

Xilong Wang

List of Publications by Year in descending order

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43
papers

1,108
citations

361413

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h-index

434195

31
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43
all docs

43
docs citations

43
times ranked

866
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of NiMo catalysts supported on mesoporous Al ₂ O ₃ with different crystal forms and superior catalytic performance for the hydrodesulfurization of dibenzothiophene and 4,6-dimethyldibenzothiophene. <i>Journal of Catalysis</i> , 2016, 344, 680-691.	6.2	111
2	Al-modified dendritic mesoporous silica nanospheres-supported NiMo catalysts for the hydrodesulfurization of dibenzothiophene: Efficient accessibility of active sites and suitable metal-support interaction. <i>Journal of Catalysis</i> , 2017, 356, 269-282.	6.2	81
3	Self-Assembly of Hierarchically Porous ZSM-5/SBA-16 with Different Morphologies and Its High Isomerization Performance for Hydrodesulfurization of Dibenzothiophene and 4,6-Dimethyldibenzothiophene. <i>ACS Catalysis</i> , 2018, 8, 1891-1902.	11.2	61
4	Influence of sulfur vacancy on thiophene hydrodesulfurization mechanism at different MoS ₂ edges: A DFT study. <i>Chemical Engineering Science</i> , 2017, 164, 292-306.	3.8	59
5	Self-assembly of monodispersed hierarchically porous Beta-SBA-15 with different morphologies and its hydro-upgrading performances for FCC gasoline. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16501-16512.	10.3	57
6	DFT insights into the formation of sulfur vacancies over corner/edge site of Co/Ni-promoted MoS ₂ and WS ₂ under the hydrodesulfurization conditions. <i>Applied Catalysis B: Environmental</i> , 2019, 257, 117937.	20.2	44
7	Effect of synthesis temperature on structure-activity-relationship over NiMo/Al ₂ O ₃ catalysts for the hydrodesulfurization of DBT and 4,6-DMDBT. <i>Fuel Processing Technology</i> , 2017, 161, 52-61.	7.2	42
8	Dendritic micro-mesoporous composites with center-radial pores assembled by TS-1 nanocrystals to enhance hydrodesulfurization activity of dibenzothiophene and 4,6-dimethyldibenzothiophene. <i>Journal of Catalysis</i> , 2020, 384, 136-146.	6.2	40
9	Structural Screening and Design of Dendritic Micro-mesoporous Composites for Efficient Hydrodesulfurization of Dibenzothiophene and 4,6-Dimethyldibenzothiophene. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40404-40414.	8.0	32
10	Synthesis of a novel micro/mesoporous composite material Beta-FDU-12 and its hydro-upgrading performance for FCC gasoline. <i>RSC Advances</i> , 2016, 6, 1018-1026.	3.6	29
11	Platinum Nanoparticles Supported on TiO ₂ Photonic Crystals as Highly Active Photocatalyst for the Reduction of CO ₂ in the Presence of Water. <i>Energy Technology</i> , 2017, 5, 877-883.	3.8	29
12	Ultrafine PtRu nanoparticles confined in hierarchically porous carbon derived from micro-mesoporous zeolite for enhanced nitroarenes reduction performance. <i>Journal of Catalysis</i> , 2019, 370, 385-403.	6.2	28
13	DFT insights into the direct desulfurization pathways of DBT and 4,6-DMDBT catalyzed by Co-promoted and Ni-promoted MoS ₂ corner sites. <i>Chemical Engineering Science</i> , 2019, 206, 249-260.	3.8	28
14	Hydro-upgrading Performance of Fluid Catalytic Cracking Diesel over Different Crystal Forms of Alumina-Supported CoMo Catalysts. <i>Energy & Fuels</i> , 2017, 31, 7456-7463.	5.1	26
15	Synthesis of NiMo catalysts supported on mesoporous silica FDU-12 with different morphologies and their catalytic performance of DBT HDS. <i>Catalysis Today</i> , 2017, 291, 146-152.	4.4	25
16	Hydrodesulfurization of dibenzothiophene and 4,6-dimethyldibenzothiophene over NiMo supported on yolk-shell silica catalysts with adjustable shell thickness and yolk size. <i>Journal of Catalysis</i> , 2022, 410, 128-143.	6.2	25
17	Hierarchically Porous ZSM-5/SBA-15 Zeolite: Tuning Pore Structure and Acidity for Enhanced Hydro-Upgrading of FCC Gasoline. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 14031-14043.	3.7	24
18	Effect of promoters on the HDS activity of alumina-supported Co-Mo sulfide catalysts. <i>RSC Advances</i> , 2015, 5, 99706-99711.	3.6	23

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19	Synthesis of mesoporous silica material with ultra-large pore sizes and the HDS performance of dibenzothiophene. <i>Microporous and Mesoporous Materials</i> , 2016, 226, 510-521.	4.4	23
20	Restrictive Diffusion in the Hydrodesulfurization over Ni-MoS ₂ /Al ₂ O ₃ with Different Crystal Forms. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 10018-10027.	3.7	21
21	Insights into the intrinsic kinetics for efficient hydrodesulfurization of 4,6-dimethyldibenzothiophene over mesoporous CoMoS ₂ /ZSM-5. <i>Journal of Catalysis</i> , 2022, 408, 279-293.	6.2	20
22	Controllable Synthesis of Spherical Al-SBA-16 Mesoporous Materials with Different Crystal Sizes and Its High Isomerization Performance for Hydrodesulfurization of Dibenzothiophene and 4,6-Dimethyldibenzothiophene. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 2498-2507.	3.7	19
23	Optimal Synthesis of Hierarchical Porous Composite ZSM-5/SBA-16 for Ultradeep Hydrodesulfurization of Dibenzothiophene and 4,6-Dimethyldibenzothiophene. Part 2: The Influence of Aging Temperature on the Properties of NiMo Catalysts. <i>Energy & Fuels</i> , 2018, 32, 7800-7809.	5.1	18
24	PdCu supported on dendritic mesoporous CexZr1-xO ₂ as superior catalysts to boost CO ₂ hydrogenation to methanol. <i>Journal of Colloid and Interface Science</i> , 2022, 611, 739-751.	9.4	18
25	Influence of Support Acidity on the HDS Performance over γ -SBA-16 and Al-SBA-16 Substrates: A Combined Experimental and Theoretical Study. <i>Energy & Fuels</i> , 2019, 33, 1479-1488.	5.1	17
26	A Brief Review on Solvent-Free Synthesis of Zeolites. <i>Materials</i> , 2021, 14, 788.	2.9	17
27	Optimal Synthesis of Hierarchical Porous Composite ZSM-5/SBA-16 for Ultradeep Hydrodesulfurization of Dibenzothiophene and 4,6-Dimethyldibenzothiophene. Part 1: The Influence of Inorganic Salt on the Properties of NiMo Catalysts. <i>Energy & Fuels</i> , 2018, 32, 6204-6212.	5.1	16
28	Oriented Hydrocracking of Naphthalene into High-Value Light Aromatics over Difunctional Catalysts: Effect of Hydrogen Spillover and Utilization of Hydroreaction Characteristics for Different Active Metals. <i>ACS Catalysis</i> , 2020, 10, 12342-12353.	11.2	16
29	Modified Dendritic Mesoporous Silica Nanospheres Composites: Superior Pore Structure and Acidity for Enhanced Hydrodesulfurization Performance of Dibenzothiophene. <i>Energy & Fuels</i> , 2020, 34, 8759-8768.	5.1	16
30	The Synthesis of Al-SBA-16 Materials with a Novel Method and Their Catalytic Application on Hydrogenation for FCC Diesel. <i>Energy & Fuels</i> , 2017, 31, 805-814.	5.1	15
31	Pt-confinement catalyst with dendritic hierarchical pores on excellent sulfur-resistance for hydrodesulfurization of dibenzothiophene and 4,6-dimethyldibenzothiophene. <i>Green Energy and Environment</i> , 2022, 7, 324-333.	8.7	15
32	Synthesis of Al-Containing Spherical Mesocellular Silica Foams with Different Pore Sizes and Their Applications as Catalyst Supports for Hydrodesulfurization of Dibenzothiophene. <i>ChemCatChem</i> , 2015, 7, 1948-1960.	3.7	14
33	Facile synthesis of few-layer MoS ₂ nanosheets with different morphologies supported on Al-TUD-1 for efficient hydrodesulfurization of dibenzothiophene and 4,6-dimethyldibenzothiophene. <i>Chemical Engineering Journal</i> , 2021, 425, 131416.	12.7	14
34	Hydrodesulfurization Properties of Dibenzothiophene over NiMo Catalysts Supported on Cubic γ -Fm ₃ m Mesoporous Structure and High-Framework Aluminum-Modified AlKIT-5. <i>Energy & Fuels</i> , 2018, 32, 9793-9803.	5.1	12
35	Hierarchically Porous γ /SBA-16 Composites: Tuning Pore Structure and Acidity for Enhanced Isomerization Performance in Hydrodesulfurization of Dibenzothiophene and 4,6-Dimethyldibenzothiophene. <i>Energy & Fuels</i> , 2020, 34, 769-777.	5.1	12
36	Screening and design of active metals on dendritic mesoporous Ce _{0.3} Zr _{0.7} O ₂ for efficient CO ₂ hydrogenation to methanol. <i>Fuel</i> , 2022, 317, 123471.	6.4	12

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37	Synthesis of HKUST-1 and zeolite beta composites for deep desulfurization of model gasoline. RSC Advances, 2018, 8, 13750-13754.	3.6	10
38	Lanthanum/Gallium-Modified Zn/ZSM-5 Zeolite for Efficient Isomerization/Aromatization of FCC Light Gasoline. Industrial & Engineering Chemistry Research, 2022, 61, 9667-9677.	3.7	9
39	Study on Hydrodesulfurization of L/W Coexistence Zeolite Modified by Magnesium for FCC Gasoline. Energy & Fuels, 2018, 32, 777-786.	5.1	8
40	Hierarchically Structured Porous Silica Spheres by Microemulsion/Vesicle Templating for Hydrodesulfurization of Fluid Catalytic Cracking Diesel. Particle and Particle Systems Characterization, 2016, 33, 190-203.	2.3	7
41	High-Performance Bimetal NiMo Catalysts Prepared over Novel Cubic Mesoporous Silica with a Cost-Efficient Method for the Removal of Dibenzothiophene. Industrial & Engineering Chemistry Research, 2019, 58, 9300-9313.	3.7	6
42	Hierarchically Ordered Micro-/Mesoporous Material Assembled by a Zeolite W Nanocrystal and Its Hydro-Upgrading Performance for FCC Gasoline. Industrial & Engineering Chemistry Research, 2020, 59, 1101-1112.	3.7	5
43	Ultrasound-assisted synthesis of ordered mesoporous silica FDU-12 with a hollow structure. New Journal of Chemistry, 2018, 42, 2381-2384.	2.8	4