Weibin Fan

List of Publications by Year
in descending order

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144	6,661	57758	74163
papers	citations	44 h-index	75 g-index

144	144	144	6810
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nitrogen-containing porous carbons: synthesis and application. Journal of Materials Chemistry A, 2013, 1, 999-1013.	10.3	602
2	Influence of preparation method on the performance of Zn-containing HZSM-5 catalysts in methanol-to-aromatics. Microporous and Mesoporous Materials, 2014, 197, 252-261.	4.4	338
3	Conversion of Methanol to Olefins over H-ZSM-5 Zeolite: Reaction Pathway Is Related to the Framework Aluminum Siting. ACS Catalysis, 2016, 6, 7311-7325.	11.2	285
4	Strategies to control zeolite particle morphology. Chemical Society Reviews, 2019, 48, 885-907.	38.1	162
5	A route to form initial hydrocarbon pool species in methanol conversion to olefins over zeolites. Journal of Catalysis, 2014, 317, 277-283.	6.2	151
6	Relation of Catalytic Performance to the Aluminum Siting of Acidic Zeolites in the Conversion of Methanol to Olefins, Viewed via a Comparison between ZSM-5 and ZSM-11. ACS Catalysis, 2018, 8, 5485-5505.	11.2	148
7	Integrated Conversion of Hemicellulose and Furfural into Î³-Valerolactone over Au/ZrO₂ Catalyst Combined with ZSM-5. ACS Catalysis, 2016, 6, 2035-2042.	11.2	143
8	Hierarchical porous polyacrylonitrile-based activated carbon fibers for CO2 capture. Journal of Materials Chemistry, 2011, 21, 14036.	6.7	140
9	Influence of crystal size on the catalytic performance of H-ZSM-5 and Zn/H-ZSM-5 in the conversion of methanol to aromatics. Fuel Processing Technology, 2017, 157, 99-107.	7.2	138
10	A Highly Stable Copperâ€Based Catalyst for Clarifying the Catalytic Roles of Cu⁰ and Cu⁺ Species in Methanol Dehydrogenation. Angewandte Chemie - International Edition, 2018, 57, 1836-1840.	13.8	125
11	A highly efficient and robust Cu/SiO₂ catalyst prepared by the ammonia evaporation hydrothermal method for glycerol hydrogenolysis to 1,2-propanediol. Catalysis Science and Technology, 2015, 5, 1169-1180.	4.1	124
12	Graphene-supported Auâ€“Pd bimetallic nanoparticles with excellent catalytic performance in selective oxidation of methanol to methyl formate. Chemical Communications, 2013, 49, 8250.	4.1	120
13	Hollow and porous NiCo2O4 nanospheres for enhanced methanol oxidation reaction and oxygen reduction reaction by oxygen vacancies engineering. Applied Catalysis B: Environmental, 2021, 291, 120065.	20.2	114
14	Regulation of Framework Aluminum Siting and Acid Distribution in H-MCM-22 by Boron Incorporation and Its Effect on the Catalytic Performance in Methanol to Hydrocarbons. ACS Catalysis, 2016, 6, 2299-2313.	11.2	113
15	Selective oxidation of alcohols to aldehydes/ketones over copper oxide-supported gold catalysts. Journal of Catalysis, 2013, 299, 10-19.	6.2	107
16	Polymethylbenzene or Alkene Cycle? Theoretical Study on Their Contribution to the Process of Methanol to Olefins over H-ZSM-5 Zeolite. Journal of Physical Chemistry C, 2015, 119, 28482-28498.	3.1	105
17	High Si/Al ratio HZSM-5 zeolite: an efficient catalyst for the synthesis of polyoxymethylene dimethyl ethers from dimethoxymethane and trioxymethylene. Green Chemistry, 2015, 17, 2353-2357.	9.0	100
18	Graphene-based catalysis for biomass conversion. Catalysis Science and Technology, 2015, 5, 3845-3858.	4.1	100

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19	Facile one-pot synthesis of bimodal mesoporous carbon nitride and its function as a lipase immobilization support. Journal of Materials Chemistry, 2011, 21, 3890.	6.7	98
20	Ordered mesoporous Nbâ€“W oxides for the conversion of glucose to fructose, mannose and 5-hydroxymethylfurfural. Applied Catalysis B: Environmental, 2017, 200, 611-619.	20.2	93
21	Alcoholysis: A Promising Technology for Conversion of Lignocellulose and Platform Chemicals. ChemSusChem, 2017, 10, 2547-2559.	6.8	90
22	Graphene Oxide: An Efficient Acid Catalyst for Alcoholysis and Esterification Reactions. ChemCatChem, 2014, 6, 3080-3083.	3.7	87
23	Superior carbon-based CO2 adsorbents prepared from poplar anthers. Carbon, 2014, 69, 255-263.	10.3	85
24	Influence of Zn species in HZSM-5 on ethylene aromatization. Chinese Journal of Catalysis, 2015, 36, 880-888.	14.0	83
25	The acidic nature of â€œNMR-invisibleâ€•tri-coordinated framework aluminum species in zeolites. Chemical Science, 2019, 10, 10159-10169.	7.4	78
26	Direct Conversion of Syngas into Light Olefins with Low CO₂ Emission. ACS Catalysis, 2020, 10, 2046-2059.	11.2	77
27	Methanol to Olefins over H-MCM-22 Zeolite: Theoretical Study on the Catalytic Roles of Various Pores. ACS Catalysis, 2015, 5, 1131-1144.	11.2	72
28	Origin and evolution of the initial hydrocarbon pool intermediates in the transition period for the conversion of methanol to olefins over H-ZSM-5 zeolite. Journal of Catalysis, 2019, 369, 382-395.	6.2	72
29	Polyurethane Foam-Based Ultramicroporous Carbons for CO₂ Capture. ACS Applied Materials & Interfaces, 2016, 8, 18849-18859.	8.0	68
30	One-pot conversion of furfural to alkyl levulinate over bifunctional Au-H₄SiW₁₂O₄₀/ZrO₂ without external H₂. Green Chemistry, 2016, 18, 5667-5675.	9.0	63
31	Regulating Al distribution of ZSM-5 by Sn incorporation for improving catalytic properties in methanol to olefins. Applied Catalysis B: Environmental, 2021, 280, 119391.	20.2	61
32	Role of Acetaldehyde in the Roadmap from Initial Carbonâ€“Carbon Bonds to Hydrocarbons during Methanol Conversion. ACS Catalysis, 2019, 9, 6491-6501.	11.2	60
33	Selective Conversion of CO2 into Propene and Butene. CheM, 2020, 6, 3344-3363.	11.7	58
34	Graphene oxide: an effective acid catalyst for the synthesis of polyoxymethylene dimethyl ethers from methanol and trioxymethylene. Catalysis Science and Technology, 2016, 6, 993-997.	4.1	53
35	One-pot synthesis of mesoporous spherical SnO₂@graphene for high-sensitivity formaldehyde gas sensors. RSC Advances, 2016, 6, 25198-25202.	3.6	53
36	Ni nanoparticles entrapped in nickel phyllosilicate for selective hydrogenation of guaiacol to 2-methoxycyclohexanol. Applied Catalysis A: General, 2018, 568, 231-241.	4.3	53

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37	Highly active and stable Zn/ZSM-5 zeolite catalyst for the conversion of methanol to aromatics: effect of support morphology. Catalysis Science and Technology, 2018, 8, 5646-5656.	4.1	52
38	Ru/CeO2 catalyst with optimized CeO2 morphology and surface facet for efficient hydrogenation of ethyl levulinate to Î³-valerolactone. Journal of Catalysis, 2020, 389, 60-70.	6.2	52
39	Effect of tungsten surface density of WO₃â€“ZrO₂ on its catalytic performance in hydrogenolysis of cellulose to ethylene glycol. RSC Advances, 2017, 7, 8567-8574.	3.6	51
40	Stability and Reactivity of Intermediates of Methanol Related Reactions and Câ€“C Bond Formation over H-ZSM-5 Acidic Catalyst: A Computational Analysis. Journal of Physical Chemistry C, 2016, 120, 6075-6087.	3.1	50
41	Tuning the siting of aluminum in ZSM-11 zeolite and regulating its catalytic performance in the conversion of methanol to olefins. Journal of Catalysis, 2019, 377, 81-97.	6.2	50
42	Recent experimental and theoretical studies on Al siting/acid site distribution in zeolite framework. Current Opinion in Chemical Engineering, 2019, 23, 146-154.	7.8	50
43	Probing the intrinsic active sites of modified graphene oxide for aerobic benzylic alcohol oxidation. Applied Catalysis B: Environmental, 2017, 211, 89-97.	20.2	48
44	Effect of ammonium salts on the synthesis and catalytic properties of TS-1. Microporous and Mesoporous Materials, 2009, 122, 301-308.	4.4	46
45	Enhancement of light olefin production in CO2 hydrogenation over In2O3-based oxide and SAPO-34 composite. Journal of Catalysis, 2020, 391, 459-470.	6.2	44
46	InÂSitu Preparation of Functional Heterogeneous Organotin Catalyst Tethered on SBA-15. Catalysis Letters, 2008, 121, 297-302.	2.6	43
47	Synthesis of chiral polymorph A-enriched zeolite Beta with an extremely concentrated fluoride route. Scientific Reports, 2015, 5, 11521.	3.3	43
48	Methane formation mechanism in the initial methanol-to-olefins process catalyzed by SAPO-34. Catalysis Science and Technology, 2016, 6, 5526-5533.	4.1	43
49	Design of 3D Hollow Porous Heterogeneous Nickelâ€“Cobalt Phosphides for Synergistically Enhancing Catalytic Performance for Electrooxidation of Methanol. ACS Applied Materials & Interfaces, 2020, 12, 34971-34979.	8.0	42
50	Rapid tuning of ZSM-5 crystal size by using polyethylene glycol or colloidal silicalite-1 seed. Microporous and Mesoporous Materials, 2012, 163, 192-200.	4.4	41
51	Regulation of Al distributions and Cu2+ locations in SSZ-13 zeolites for NH3-SCR of NO by different alkali metal cations. Journal of Catalysis, 2021, 393, 190-201.	6.2	41
52	Synthesis of Chainlike ZSM-5 Zeolites: Determination of Synthesis Parameters, Mechanism of Chainlike Morphology Formation, and Their Performance in Selective Adsorption of Xylene Isomers. ACS Applied Materials & Interfaces, 2017, 9, 14899-14910.	8.0	39
53	Low temperature hydrodeoxygenation of guaiacol into cyclohexane over Ni/SiO₂ catalyst combined with HÎ² zeolite. RSC Advances, 2019, 9, 3868-3876.	3.6	37
54	Oriented control of Al locations in the framework of Al-Ge-ITQ-13 for catalyzing methanol conversion to propene. Journal of Catalysis, 2016, 344, 242-251.	6.2	36

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55	Aerobic Oxidation of Alcohols over Isolated Single Au Atoms Supported on CeO2 Nanorods: Catalysis of Interfacial [Oâ€“Ovâ€“Ceâ€“Oâ€“Au] Sites. ACS Applied Nano Materials, 2019, 2, 5214-5223.	5.0	36
56	Evolution of Zn Species on Zn/HZSMâ€5 Catalyst under H₂ Pretreated and its Effect on Ethylene Aromatization. ChemCatChem, 2019, 11, 3892-3902.	3.7	34
57	Theoretical Insights into the Mechanism of Olefin Elimination in the Methanol-to-Olefin Process over HZSM-5, HMOR, HBEA, and HMCM-22 Zeolites. Journal of Physical Chemistry A, 2014, 118, 8901-8910.	2.5	33
58	A facile method for the synthesis of graphene-like 2D metal oxides and their excellent catalytic application in the hydrogenation of nitroarenes. Journal of Materials Chemistry A, 2018, 6, 9948-9961.	10.3	33
59	Synthesis of two-dimensional mesoporous carbon nitride under different carbonization temperatures and investigation of its catalytic properties in Knoevenagel condensations. RSC Advances, 2015, 5, 22838-22846.	3.6	32
60	Stabilizing the framework of SAPO-34 zeolite toward long-term methanol-to-olefins conversion. Nature Communications, 2021, 12, 4661.	12.8	32
61	Cellulose generated-microporous carbon nanosheets with nitrogen doping. RSC Advances, 2014, 4, 9126-9132.	3.6	31
62	Nanosheet MFI Zeolites for Gas Phase Glycerol Dehydration to Acrolein. Catalysts, 2019, 9, 121.	3.5	31
63	Highly effective conversion of CO2 into light olefins abundant in ethene. CheM, 2022, 8, 1376-1394.	11.7	31
64	Hollow Porous Carbon Fiber from Cotton with Nitrogen Doping. ChemPlusChem, 2014, 79, 284-289.	2.8	30
65	Encapsulation of a catalytically active core with a nanoporous shell: a new strategy for designing size-selective catalysts. Journal of Materials Chemistry, 2012, 22, 9069.	6.7	29
66	Mechanistic insights into the catalytic role of various acid sites on ZSM-5 zeolite in the carbonylation of methanol and dimethyl ether. Catalysis Science and Technology, 2018, 8, 3193-3204.	4.1	29
67	Preserving the Active Cuâ€“ZnO Interface for Selective Hydrogenation of CO₂ to Dimethyl Ether and Methanol. ACS Sustainable Chemistry and Engineering, 2021, 9, 2661-2672.	6.7	29
68	Catalytic properties and deactivation behavior of H-MCM-22 in the conversion of methanol to hydrocarbons. RSC Advances, 2015, 5, 28794-28802.	3.6	27
69	Strategic use of CuAlO₂ as a sustained release catalyst for production of hydrogen from methanol steam reforming. Chemical Communications, 2018, 54, 12242-12245.	4.1	27
70	Direct synthesis of acetic acid from carbon dioxide and methane over Cu-modulated BEA, MFI, MOR and TON zeolites: a density functional theory study. Catalysis Science and Technology, 2019, 9, 6613-6626.	4.1	26
71	Improving methanol selectivity in CO2 hydrogenation by tuning the distance of Cu on catalyst. Applied Catalysis B: Environmental, 2021, 298, 120590.	20.2	26
72	Effect of zeolite pore structure on the diffusion and catalytic behaviors in the transalkylation of toluene with 1,2,4-trimethylbenzene. RSC Advances, 2015, 5, 66301-66310.	3.6	25

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73	Ti-rich TS-1: A highly active catalyst for epoxidation of methallyl chloride to 2-methyl epichlorohydrin. Applied Catalysis A: General, 2015, 491, 78-85.	4.3	25
74	Facile fabrication of ZSM-5 zeolite hollow spheres for catalytic conversion of methanol to aromatics. Catalysis Science and Technology, 2017, 7, 560-564.	4.1	25
75	Supported cobalt catalysts for the selective hydrogenation of ethyl levulinate to various chemicals. RSC Advances, 2018, 8, 9152-9160.	3.6	25
76	A Highly Stable Copperâ€Based Catalyst for Clarifying the Catalytic Roles of Cu⁰ and Cu⁺ Species in Methanol Dehydrogenation. Angewandte Chemie, 2018, 130, 1854-1858.	2.0	25
77	Conversion of syngas into light olefins over bifunctional ZnCeZrO/SAPO-34 catalysts: regulation of the surface oxygen vacancy concentration and its relation to the catalytic performance. Catalysis Science and Technology, 2021, 11, 338-348.	4.1	25
78	Evolution of Aromatic Species in Supercages and Its Effect on the Conversion of Methanol to Olefins over H-MCM-22 Zeolite: A Density Functional Theory Study. Journal of Physical Chemistry C, 2016, 120, 27964-27979.	3.1	24
79	Self-metathesis of 1-butene to propene over SBA-15-supported WO₃. Catalysis Science and Technology, 2016, 6, 5515-5525.	4.1	24
80	Hierarchical Porous Carbons Derived from Renewable Poplar Anthers for Highâ€Performance Supercapacitors. ChemElectroChem, 2018, 5, 1451-1458.	3.4	24
81	Promoting effect of alkali metal cations on the catalytic performance of Pd/H-ZSM-5 in the combustion of lean methane. Applied Catalysis A: General, 2020, 602, 117678.	4.3	24
82	Methanol to olefins over H-RUB-13 zeolite: regulation of framework aluminum siting and acid density and their relationship to the catalytic performance. Catalysis Science and Technology, 2020, 10, 1835-1847.	4.1	24
83	Insight into the effect of incorporation of boron into ZSM-11 on its catalytic performance for conversion of methanol to olefins. Catalysis Science and Technology, 2017, 7, 4766-4779.	4.1	23
84	Catalytic roles of the acid sites in different pore channels of H-ZSM-5 zeolite for methanol-to-olefins conversion. Chinese Journal of Catalysis, 2021, 42, 1126-1136.	14.0	23
85	Synthesis and characterization of ZSM-48 in the pure solid system. Zeolites, 1995, 15, 73-76.	0.5	22
86	Zinc Carboxylate Functionalized Mesoporous SBA-15 Catalyst for Selective Synthesis of Methyl-4,4â€²-di(phenylcarbamate). Catalysis Letters, 2009, 128, 405-412.	2.6	21
87	Kinetics and thermodynamics of polymethylbenzene formation over zeolites with different pore sizes for understanding the mechanisms of methanol to olefin conversion â€“ a computational study. Catalysis Science and Technology, 2016, 6, 5326-5335.	4.1	21
88	One-pot synthesis of hierarchical mordenite and its performance in the benzylation of benzene with benzyl alcohol. Journal of Materials Science, 2015, 50, 5059-5067.	3.7	20
89	A highly active Pd/H-ZSM-5 catalyst in lean methane combustion prepared via a solâ€“gel method and treated by reductionâ€“oxidation. New Journal of Chemistry, 2020, 44, 3940-3949.	2.8	20
90	Highly active Auâ€“Pd nanoparticles supported on three-dimensional grapheneâ€–carbon nanotube hybrid for selective oxidation of methanol to methyl formate. RSC Advances, 2015, 5, 44835-44839.	3.6	19

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91	Catalytic Combustion of Lean Methane at Low Temperature Over Palladium on a CoO x â€“SiO2 Composite Support. Catalysis Letters, 2013, 143, 411-417.	2.6	18
92	Kinetic study of vapor-phase Beckmann rearrangement of cyclohexanone oxime over silicalite-1. Chemical Engineering Science, 2016, 153, 246-254.	3.8	18
93	Reaction Mechanism for Direct Cyclization of Linear C₅, C₆, and C₇ Alkenes over Hâ€ITQâ€13 Zeolite Investigated Using Density Functional Theory. ChemPhysChem, 2018, 19, 496-503.	2.1	18
94	Reaction mechanism for the conversion of methanol to olefins over H-ITQ-13 zeolite: a density functional theory study. Catalysis Science and Technology, 2018, 8, 521-533.	4.1	18
95	Effects of introduction of different alkali metal halides on crystallization and characteristics of ZSM-48 in a solid reaction mixture system Effects of alkali metal chlorides. Applied Catalysis A: General, 1996, 143, 299-308.	4.3	17
96	Selective Formation of Para-Xylene by Methanol Aromatization over Phosphorous Modified ZSM-5 Zeolites. Catalysts, 2020, 10, 484.	3.5	17
97	Direct synthesis of dimethyl carbonate from methanol and carbon dioxide over organotin-functionalized mesoporous benzene-silica. Pure and Applied Chemistry, 2011, 84, 663-673.	1.9	16
98	Hierarchically structured Pt/K-Beta zeolites for the catalytic conversion of n-heptane to aromatics. Microporous and Mesoporous Materials, 2021, 324, 111308.	4.4	16
99	Controllable decoration of palladium sub-nanoclusters on reduced graphene oxide with superior catalytic performance in selective oxidation of alcohols. Catalysis Science and Technology, 2017, 7, 5650-5661.	4.1	15
100	Utilization of nitriles as the nitrogen source: practical and economical construction of 4-aminopyrimidine and Î²-enaminonitrile skeletons. Organic Chemistry Frontiers, 2019, 6, 3071-3077.	4.5	15
101	Facile synthesis of hierarchical macro/microporous ZSM-5 zeolite with high catalytic stability in methanol to olefins. Microporous and Mesoporous Materials, 2022, 329, 111538.	4.4	15
102	Effective conversion of CO₂ into light olefins over a bifunctional catalyst consisting of La-modified ZnZrO_x oxide and acidic zeolite. Catalysis Science and Technology, 2022, 12, 2566-2577.	4.1	15
103	Novel nickelâ€“cobalt phosphite with face-sharing octahedra derived electrocatalyst for efficient water splitting. Inorganic Chemistry Frontiers, 2019, 6, 2014-2023.	6.0	14
104	The migration of Zn species on Zn/ZSM-5 catalyst during the process of ethylene aromatization. Catalysis Science and Technology, 2022, 12, 4201-4210.	4.1	13
105	Temperature controlled condensation of nitriles: efficient and convenient synthesis of Î²-enaminonitriles, 4-aminopyrimidines and 4-amidinopyrimidines in one system. RSC Advances, 2020, 10, 6576-6583.	3.6	12
106	Selectfluor facilitated bridging of indoles to bis(indolyl)methanes using methyl tert-butyl ether as a new methylene precursor. Organic and Biomolecular Chemistry, 2021, 19, 4076-4081.	2.8	12
107	Surface-mediated selective photocatalytic aerobic oxidation reactions on TiO₂ nanofibres. RSC Advances, 2015, 5, 56820-56831.	3.6	11
108	Comparative Study of Methanol to Olefins Over ZSM-5, ZSM-11, ZSM-22 and EU-1: Dependence of Catalytic Performance on the Zeolite Framework Structure. Journal of Nanoscience and Nanotechnology, 2017, 17, 3680-3688.	0.9	11

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109	Insight into the Methylation of Alkenes and Aromatics with Methanol over Zeolite Catalysts by Linear Scaling Relations. Journal of Physical Chemistry C, 2020, 124, 13789-13798.	3.1	11
110	Crystallization mechanism study on ZSM-48 in the system Na2O-Al2O3-SiO2-H2N(CH2)6NH2. Microporous Materials, 1997, 8, 131-140.	1.6	10
111	Catalytic Performance of Gold Supported on Mn, Fe and Ni Doped Ceria in the Preferential Oxidation of CO in H2-Rich Stream. Catalysts, 2018, 8, 469.	3.5	10
112	Developing a general method for encapsulation of metal oxide nanoparticles in mesoporous silica shell by unraveling its formation mechanism. Microporous and Mesoporous Materials, 2020, 305, 110381.	4.4	10
113	Improvement of adsorption and catalytic properties of zeolites by precisely controlling their particle morphology. Chemical Communications, 2022, 58, 2041-2054.	4.1	10
114	Kraft lignin derived S and O co-doped porous graphene for metal-free benzylic alcohol oxidation. Catalysis Science and Technology, 2020, 10, 2786-2796.	4.1	9
115	Unraveling the Relationship between Zeolite Structure and MTO Product Distribution by Theoretical Study of the Reaction Mechanism. Journal of Physical Chemistry C, 2021, 125, 26472-26483.	3.1	9
116	Iodine-Mediated Pyridine Ring Expansion for the Construction of Azepines. Organic Letters, 2022, 24, 2075-2080.	4.6	9
117	Self-assembly of silicoaluminophosphate nanocrystals in biphasic media with a water-insoluble structure-directing agent. Catalysis Science and Technology, 2021, 11, 5135-5146.	4.1	8
118	Aqueous CO₂fixation: construction of pyridine skeletons in cooperation with ammonium cations. Green Chemistry, 2021, 23, 7950-7955.	9.0	8
119	Electrochemical Water Splitting by Pseudoâ€spinel, Disordered and Layered Lithium Nickel Oxides: Correlation between Structural Motifs and Catalytic Properties. ChemCatChem, 2018, 10, 2551-2557.	3.7	7
120	Preparation of Pd/SiO2 Catalysts by a Simple Dry Ball-Milling Method for Lean Methane Oxidation and Probe of the State of Active Pd Species. Catalysts, 2021, 11, 725.	3.5	7
121	Influence of the ZSM-5 Support Acidity on the Catalytic Performance of Pd/ZSM-5 in Lean Methane Oxidation. Chemical Research in Chinese Universities, 2022, 38, 229-236.	2.6	7
122	Regulating the distribution of acid sites in ZSM-11 zeolite with different halogen anions to enhance its catalytic performance in the conversion of methanol to olefins. Microporous and Mesoporous Materials, 2022, 341, 112051.	4.4	7
123	Systematic study of the crystallization process of CrAPO-5 using in situ high resolution X-ray diffraction. RSC Advances, 2017, 7, 22964-22973.	3.6	6
124	Area-Controllable Synthesis of (001), (101), and (011) Planes in ZSM-5 Zeolites. Crystal Growth and Design, 2018, 18, 7548-7561.	3.0	6
125	Selectivity Switching of CO2 Hydrogenation from HCOOH to CO with an In Situ Formed Ruâ€“Li Complex. ACS Catalysis, 2021, 11, 9390-9396.	11.2	6
126	Regulation of zeolite particle morphology. Science, 2022, 375, 29-29.	12.6	6

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127	Catalytic Performance of Various Zinc-Based Binary Metal Oxides/H-RUB-13 for Hydrogenation of CO₂. Industrial & Engineering Chemistry Research, 2022, 61, 10409-10418.	3.7	6
128	Enhancing the catalytic performance of H-ITQ-13 zeolite in the conversion of methanol to olefins through regulating the aluminum distribution in its framework. Applied Catalysis A: General, 2022, 637, 118604.	4.3	6
129	A logic-based controller for the mitigation of ventilation air methane in a catalytic flow reversal reactor. Frontiers of Chemical Science and Engineering, 2013, 7, 347-356.	4.4	5
130	Presulfidation and activation mechanism of Mo/Al2O3 catalyst sulfided by ammonium thiosulfate. Korean Journal of Chemical Engineering, 2014, 31, 1368-1376.	2.7	5
131	Assembly of Silicalite-1 Crystals Like Toy Lego Bricks into One-, Two-, and Three-Dimensional Architectures for Enhancing Its Adsorptive Separation and Catalytic Performances. ACS Applied Materials & Interfaces, 2021, 13, 58085-58095.	8.0	5
132	Structure and performance of supported iridium catalyst for the lean methane oxidation at low temperature. Applied Catalysis A: General, 2022, 641, 118699.	4.3	5
133	Copper(ii) facilitated decarboxylation for the construction of pyridylâ€“pyrazole skeletons. Inorganic Chemistry Frontiers, 2019, 6, 2359-2364.	6.0	4
134	Thermodynamic analysis of ethanol synthesis from hydration of ethylene coupled with a sequential reaction. Frontiers of Chemical Science and Engineering, 2020, 14, 847-856.	4.4	4
135	CO2 Hydrogenation on Metal-Organic Frameworks-Based Catalysts: A Mini Review. Frontiers in Chemistry, 0, 10, .	3.6	4
136	Synthesis of HZSM-5 Rich in Paired Al and Its Catalytic Performance for Propane Aromatization. Catalysts, 2020, 10, 622.	3.5	3
137	Probing into the building and evolution of primary hydrocarbon pool species in the process of methanol to olefins over H-ZSM-5 zeolite. Molecular Catalysis, 2021, 516, 111968.	2.0	3
138	Synthesis of methylene-bridged Î±,Î²-unsaturated ketones: Î±-C_{sp³}â€“H methylenation of aromatic ketones using Selectfluor as a mild oxidant. Organic and Biomolecular Chemistry, 2022, 20, 415-419.	2.8	3
139	Improvement of the catalytic performance of ITQ-13 zeolite in methanol to olefins via Ce modification. Catalysis Today, 2023, 410, 184-192.	4.4	3
140	A three-component iodine-catalyzed oxidative coupling reaction: a heterodifunctionalization of 3-methylindoles. Organic and Biomolecular Chemistry, 2021, 19, 5794-5799.	2.8	2
141	Trimethyloxonium ion â€“ a zeolite confined mobile and efficient methyl carrier at low temperatures: a DFT study coupled with microkinetic analysis. Catalysis Science and Technology, 2022, 12, 3328-3342.	4.1	2
142	Solventâ€Free Strategy for Direct Access to Versatile Quaternary Ammonium Salts with Complete Atom Economy. ChemSusChem, 2022, 15, .	6.8	2
143	Copper(II)-Dioxygen Facilitated Activation of Nitromethane: Nitrogen Donors for the Synthesis of Substituted 2-Hydroxyimino-2-phenylacetonitriles and Phthalimides. Frontiers in Chemistry, 2020, 8, 622867.	3.6	0
144	Construction of Singleâ€Crystalline Hierarchical ZSMâ€5 with Open Nanoarchitectures via Anisotropicâ€Kinetics Transformation for the Methanolâ€toâ€Hydrocarbons Reaction. Angewandte Chemie, 0, , .	2.0	0