
15	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
16	Morphology- and Phase-Controlled Synthesis of Visible-Light-Activated S-doped TiO <sub>2</sub> with Tunable S <sup>4+</sup> /S <sup>6+</sup> Ratio. <i>Chemical Engineering Journal</i> , 2020, 402, 125549.	6.6	31
17	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
18	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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19	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
20	Energy efficient materials for solar water distillation - A review. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 115, 109409.	8.2	69
21	Liquid-Phase Catalytic Oxidation of Limonene to Carvone over ZIF-67(Co). <i>Catalysts</i> , 2019, 9, 374.	1.6	9
22	Efficient Charge Carrier Separation in L-Alanine Acids Derived N-TiO <sub>2</sub> Nanospheres: The Role of Oxygen Vacancies in Tetrahedral Ti <sup>4+</sup> Sites. <i>Nanomaterials</i> , 2019, 9, 698.	1.9	11
23	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
24	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
25	A new strategy for the sensitive electrochemical determination of nitrophenol isomers using $\beta$ -cyclodextrin derivative-functionalized silicon carbide. <i>RSC Advances</i> , 2018, 8, 775-784.	1.7	38
26	Highly Efficient Red Cabbage Anthocyanin Inserted TiO <sub>2</sub> Aerogel Nanocomposites for Photocatalytic Reduction of Cr(VI) under Visible Light. <i>Nanomaterials</i> , 2018, 8, 937.	1.9	14
27	Carbon Dots/Cu <sub>2</sub> 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
28	Efficient Adsorptive Removal of Arsenic from Water by Titanium-Based Metal-Organic Frameworks (MIL-125). , 2017, , 493-502.		0
29	Polymerization of Alkylsilanes on ZIF-8 to Hierarchical Siloxane Microspheres and Microflowers. <i>Catalysts</i> , 2017, 7, 77.	1.6	3
30	Biotemplated Mesoporous TiO <sub>2</sub> /SiO <sub>2</sub> Composite Derived from Aquatic Plant Leaves for Efficient Dye Degradation. <i>Catalysts</i> , 2017, 7, 82.	1.6	19
31	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
32	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
33	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
34	One-step synthesis of 2,5-dihydroxyterephthalic acid by the oxidation of p-xylene over M-MCM-41 (M = Tj ETQq0 0 0 rgBT /Overlock 10	8.6	13
35	Hydrilla derived ZnIn <sub>2</sub> S <sub>4</sub> photocatalyst with hexagonal-cubic phase junctions: A bio-inspired approach for H <sub>2</sub> evolution. <i>Catalysis Communications</i> , 2016, 87, 1-5.	1.6	42
36	An Arylation Strategy to Propargylamines: Catalytic Asymmetric Friedel-Crafts-Type Arylation Reactions of $\alpha$ -Alkynyl Imines. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15142-15146.	7.2	60

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37	An Arylation Strategy to Propargylamines: Catalytic Asymmetric Friedel-Crafts-type Arylation Reactions of $\alpha$ -Alkynyl Imines. <i>Angewandte Chemie</i> , 2016, 128, 15366-15370.	1.6	9
38	Recombinant Cyclodextrinase from <i>Thermococcus kodakarensis</i> KOD1: Expression, Purification, and Enzymatic Characterization. <i>Archaea</i> , 2015, 2015, 1-8.	2.3	17
39	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
40	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
41	Synthesis and photocatalysis of mesoporous titania templated by natural rubber latex. <i>RSC Advances</i> , 2015, 5, 21480-21486.	1.7	19
42	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
43	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
44	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
45	Low-temperature Synthesis of Crystalline Inorganic/Metallic Nanocrystal-Halloysite Composite Nanotubes. <i>Chinese Journal of Chemistry</i> , 2014, 32, 599-606.	2.6	4
46	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
47	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
48	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
49	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
50	Facile and new synthesis of cobalt doped mesoporous TiO <sub>2</sub> with high visible-light performance. <i>Powder Technology</i> , 2014, 266, 365-371.	2.1	19
51	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
52	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
53	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
54	MOFzyme: Intrinsic protease-like activity of Cu-MOF. <i>Scientific Reports</i> , 2014, 4, 6759.	1.6	71

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55	Mesoporous Materials Catalysts for Photodegradation of Water Pollutants: From Chemical Templates to Biotemplates. , 2013, , 443-469.		0
56	Diatom-templated TiO <sub>2</sub> with enhanced photocatalytic activity: biomimetics of photonic crystals. Applied Physics A: Materials Science and Processing, 2013, 113, 327-332.	1.1	25
57	Synthesis and Photocatalysis of Al Doped CdS Templated by Non-Surfactant Hypocrellins. Procedia Environmental Sciences, 2013, 18, 572-578.	1.3	9
58	Low-temperature synthesis of heterogeneous crystalline TiO <sub>2</sub> @halloysite nanotubes and their visible light photocatalytic activity. Journal of Materials Chemistry A, 2013, 1, 8045.	5.2	99
59	Significantly enhanced photocatalytic hydrogen evolution under visible light over CdS embedded on metal-organic frameworks. Chemical Communications, 2013, 49, 6761.	2.2	253
60	An Investigation on the Exergo-Economic Performance of an Evaporator in Orc Recovering Low-Grade Waste Heat. International Journal of Green Energy, 2012, 9, 780-799.	2.1	11
61	Visible light photodegradation of rhodamine B over VDF/CTFE copolymer-templated crystalline mesoporous titania. Research on Chemical Intermediates, 2012, 38, 2383-2391.	1.3	4
62	Synthesis of Cu <sub>3</sub> BiS <sub>3</sub> and AgBiS <sub>2</sub> crystallites with controlled morphology using hypocrellin template and their catalytic role in the polymerization of alkylsilane. Journal of Materials Science, 2012, 47, 4159-4166.	1.7	25
63	A demodulation method of FBG based on DFB laser and PID algorithm. , 2011, , .		1
64	Syntheses and characterizations of cobalt doped mesoporous alumina prepared using natural rubber latex as template and its catalytic oxidation of tetralin to tetralone. Applied Catalysis A: General, 2011, 396, 123-128.	2.2	25
65	Synthesis, characterizations and photocatalytic studies of mesoporous titania prepared by using four plant skins as templates. Materials Science and Engineering C, 2010, 30, 839-846.	3.8	40
66	Characteristics of aramid fibre/fibrils and their properties for sheet making. Nordic Pulp and Paper Research Journal, 2010, 25, 488-494.	0.3	8
67	Enhanced photodegradation of dyes on titania-based photocatalysts by adding commercial GeO <sub>2</sub> in aqueous suspension. Chemical Communications, 2010, 46, 5250.	2.2	21
68	Liquid-phase oxidation of cyclohexane to cyclohexanone over cobalt-doped SBA-3. Catalysis Communications, 2010, 11, 710-714.	1.6	21
69	The polymerizations of alkylsilane and bis-( <sup>3</sup> -triethoxysilylpropyl)-tetrasulfide catalyzed by copper nanoparticles and the effects of transition metal ions on the polymerizations of alkylsilane catalyzed by silver nanoparticles. Materials Chemistry and Physics, 2009, 118, 513-518.	2.0	4
70	Liquid Phase Oxidation of Cyclohexene Over Selenite Doped MCM-41. Catalysis Letters, 2009, 129, 499-506.	1.4	9
71	Allylic Oxidation of Cyclohexene with Molecular Oxygen Using Cobalt Resinate as Catalyst. Catalysis Letters, 2009, 131, 440-443.	1.4	28
72	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. Catalysis Letters, 2009, 131, 538-544.	1.4	7

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73	Visible light photodegradation of dyes over mesoporous titania prepared by using chrome azurol S as template. Research on Chemical Intermediates, 2009, 35, 751-760.	1.3	15
74	PVP-Capped Silver Nanoparticles as Catalyst for Oxidative Coupling of Thiols to Disulfides. Chinese Journal of Catalysis, 2009, 30, 856-858.	6.9	19
75	Removal of phosphate from polluted water by lanthanum doped vesuvianite. Journal of Hazardous Materials, 2009, 168, 326-330.	6.5	144
76	UV and solar light degradation of dyes over mesoporous crystalline titanium dioxides prepared by using commercial synthetic dyes as templates. Journal of Materials Chemistry, 2009, 19, 6597.	6.7	33
77	Liquid phase oxidation of 4-methylanisole to 2-methoxy-5-methyl-1,4-benzoquinone over Cu/MCM-41. Catalysis Communications, 2009, 10, 1599-1603.	1.6	4
78	SYNTHESIS AND PHOTOCATALYTIC PERFORMANCE OF TiO <sub>2</sub> WITH NOVEL SHAPE. , 2009, , .		0
79	SYNTHESIS AND PHOTOCATALYTIC PERFORMANCE OF $\text{Ce}/\text{SiO}_2/\text{TiO}_2$ WITH NOVEL MICROSPHERICAL-LIKE FAVEOLATE STRUCTURE. , 2009, , .		0
80	Selective Oxidation of Diphenylmethane Over Cobalt Doped Mesoporous Titaniaâ€“Silica Catalyst with High Ti Content. Catalysis Letters, 2008, 121, 63-69.	1.4	14
81	Transition metal doped mesoporous titania with a crystalline framework as catalysts for oxidation of p-bromotoluene to p-bromobenzaldehyde. Frontiers of Chemical Engineering in China, 2008, 2, 296-300.	0.6	5
82	Adsorption and degradation of the cationic dyes over Co doped amorphous mesoporous titaniaâ€“silica catalyst under UV and visible light irradiation. Microporous and Mesoporous Materials, 2008, 115, 416-425.	2.2	60
83	Photocatalytic degradation of dyes over cobalt doped mesoporous SBA-15 under sunlight. Dyes and Pigments, 2008, 76, 76-81.	2.0	68
84	Selective liquid phase oxidation of benzoin to benzil over transition metals doped MCM-41 with air. Catalysis Communications, 2008, 9, 2000-2002.	1.6	13
85	Liquid phase oxidation of 2-methyl pyridine to 2-pyridinecarboxylic acid over cobalt-doped SBA-3. Catalysis Communications, 2008, 9, 2287-2290.	1.6	6
86	Study of the degradation of acetaldehyde by time-resolved microwave sensor (TRMS). , 2008, , .		2
87	Microwave sensor for measuring the properties of a liquid drop. Measurement Science and Technology, 2007, 18, 1934-1938.	1.4	28
88	Synthesis of AgBIS <sub>2</sub> microspheres by a templating method and their catalytic polymerization of alkylsilanes. Chemical Communications, 2007, , 4931.	2.2	25
89	Highly efficient removal of phosphate by lanthanum-doped mesoporous SiO <sub>2</sub> . Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 308, 47-53.	2.3	90
90	Microwave cavity perturbation technique for measuring the moisture content of sulphide minerals concentrates. Minerals Engineering, 2007, 20, 92-94.	1.8	34

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91	Photodegradation of Some Dyes Over Ce/FSM-16 Catalyst Under Solar Light. <i>Catalysis Letters</i> , 2007, 119, 245-251.	1.4	19
92	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
93	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
94	Acquisition of Hydration States of Zinc Acetate Dihydrate and Aluminium Potassium Sulfate Dodecahydrate by Microwave Sensor. , 2006, , .		2
95	Detection of the Catalytic Processes by Time-Resolved Microwave Sensor. , 2006, , .		2
96	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
97	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
98	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
99	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
100	Absorption Properties of Materials under Microwave Irradiation. , 2006, , .		0
101	Highly Selective Oxidation of Diphenylmethane to Benzophenone over Co/MCM-41. <i>Chemistry Letters</i> , 2005, 34, 1540-1541.	0.7	25
102	Rate constants for the reactions of $\text{NO}_3^{\bullet}$ , $\text{SO}_4^{\bullet-}$ and $\text{Cl}^{\bullet}$ radicals with formate and acetate esters in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 2618-2621.	1.3	18
103	A Gas-Phase Study of the Kinetics of Formation of $\text{Fe}(\text{CO})_3\text{DMB}$ , $\text{Fe}(\text{CO})_3(\text{DMB})_2$ , and $\text{Fe}(\text{CO})_4\text{DMB}$ : The Bond Dissociation Enthalpy for $\text{Fe}(\text{CO})_3(\text{DMB})_2$ (DMB = 3,3-dimethyl-1-butene). <i>Journal of Physical Chemistry A</i> , 2001, 105, 5410-5419.	1.1	3
104	Real Time Infrared Spectroscopic Probe of the Reactions of $\text{Fe}(\text{CO})_3$ and $\text{Fe}(\text{CO})_4$ with $\text{N}_2$ in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2001, 105, 3765-3772.	1.1	22
105	The equilibrium $\text{NO}_3^{\bullet} + \text{Cl}^- \rightleftharpoons \text{NO}_3^- + \text{Cl}^{\bullet}$ : A laser flash photolysis and pulse radiolysis study of the reactivity of $\text{NO}_3^{\bullet}$ with chloride ion in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 3589-3593.	1.3	12
106	Adsorption of Pb(II) ions from aqueous solution by surfactant-templated titania aerogels. , 0, 75, 85-93.		1