Ming Zhang

List of Publications by Year
in descending order

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57 papers	3,280 citations	126907 33 h-index	149698 56 g-index
57 all docs	57 docs citations	57 times ranked	2141 citing authors

#	Article	IF	Citations
1	Efficient aerobic oxidative desulfurization via three-dimensional ordered macroporous tungsten-titanium oxides. Petroleum Science, 2022, 19, 345-353.	4.9	6
2	Aerobic Oxidative Desulfurization by Nanoporous Tungsten Oxide with Oxygen Defects. ACS Applied Nano Materials, 2021, 4, 1085-1093.	5.0	37
3	Binary molten salts mediated defect engineering on hexagonal boron nitride catalyst with long-term stability for aerobic oxidative desulfurization. Applied Surface Science, 2021, 558, 149724.	6.1	13
4	Facile Construction of Magnetic Ionic Liquid Supported Silica for Aerobic Oxidative Desulfurization in Fuel. Catalysts, 2021, 11, 1496.	3.5	0
5	Synthesis of hierarchical porous BCN using ternary deep eutectic solvent as precursor and template for aerobic oxidative desulfurization. Microporous and Mesoporous Materials, 2020, 293, 109788.	4.4	33
6	Tailoring Electronic Properties of Porphyrin Manganese on Boron Nitride for Enhancing Aerobic Oxidative Desulfurization at Room Temperature. ACS Sustainable Chemistry and Engineering, 2020, 8, 1015-1022.	6.7	30
7	Deep eutectic solvent-induced high-entropy structures in boron nitride for boosted initiation of aerobic oxidative desulfurization of diesel. Applied Surface Science, 2020, 529, 146980.	6.1	16
8	Phosphomolybdic ionic liquid supported hydroxyapatite for heterogeneous oxidative desulfurization of fuels. Journal of Nanoparticle Research, 2020, 22, 1.	1.9	5
9	Fast heterogeneous oxidative desulfurization of dibenzothiophene from ionic liquids supported urchin-liked meso-silica. Materials Express, 2020, 10, 199-205.	0.5	2
10	Boron and Nitride Dual vacancies on Metalâ€Free Oxygen Doping Boron Nitride as Initiating Sites for Deep Aerobic Oxidative Desulfurization. ChemCatChem, 2020, 12, 1734-1742.	3.7	28
11	Tuning the electrophilicity of vanadium-substituted polyoxometalate based ionic liquids for high-efficiency aerobic oxidative desulfurization. Applied Catalysis B: Environmental, 2020, 271, 118936.	20.2	135
12	Molybdenum-containing dendritic mesoporous silica spheres for fast oxidative desulfurization in fuel. Inorganic Chemistry Frontiers, 2019, 6, 451-458.	6.0	45
13	Supported phosphotungstic-based ionic liquid as an heterogeneous catalyst used in the extractive coupled catalytic oxidative desulfurization in diesel. Research on Chemical Intermediates, 2019, 45, 4315-4334.	2.7	11
14	Magnetic mesoporous nanospheres supported phosphomolybdate-based ionic liquid for aerobic oxidative desulfurization of fuel. Journal of Colloid and Interface Science, 2019, 534, 239-247.	9.4	106
15	O₂ Activation and Oxidative Dehydrogenation of Propane on Hexagonal Boron Nitride: Mechanism Revisited. Journal of Physical Chemistry C, 2019, 123, 2256-2266.	3.1	42
16	An accurate empirical method to predict the adsorption strength for Ï€-orbital contained molecules on two dimensional materials. Journal of Molecular Graphics and Modelling, 2018, 82, 93-100.	2.4	25
17	Polyoxometalate-based silica-supported ionic liquids for heterogeneous oxidative desulfurization in fuels. Petroleum Science, 2018, 15, 882-889.	4.9	10
18	Synthesis of amphiphilic peroxophosphomolybdates for oxidative desulfurization of fuels in ionic liquids. Petroleum Science, 2018, 15, 890-897.	4.9	10

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19	H2O2 decomposition mechanism and its oxidative desulfurization activity on hexagonal boron nitride monolayer: A density functional theory study. Journal of Molecular Graphics and Modelling, 2018, 84, 166-173.	2.4	22
20	Ionic liquid-supported 3DOM silica for efficient heterogeneous oxidative desulfurization. Inorganic Chemistry Frontiers, 2018, 5, 2478-2485.	6.0	38
21	Synthesis of WO3/mesoporous ZrO2 catalyst as a high-efficiency catalyst for catalytic oxidation of dibenzothiophene in diesel. Journal of Materials Science, 2018, 53, 15927-15938.	3.7	35
22	The synthesis of Fe-containing ionic liquid and its catalytic performance for the dehydration of fructose. Chemical Papers, 2017, 71, 1541-1549.	2.2	7
23	Synthesis of mesoporous WO₃/TiO₂ catalyst and its excellent catalytic performance for the oxidation of dibenzothiophene. New Journal of Chemistry, 2017, 41, 569-578.	2.8	72
24	Tuning the Chemical Hardness of Boron Nitride Nanosheets by Doping Carbon for Enhanced Adsorption Capacity. ACS Omega, 2017, 2, 5385-5394.	3.5	86
25	Magnetic POM-based mesoporous silica for fast oxidation of aromatic sulfur compounds. Fuel, 2017, 209, 545-551.	6.4	52
26	One-pot extraction and aerobic oxidative desulfurization with highly dispersed V₂O₅/SBA-15 catalyst in ionic liquids. RSC Advances, 2017, 7, 39383-39390.	3.6	40
27	Taming Interfacial Oxygen Vacancies of Amphiphilic Tungsten Oxide for Enhanced Catalysis in Oxidative Desulfurization. ACS Sustainable Chemistry and Engineering, 2017, 5, 8930-8938.	6.7	75
28	Designing multifunctional SO₃H-based polyoxometalate catalysts for oxidative desulfurization in acid deep eutectic solvents. RSC Advances, 2017, 7, 55318-55325.	3.6	33
29	Deep oxidative desulfurization with a microporous hexagonal boron nitride confining phosphotungstic acid catalyst. Journal of Molecular Catalysis A, 2016, 423, 207-215.	4.8	51
30	Structure and catalytic oxidative desulfurization properties of SBA-15 supported silicotungstic acid ionic liquid. Journal of Porous Materials, 2016, 23, 823-831.	2.6	23
31	TiO₂ microspheres supported polyoxometalate-based ionic liquids induced catalytic oxidative deep-desulfurization. RSC Advances, 2016, 6, 42402-42412.	3.6	43
32	One-pot synthesis and characterization of tungsten-containing meso-ceria with enhanced heterogenous oxidative desulfurization in fuels. RSC Advances, 2016, 6, 68922-68928.	3.6	6
33	Fabrication and characterization of tungsten-containing mesoporous silica for heterogeneous oxidative desulfurization. Chinese Journal of Catalysis, 2016, 37, 971-978.	14.0	29
34	Boron Nitride Mesoporous Nanowires with Doped Oxygen Atoms for the Remarkable Adsorption Desulfurization Performance from Fuels. ACS Sustainable Chemistry and Engineering, 2016, 4, 4457-4464.	6.7	95
35	Copper nanoparticles advance electron mobility of graphene-like boron nitride for enhanced aerobic oxidative desulfurization. Chemical Engineering Journal, 2016, 301, 123-131.	12.7	115
36	The selectivity for sulfur removal from oils: An insight from conceptual density functional theory. AICHE Journal, 2016, 62, 2087-2100.	3.6	192

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37	A large number of low coordinated atoms in boron nitride for outstanding adsorptive desulfurization performance. Green Chemistry, 2016, 18, 3040-3047.	9.0	79
38	Synthesis of supported SiW12O40-based ionic liquid catalyst induced solvent-free oxidative deep-desulfurization of fuels. Chemical Engineering Journal, 2016, 288, 608-617.	12.7	113
39	Carbon-doped porous boron nitride: metal-free adsorbents for sulfur removal from fuels. Journal of Materials Chemistry A, 2015, 3, 12738-12747.	10.3	126
40	Facile synthesis of amphiphilic polyoxometalate-based ionic liquid supported silica induced efficient performance in oxidative desulfurization. Journal of Molecular Catalysis A, 2015, 406, 23-30.	4.8	66
41	Fabrication of dual-mesoporous silica by triblock copolymers and metal-based ionic liquid: efficient and durable catalyst for oxidative desulfurization in fuel. RSC Advances, 2015, 5, 104322-104329.	3.6	5
42	Light irradiation induced aerobic oxidative deep-desulfurization of fuel in ionic liquid. RSC Advances, 2015, 5, 99927-99934.	3.6	9
43	Few-layered graphene-like boron nitride induced a remarkable adsorption capacity for dibenzothiophene in fuels. Green Chemistry, 2015, 17, 1647-1656.	9.0	167
44	Hydrophobic mesoporous silica-supported heteropolyacid induced by ionic liquid as a high efficiency catalyst for the oxidative desulfurization of fuel. RSC Advances, 2015, 5, 16847-16855.	3.6	52
45	Fabrication of functional dual-mesoporous silicas by using peroxo-tungstate ionic liquid and their applications in oxidative desulfurization. Journal of Porous Materials, 2015, 22, 1227-1233.	2.6	5
46	A DFT Study of the Extractive Desulfurization Mechanism by [BMIM]⁺[AlCl₄]^{â^'} Ionic Liquid. Journal of Physical Chemistry B, 2015, 119, 5995-6009.	2.6	88
47	Theoretical investigation of the interaction between aromatic sulfur compounds and [BMIM]+[FeCl4]â^' ionic liquid in desulfurization: A novel charge transfer mechanism. Journal of Molecular Graphics and Modelling, 2015, 59, 40-49.	2.4	34
48	Supported ionic liquid [Bmim]FeCl₄/Am TiO₂ as an efficient catalyst for the catalytic oxidative desulfurization of fuels. RSC Advances, 2015, 5, 43528-43536.	3.6	45
49	Theoretical evidence of charge transfer interaction between SO₂and deep eutectic solvents formed by choline chloride and glycerol. Physical Chemistry Chemical Physics, 2015, 17, 28729-28742.	2.8	80
50	One-pot synthesis of ordered mesoporous silica encapsulated polyoxometalate-based ionic liquids induced efficient desulfurization of organosulfur in fuel. RSC Advances, 2015, 5, 76048-76056.	3.6	19
51	Novel heterogeneous iron-based redox ionic liquid supported on SBA-15 for deep oxidative desulfurization of fuels. Chemical Engineering Journal, 2015, 266, 213-221.	12.7	130
52	One-pot synthesis, characterization and desulfurization of functional mesoporous W-MCM-41 from POM-based ionic liquids. Chemical Engineering Journal, 2014, 243, 386-393.	12.7	104
53	Controllable synthesis of functionalized ordered mesoporous silica by metal-based ionic liquids, and their effective adsorption of dibenzothiophene. RSC Advances, 2014, 4, 40588-40594.	3.6	15
54	Preparation, characterization, and anti-Helicobacter pylori activity of Bi3+-Hericium erinaceus polysaccharide complex. Carbohydrate Polymers, 2014, 110, 231-237.	10.2	42

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55	Deep oxidative desulfurization of dibenzothiophene with POM-based hybrid materials in ionic liquids. Chemical Engineering Journal, 2013, 220, 328-336.	12.7	240
56	Catalytic oxidative desulfurization with a hexatungstate/aqueous H2O2/ionic liquid emulsion system. Green Chemistry, 2011, 13, 1210.	9.0	115
57	Polyoxometalate-based ionic liquids as catalysts for deep desulfurization of fuels. Fuel Processing Technology, 2011, 92, 1842-1848.	7.2	178