

Ming Zhang

List of Publications by Year in descending order

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57
papers

3,280
citations

126858

33
h-index

149623

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. <i>Petroleum Science</i> , 2022, 19, 345-353.	2.4	6
2	Aerobic Oxidative Desulfurization by Nanoporous Tungsten Oxide with Oxygen Defects. <i>ACS Applied Nano Materials</i> , 2021, 4, 1085-1093.	2.4	37
3	Binary molten salts mediated defect engineering on hexagonal boron nitride catalyst with long-term stability for aerobic oxidative desulfurization. <i>Applied Surface Science</i> , 2021, 558, 149724.	3.1	13
4	Facile Construction of Magnetic Ionic Liquid Supported Silica for Aerobic Oxidative Desulfurization in Fuel. <i>Catalysts</i> , 2021, 11, 1496.	1.6	0
5	Synthesis of hierarchical porous BCN using ternary deep eutectic solvent as precursor and template for aerobic oxidative desulfurization. <i>Microporous and Mesoporous Materials</i> , 2020, 293, 109788.	2.2	33
6	Tailoring Electronic Properties of Porphyrin Manganese on Boron Nitride for Enhancing Aerobic Oxidative Desulfurization at Room Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 1015-1022.	3.2	30
7	Deep eutectic solvent-induced high-entropy structures in boron nitride for boosted initiation of aerobic oxidative desulfurization of diesel. <i>Applied Surface Science</i> , 2020, 529, 146980.	3.1	16
8	Phosphomolybdc ionic liquid supported hydroxyapatite for heterogeneous oxidative desulfurization of fuels. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	0.8	5
9	Fast heterogeneous oxidative desulfurization of dibenzothiophene from ionic liquids supported urchin-like meso-silica. <i>Materials Express</i> , 2020, 10, 199-205.	0.2	2
10	Boron and Nitride Dual vacancies on Metal-Free Oxygen Doping Boron Nitride as Initiating Sites for Deep Aerobic Oxidative Desulfurization. <i>ChemCatChem</i> , 2020, 12, 1734-1742.	1.8	28
11	Tuning the electrophilicity of vanadium-substituted polyoxometalate based ionic liquids for high-efficiency aerobic oxidative desulfurization. <i>Applied Catalysis B: Environmental</i> , 2020, 271, 118936.	10.8	135
12	Molybdenum-containing dendritic mesoporous silica spheres for fast oxidative desulfurization in fuel. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 451-458.	3.0	45
13	Supported phosphotungstic-based ionic liquid as an heterogeneous catalyst used in the extractive coupled catalytic oxidative desulfurization in diesel. <i>Research on Chemical Intermediates</i> , 2019, 45, 4315-4334.	1.3	11
14	Magnetic mesoporous nanospheres supported phosphomolybdate-based ionic liquid for aerobic oxidative desulfurization of fuel. <i>Journal of Colloid and Interface Science</i> , 2019, 534, 239-247.	5.0	106
15	O ₂ Activation and Oxidative Dehydrogenation of Propane on Hexagonal Boron Nitride: Mechanism Revisited. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2256-2266.	1.5	42
16	An accurate empirical method to predict the adsorption strength for π -orbital contained molecules on two dimensional materials. <i>Journal of Molecular Graphics and Modelling</i> , 2018, 82, 93-100.	1.3	25
17	Polyoxometalate-based silica-supported ionic liquids for heterogeneous oxidative desulfurization in fuels. <i>Petroleum Science</i> , 2018, 15, 882-889.	2.4	10
18	Synthesis of amphiphilic peroxophosphomolybdates for oxidative desulfurization of fuels in ionic liquids. <i>Petroleum Science</i> , 2018, 15, 890-897.	2.4	10

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19	H ₂ O ₂ decomposition mechanism and its oxidative desulfurization activity on hexagonal boron nitride monolayer: A density functional theory study. <i>Journal of Molecular Graphics and Modelling</i> , 2018, 84, 166-173.	1.3	22
20	Ionic liquid-supported 3DOM silica for efficient heterogeneous oxidative desulfurization. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 2478-2485.	3.0	38
21	Synthesis of WO ₃ /mesoporous ZrO ₂ catalyst as a high-efficiency catalyst for catalytic oxidation of dibenzothiophene in diesel. <i>Journal of Materials Science</i> , 2018, 53, 15927-15938.	1.7	35
22	The synthesis of Fe-containing ionic liquid and its catalytic performance for the dehydration of fructose. <i>Chemical Papers</i> , 2017, 71, 1541-1549.	1.0	7
23	Synthesis of mesoporous WO ₃ /TiO ₂ catalyst and its excellent catalytic performance for the oxidation of dibenzothiophene. <i>New Journal of Chemistry</i> , 2017, 41, 569-578.	1.4	72
24	Tuning the Chemical Hardness of Boron Nitride Nanosheets by Doping Carbon for Enhanced Adsorption Capacity. <i>ACS Omega</i> , 2017, 2, 5385-5394.	1.6	86
25	Magnetic POM-based mesoporous silica for fast oxidation of aromatic sulfur compounds. <i>Fuel</i> , 2017, 209, 545-551.	3.4	52
26	One-pot extraction and aerobic oxidative desulfurization with highly dispersed V ₂ O ₅ /SBA-15 catalyst in ionic liquids. <i>RSC Advances</i> , 2017, 7, 39383-39390.	1.7	40
27	Taming Interfacial Oxygen Vacancies of Amphiphilic Tungsten Oxide for Enhanced Catalysis in Oxidative Desulfurization. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8930-8938.	3.2	75
28	Designing multifunctional SO ₃ H-based polyoxometalate catalysts for oxidative desulfurization in acid deep eutectic solvents. <i>RSC Advances</i> , 2017, 7, 55318-55325.	1.7	33
29	Deep oxidative desulfurization with a microporous hexagonal boron nitride confining phosphotungstic acid catalyst. <i>Journal of Molecular Catalysis A</i> , 2016, 423, 207-215.	4.8	51
30	Structure and catalytic oxidative desulfurization properties of SBA-15 supported silicotungstic acid ionic liquid. <i>Journal of Porous Materials</i> , 2016, 23, 823-831.	1.3	23
31	TiO ₂ microspheres supported polyoxometalate-based ionic liquids induced catalytic oxidative deep-desulfurization. <i>RSC Advances</i> , 2016, 6, 42402-42412.	1.7	43
32	One-pot synthesis and characterization of tungsten-containing meso-ceria with enhanced heterogeneous oxidative desulfurization in fuels. <i>RSC Advances</i> , 2016, 6, 68922-68928.	1.7	6
33	Fabrication and characterization of tungsten-containing mesoporous silica for heterogeneous oxidative desulfurization. <i>Chinese Journal of Catalysis</i> , 2016, 37, 971-978.	6.9	29
34	Boron Nitride Mesoporous Nanowires with Doped Oxygen Atoms for the Remarkable Adsorption Desulfurization Performance from Fuels. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 4457-4464.	3.2	95
35	Copper nanoparticles advance electron mobility of graphene-like boron nitride for enhanced aerobic oxidative desulfurization. <i>Chemical Engineering Journal</i> , 2016, 301, 123-131.	6.6	115
36	The selectivity for sulfur removal from oils: An insight from conceptual density functional theory. <i>AIChE Journal</i> , 2016, 62, 2087-2100.	1.8	192

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37	A large number of low coordinated atoms in boron nitride for outstanding adsorptive desulfurization performance. <i>Green Chemistry</i> , 2016, 18, 3040-3047.	4.6	79
38	Synthesis of supported SiW12O40-based ionic liquid catalyst induced solvent-free oxidative deep-desulfurization of fuels. <i>Chemical Engineering Journal</i> , 2016, 288, 608-617.	6.6	113
39	Carbon-doped porous boron nitride: metal-free adsorbents for sulfur removal from fuels. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12738-12747.	5.2	126
40	Facile synthesis of amphiphilic polyoxometalate-based ionic liquid supported silica induced efficient performance in oxidative desulfurization. <i>Journal of Molecular Catalysis A</i> , 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. <i>RSC Advances</i> , 2015, 5, 104322-104329.	1.7	5
42	Light irradiation induced aerobic oxidative deep-desulfurization of fuel in ionic liquid. <i>RSC Advances</i> , 2015, 5, 99927-99934.	1.7	9
43	Few-layered graphene-like boron nitride induced a remarkable adsorption capacity for dibenzothiophene in fuels. <i>Green Chemistry</i> , 2015, 17, 1647-1656.	4.6	167
44	Hydrophobic mesoporous silica-supported heteropolyacid induced by ionic liquid as a high efficiency catalyst for the oxidative desulfurization of fuel. <i>RSC Advances</i> , 2015, 5, 16847-16855.	1.7	52
45	Fabrication of functional dual-mesoporous silicas by using peroxo-tungstate ionic liquid and their applications in oxidative desulfurization. <i>Journal of Porous Materials</i> , 2015, 22, 1227-1233.	1.3	5
46	A DFT Study of the Extractive Desulfurization Mechanism by [BMIM] ⁺ [AlCl ₄] ⁻ Ionic Liquid. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5995-6009.	1.2	88
47	Theoretical investigation of the interaction between aromatic sulfur compounds and [BMIM] ⁺ [FeCl ₄] ⁻ ionic liquid in desulfurization: A novel charge transfer mechanism. <i>Journal of Molecular Graphics and Modelling</i> , 2015, 59, 40-49.	1.3	34
48	Supported ionic liquid [Bmim]FeCl ₄ /Am TiO ₂ as an efficient catalyst for the catalytic oxidative desulfurization of fuels. <i>RSC Advances</i> , 2015, 5, 43528-43536.	1.7	45
49	Theoretical evidence of charge transfer interaction between SO ₂ and deep eutectic solvents formed by choline chloride and glycerol. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28729-28742.	1.3	80
50	One-pot synthesis of ordered mesoporous silica encapsulated polyoxometalate-based ionic liquids induced efficient desulfurization of organosulfur in fuel. <i>RSC Advances</i> , 2015, 5, 76048-76056.	1.7	19
51	Novel heterogeneous iron-based redox ionic liquid supported on SBA-15 for deep oxidative desulfurization of fuels. <i>Chemical Engineering Journal</i> , 2015, 266, 213-221.	6.6	130
52	One-pot synthesis, characterization and desulfurization of functional mesoporous W-MCM-41 from POM-based ionic liquids. <i>Chemical Engineering Journal</i> , 2014, 243, 386-393.	6.6	104
53	Controllable synthesis of functionalized ordered mesoporous silica by metal-based ionic liquids, and their effective adsorption of dibenzothiophene. <i>RSC Advances</i> , 2014, 4, 40588-40594.	1.7	15
54	Preparation, characterization, and anti- <i>Helicobacter pylori</i> activity of Bi ³⁺ - <i>Hericium erinaceus</i> polysaccharide complex. <i>Carbohydrate Polymers</i> , 2014, 110, 231-237.	5.1	42

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55	Deep oxidative desulfurization of dibenzothiophene with POM-based hybrid materials in ionic liquids. <i>Chemical Engineering Journal</i> , 2013, 220, 328-336.	6.6	240
56	Catalytic oxidative desulfurization with a hexatungstate/aqueous H ₂ O ₂ /ionic liquid emulsion system. <i>Green Chemistry</i> , 2011, 13, 1210.	4.6	115
57	Polyoxometalate-based ionic liquids as catalysts for deep desulfurization of fuels. <i>Fuel Processing Technology</i> , 2011, 92, 1842-1848.	3.7	178