

Wen-Zhi Jia

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

660
citations

567281

15
h-index

552781

26
g-index

30
all docs

30
docs citations

30
times ranked

631
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical liquid deposition with polysiloxane of ZSM-5 and its effect on acidity and catalytic properties. <i>Microporous and Mesoporous Materials</i> , 2007, 101, 169-175.	4.4	68
2	Seed-induced synthesis of hierarchical ZSM-5 nanosheets in the presence of hexadecyl trimethyl ammonium bromide. <i>RSC Advances</i> , 2015, 5, 9237-9240.	3.6	63
3	Highly-efficient conversion of methanol to p-xylene over shape-selective Mg ²⁺ -Zn ²⁺ -Si-HZSM-5 catalyst with fine modification of pore-opening and acidic properties. <i>Catalysis Science and Technology</i> , 2016, 6, 4802-4813.	4.1	57
4	The deactivation mechanism of two typical shape-selective HZSM-5 catalysts for alkylation of toluene with methanol. <i>Catalysis Science and Technology</i> , 2014, 4, 2639.	4.1	47
5	Influence of Lewis Acidity on Catalytic Activity of the Porous Alumina for Dehydrofluorination of 1,1,1,2-Tetrafluoroethane to Trifluoroethylene. <i>Catalysis Letters</i> , 2015, 145, 654-661.	2.6	42
6	CO ₂ atmosphere-enhanced methanol aromatization over the NiO-HZSM-5 catalyst. <i>RSC Advances</i> , 2014, 4, 44377-44385.	3.6	41
7	Catalytic dehydrofluorination of 1,1,1,2-tetrafluoroethane to synthesize trifluoroethylene over a modified NiO/Al ₂ O ₃ catalyst. <i>Catalysis Science and Technology</i> , 2015, 5, 3103-3107.	4.1	34
8	Catalytic dehydrofluorination of 1,1,1,3,3-pentafluoropropane to 1,3,3,3-tetrafluoropropene over fluorinated NiO/Cr ₂ O ₃ catalysts. <i>Applied Surface Science</i> , 2018, 433, 904-913.	6.1	34
9	Effect of external surface of HZSM-5 zeolite on product distribution in the conversion of methanol to hydrocarbons. <i>Journal of Energy Chemistry</i> , 2014, 23, 771-780.	12.9	27
10	New insight into the alkylation-efficiency of methanol with toluene over ZSM-5: Microporous diffusibility significantly affects reacting-pathways. <i>Microporous and Mesoporous Materials</i> , 2019, 282, 252-259.	4.4	26
11	Dehydrofluorination of 1, 1, 1, 3, 3-pentafluoropropane over C-AlF ₃ composite catalysts: Improved catalyst stability by the presence of pre-deposited carbon. <i>Applied Catalysis A: General</i> , 2019, 576, 39-46.	4.3	25
12	A novel method for the synthesis of well-crystallized γ -AlF ₃ with high surface area derived from β -Al ₂ O ₃ . <i>Journal of Materials Chemistry</i> , 2011, 21, 8987.	6.7	23
13	Influence of Metallic Modification on Ethylbenzene Dealkylation over ZSM-5 Zeolites. <i>Chinese Journal of Chemistry</i> , 2015, 33, 247-252.	4.9	19
14	Catalytic Properties of Hierarchical Mordenite Nanosheets Synthesized by Self-Assembly Between Subnanocrystals and Organic Templates. <i>Catalysis Letters</i> , 2016, 146, 249-254.	2.6	19
15	Effect of calcination temperature and fluorination treatment on NiF ₂ -AlF ₃ catalysts for dehydrofluorination of 1, 1, 1, 2-tetrafluoroethane to synthesize trifluoroethylene. <i>Applied Catalysis A: General</i> , 2019, 571, 150-157.	4.3	18
16	Fluorination of dichlorodifluoromethane to synthesize tetrafluoromethane over Cr ₂ O ₃ -AlF ₃ catalyst. <i>Journal of Industrial and Engineering Chemistry</i> , 2011, 17, 615-620.	5.8	15
17	WO ₃ -ZrO ₂ -TiO ₂ Composite Oxide Supported Pt as an Efficient Catalyst for Continuous Hydrogenolysis of Glycerol. <i>Catalysis Letters</i> , 2021, 151, 124-137.	2.6	12
18	Novel fluorination of polystyrene sulfonic acid resin by CF ₃ SO ₃ H for high stability and strong acidity. <i>Catalysis Communications</i> , 2015, 70, 58-61.	3.3	11

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19	Hydrogenolysis of Glycerol on the ZrO ₂ -TiO ₂ Supported Pt-WO _x Catalyst. <i>Catalysts</i> , 2020, 10, 312.	3.5	11
20	Transalkylation Properties of Hierarchical MFI and MOR Zeolites: Direct Synthesis over Modulating the Zeolite Grow Kinetics with Controlled Morphology. <i>Catalysis Letters</i> , 2018, 148, 1396-1406.	2.6	9
21	Controlling reactive pathways in complex one-pot reactions using a novel shape-selective catalyst with multifunctional active-sites. <i>Chemical Communications</i> , 2018, 54, 11689-11692.	4.1	9
22	Physical Aging as the Driving Force for Brittle→Ductile Transition of Polylactic Acid. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 1900475.	2.2	9
23	New Process for 2,6-Dimethylnaphthalene Synthesis by Using C ₁₀ Aromatics as Solvent and Transmethylation-Agentia: High-Efficiency and Peculiar Subarea-Catalysis over Shape-Selective ZSM-5/Beta Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 12593-12601.	3.7	8
24	A Novel Ni/NiF ₂ /AlF ₃ Catalyst with Mild Strength Lewis Acid Sites for Dehydrofluorination of 1, 1, 1, 2-Tetrafluoroethane to Synthesize Trifluoroethylene. <i>ChemistrySelect</i> , 2019, 4, 4506-4511.	1.5	8
25	High-efficiency hydrocracking of phenanthrene into BTX aromatics over a Ni-modified lamellar-crystal HY zeolite. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 8624-8630.	2.8	8
26	Effect of Fe promotion on the performance of V ₂ O ₅ /MgF ₂ catalysts for gas-phase dehydrofluorination of 1,1,1,3,3-pentafluoropropane. <i>Applied Surface Science</i> , 2019, 490, 365-371.	6.1	6
27	Insight into the Alkylation Efficiency of Methanol with Toluene over HZSM-5 Zeolite II: Acidic Properties also Significantly Affects Reacting Pathways. <i>ChemistrySelect</i> , 2020, 5, 6800-6808.	1.5	4
28	Catalytic Pyrolysis of 1,1-Dichloro-1,1-Difluoroethane to Synthesize Vinylidene Fluoride over the Potassium-Promoted Carbon Catalysts. <i>ChemistrySelect</i> , 2020, 5, 5788-5793.	1.5	3
29	Synergistic roles of surface acidity and Ni species in NiF ₂ /AlF ₃ catalysts for pyrolysis of 1,1,1,2-tetrafluoroethane. <i>Molecular Catalysis</i> , 2022, 527, 112433.	2.0	3
30	Selective Dehydrofluorination of 1,1,1,3,3-Pentafluoropropane to Synthesize Tetrafluoropropylene and Trifluoropropyne over the ZnO/Cr ₂ O ₃ Catalysts. <i>ChemistrySelect</i> , 2020, 5, 13027-13032.	1.5	1