

Zhuhong Yang

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,457
citations

331538

21
h-index

315616

38
g-index

52
all docs

52
docs citations

52
times ranked

2192
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Photocatalytic Activity in Anatase/TiO ₂ (B) Core-Shell Nanofiber. Journal of Physical Chemistry C, 2008, 112, 20539-20545.	1.5	181
2	Highly Thermal Stable and Highly Crystalline Anatase TiO ₂ for Photocatalysis. Environmental Science & Technology, 2009, 43, 5423-5428.	4.6	103
3	CuO/Cu ₂ O porous composites: shape and composition controllable fabrication inherited from metal organic frameworks and further application in CO oxidation. Journal of Materials Chemistry A, 2015, 3, 5294-5298.	5.2	100
4	Highly Efficient Liquid-Phase Photooxidation of an Azo Dye Methyl Orange over Novel Nanostructured Porous Titanate-Based Fiber of Self-Supported Radially Aligned H ₂ Ti ₈ O ₁₇ ·1.5H ₂ O Nanorods. Environmental Science & Technology, 2004, 38, 2729-2736.	4.6	75
5	Stability of Pt nanoparticles and enhanced photocatalytic performance in mesoporous Pt-(anatase/TiO ₂ (B)) nanoarchitecture. Journal of Materials Chemistry, 2009, 19, 7055.	6.7	72
6	Well-Dispersed and Size-Controlled Supported Metal Oxide Nanoparticles Derived from MOF Composites and Further Application in Catalysis. Small, 2015, 11, 3130-3134.	5.2	70
7	Study on the formation and growth of potassium titanate whiskers. Journal of Materials Science, 2002, 37, 3035-3043.	1.7	64
8	Helium Recovery by a Cu-BTC Metal-Organic-Framework Membrane. Industrial & Engineering Chemistry Research, 2012, 51, 11274-11278.	1.8	62
9	Crystal-Growth-Dominated Fabrication of Metal-Organic Frameworks with Orderly Distributed Hierarchical Porosity. Angewandte Chemie - International Edition, 2020, 59, 2457-2464.	7.2	53
10	Thermodynamic Study for Gas Absorption in Choline-2-pyrrolidine-carboxylic Acid + Polyethylene Glycol. Journal of Chemical & Engineering Data, 2016, 61, 3428-3437.	1.0	47
11	Experimental study of CO ₂ absorption in aqueous cholinium-based ionic liquids. Fluid Phase Equilibria, 2017, 445, 14-24.	1.4	45
12	Carbon heterogeneous surface modification on a mesoporous TiO ₂ -supported catalyst and its enhanced hydrodesulfurization performance. Chemical Communications, 2012, 48, 11525.	2.2	43
13	A shortcut for evaluating activities of TiO ₂ facets: water dissociative chemisorption on TiO ₂ -B (100) and (001). Physical Chemistry Chemical Physics, 2010, 12, 8721.	1.3	37
14	Synthesis, Features, and Applications of Mesoporous Titania with TiO ₂ (B). Chinese Journal of Catalysis, 2010, 31, 605-614.	6.9	36
15	A template-free method for stable CuO hollow microspheres fabricated from a metal organic framework (HKUST-1). Nanoscale, 2015, 7, 9411-9415.	2.8	33
16	Process intensification of heterogeneous photocatalysis with static mixer: Enhanced mass transfer of reactive species. Catalysis Today, 2011, 175, 322-327.	2.2	32
17	Single-crystalline and reactive facets exposed anatase TiO ₂ nanofibers with enhanced photocatalytic properties. Journal of Materials Chemistry, 2011, 21, 6718.	6.7	31
18	Directed Self-Assembly of MOF-Derived Nanoparticles toward Hierarchical Structures for Enhanced Catalytic Activity in CO Oxidation. Advanced Energy Materials, 2019, 9, 1901754.	10.2	30

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19	Carbon-protected Au nanoparticles supported on mesoporous TiO ₂ for catalytic reduction of p-nitrophenol. RSC Advances, 2014, 4, 29591-29594.	1.7	25
20	Black TiO ₂ (B)/anatase bicrystalline TiO ₂ nanofibers with enhanced photocatalytic performance. Chinese Journal of Catalysis, 2015, 36, 1943-1948.	6.9	25
21	Review on heat-utilization processes and heat-exchange equipment in biogas engineering. Journal of Renewable and Sustainable Energy, 2016, 8, .	0.8	24
22	Low-Temperature CO Oxidation of Gold Catalysts Loaded on Mesoporous TiO ₂ Whisker Derived from Potassium Dtitanate. Catalysis Letters, 2009, 127, 406-410.	1.4	23
23	Highly Crystalline Mesoporous TiO ₂ (B) Nanofibers. Journal of Physical Chemistry C, 2014, 118, 3049-3055.	1.5	21
24	CO ₂ Absorption in Mixed Aqueous Solution of MDEA and Cholinium Glycinate. Energy & Fuels, 2017, 31, 7325-7333.	2.5	20
25	Protein adsorptive behavior on mesoporous titanium dioxide determined by geometrical topography. Chemical Engineering Science, 2014, 117, 146-155.	1.9	19
26	Comparative Study in Liquid-Phase Heterogeneous Photocatalysis: Model for Photoreactor Scale-Up. Industrial & Engineering Chemistry Research, 2010, 49, 8397-8405.	1.8	18
27	CO ₂ separation using a hybrid choline-2-pyrrolidine-carboxylic acid/polyethylene glycol/water absorbent. Applied Energy, 2020, 257, 113962.	5.1	17
28	An Au-Cu Bimetal Catalyst Supported on Mesoporous TiO ₂ with Stable Catalytic Performance in CO Oxidation. Chinese Journal of Catalysis, 2012, 33, 1778-1782.	6.9	15
29	Heterogeneous interfacial engineering of Pd/TiO ₂ with controllable carbon content for improved direct synthesis efficiency of H ₂ O ₂ . Chinese Journal of Catalysis, 2020, 41, 312-321.	6.9	14
30	Complete Hydrodesulfurization of Dibenzothiophene via Direct Desulfurization Pathway over Mesoporous TiO ₂ -Supported NiMo Catalyst Incorporated with Potassium. Catalysts, 2019, 9, 448.	1.6	13
31	Preparation and Characterization of Mesoporous MoO ₃ /TiO ₂ Composite with High Surface Area by Self-Supporting and Ammonia Method. Catalysis Letters, 2012, 142, 480-485.	1.4	12
32	Preparation and Characterization of Alkaline Resistant Porous Ceramics from Potassium Titanate Whiskers. Chinese Journal of Chemical Engineering, 2007, 15, 742-747.	1.7	10
33	Oxidation of Carbon Monoxide over a Fibrous Titania-Supported Gold Catalyst. Chinese Journal of Catalysis, 2009, 30, 421-425.	6.9	10
34	Splitting behavior and structural transformation process of K ₂ Ti ₆ O ₁₃ whiskers under hydrothermal conditions. Journal of Materials Science, 2008, 43, 155-163.	1.7	8
35	Thermodynamic study on the reactivity of trace organic contaminant with the hydroxyl radicals in waters by advanced oxidation processes. Fluid Phase Equilibria, 2009, 277, 15-19.	1.4	8
36	Thermodynamic analysis of the theoretical energy consumption in the removal of organic contaminants by physical methods. Science China Chemistry, 2010, 53, 671-676.	4.2	7

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37	Photosynthesis-inspired design approach of a liquid phase heterogeneous photoreactor. <i>Green Chemistry</i> , 2011, 13, 1784.	4.6	7
38	Thermodynamic Analysis on the Mineralization of Trace Organic Contaminants with Oxidants in Advanced Oxidation Processes. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 10728-10733.	1.8	6
39	Mineralization of Trace Nitro/Chloro/Methyl/Amino-Aromatic Contaminants in Wastewaters by Advanced Oxidation Processes. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 6243-6249.	1.8	6
40	Thermal Stability of Gold Catalyst Supported on Mesoporous Titania Nanofibers. <i>Chinese Journal of Catalysis</i> , 2012, 33, 1480-1485.	6.9	5
41	Crystal-Growth-Dominated Fabrication of Metal-Organic Frameworks with Orderly Distributed Hierarchical Porosity. <i>Angewandte Chemie</i> , 2020, 132, 2478-2485.	1.6	5
42	Theoretical limit of energy consumption for removal of organic contaminants in U.S. EPA Priority Pollutant List by NRTL, UNIQUAC and Wilson models. <i>Fluid Phase Equilibria</i> , 2010, 297, 210-214.	1.4	4
43	Interfacial Engineering of NiMo/Mesoporous TiO ₂ Catalyst with Carbon for Enhanced Hydrodesulfurization Performance. <i>Catalysis Letters</i> , 2018, 148, 992-1002.	1.4	4
44	Improved CO ₂ separation performance of aqueous choline-glycine solution by partially replacing water with polyethylene glycol. <i>Fluid Phase Equilibria</i> , 2019, 495, 12-20.	1.4	4
45	Trans Influence of Boryl Ligands in CO ₂ Hydrogenation on Ruthenium Complexes: Theoretical Prediction of Highly Active Catalysts for CO ₂ Reduction. <i>Catalysts</i> , 2021, 11, 1356.	1.6	4
46	Preparation of Nickel Phosphide/Mesoporous-TiO ₂ Catalyst and Its Hydrodesulfurization Performance. <i>Chinese Journal of Catalysis</i> , 2012, 33, 508-517.	6.9	3
47	Shape-controllable synthesis of CeO ₂ particles in CO ₂ -expanded ethanol towards CO oxidation application. <i>RSC Advances</i> , 2013, 3, 5302.	1.7	3
48	Highly Crystalline TiO ₂ Whisker Modified with Pt and Its Photocatalytic Performance. <i>Chinese Journal of Catalysis</i> , 2010, 31, 1271-1276.	6.9	2
49	Theoretical limiting concentration for mineralization of trichloromethane and dichloromethane in aqueous solutions by AOPs. <i>Science China Chemistry</i> , 2011, 54, 559-564.	4.2	0
50	<i>In Situ</i> Template-Synthesis of Hollow CeO ₂ Nanobeads in scCO ₂ with Improved Catalytic Activity Towards CO Oxidation. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 2068-2071.	0.9	0