Feng-Shou Xiao

List of Publications by Year
in descending order

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332 papers	23,919 citations	5574 82 h-index	10158 140 g-index
360 all docs	360 docs citations	360 times ranked	16183 citing authors

#	Article	IF	Citations
1	Green Routes for Synthesis of Zeolites. Chemical Reviews, 2014, 114, 1521-1543.	47.7	511
2	Porous polymer catalysts with hierarchical structures. Chemical Society Reviews, 2015, 44, 6018-6034.	38.1	476
3	pH-Responsive Carrier System Based on Carboxylic Acid Modified Mesoporous Silica and Polyelectrolyte for Drug Delivery. Chemistry of Materials, 2005, 17, 5999-6003.	6.7	475
4	Hydrophobic zeolite modification for in situ peroxide formation in methane oxidation to methanol. Science, 2020, 367, 193-197.	12.6	470
5	Catalytic Properties of Hierarchical Mesoporous Zeolites Templated with a Mixture of Small Organic Ammonium Salts and Mesoscale Cationic Polymers. Angewandte Chemie - International Edition, 2006, 45, 3090-3093.	13.8	422
6	Transesterification Catalyzed by Ionic Liquids on Superhydrophobic Mesoporous Polymers: Heterogeneous Catalysts That Are Faster than Homogeneous Catalysts. Journal of the American Chemical Society, 2012, 134, 16948-16950.	13.7	400
7	Superhydrophobic nanoporous polymers as efficient adsorbents for organic compounds. Nano Today, 2009, 4, 135-142.	11.9	386
8	Hierarchically structured zeolites: synthesis, mass transport properties and applications. Journal of Materials Chemistry, 2012, 22, 17381.	6.7	372
9	Solvent-Free Synthesis of Zeolites from Solid Raw Materials. Journal of the American Chemical Society, 2012, 134, 15173-15176.	13.7	370
10	Mesoporous Aluminosilicates with Ordered Hexagonal Structure, Strong Acidity, and Extraordinary Hydrothermal Stability at High Temperatures. Journal of the American Chemical Society, 2001, 123, 5014-5021.	13.7	343
11	Pore Environment Control and Enhanced Performance of Enzymes Infiltrated in Covalent Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 984-992.	13.7	310
12	Sinter-resistant metal nanoparticle catalysts achieved by immobilization within zeolite crystals via seed-directed growth. Nature Catalysis, 2018, 1, 540-546.	34.4	297
13	Highly Efficient Heterogeneous Hydroformylation over Rh-Metalated Porous Organic Polymers: Synergistic Effect of High Ligand Concentration and Flexible Framework. Journal of the American Chemical Society, 2015, 137, 5204-5209.	13.7	292
14	Synthesis of Heteroatom Substituted SBA-15 by the â€œpH-Adjustingâ€•Method. Chemistry of Materials, 2004, 16, 486-492.	6.7	291
15	Wet-Chemistry Strong Metalâ€“Support Interactions in Titania-Supported Au Catalysts. Journal of the American Chemical Society, 2019, 141, 2975-2983.	13.7	280
16	Organotemplate-Free and Fast Route for Synthesizing Beta Zeolite. Chemistry of Materials, 2008, 20, 4533-4535.	6.7	278
17	Designed copperâ€“amine complex as an efficient template for one-pot synthesis of Cu-SSZ-13 zeolite with excellent activity for selective catalytic reduction of NOx by NH3. Chemical Communications, 2011, 47, 9789.	4.1	269
18	Highly Mesoporous Single-Crystalline Zeolite Beta Synthesized Using a Nonsurfactant Cationic Polymer as a Dual-Function Template. Journal of the American Chemical Society, 2014, 136, 2503-2510.	13.7	266

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19	ZSM-5 Zeolite Single Crystals with b-Axis-Aligned Mesoporous Channels as an Efficient Catalyst for Conversion of Bulky Organic Molecules. Journal of the American Chemical Society, 2012, 134, 4557-4560.	13.7	264
20	Excellent Performance of One-Pot Synthesized Cu-SSZ-13 Catalyst for the Selective Catalytic Reduction of NO_x with NH₃. Environmental Science & Technology, 2014, 48, 566-572.	10.0	264
21	Product Selectivity Controlled by Zeolite Crystals in Biomass Hydrogenation over a Palladium Catalyst. Journal of the American Chemical Society, 2016, 138, 7880-7883.	13.7	262
22	A Pd@Zeolite Catalyst for Nitroarene Hydrogenation with High Product Selectivity by Sterically Controlled Adsorption in the Zeolite Micropores. Angewandte Chemie - International Edition, 2017, 56, 9747-9751.	13.8	248
23	Sulfated graphene as an efficient solid catalyst for acid-catalyzed liquid reactions. Journal of Materials Chemistry, 2012, 22, 5495.	6.7	245
24	Product Selectivity Controlled by Nanoporous Environments in Zeolite Crystals Enveloping Rhodium Nanoparticle Catalysts for CO₂ Hydrogenation. Journal of the American Chemical Society, 2019, 141, 8482-8488.	13.7	242
25	Selective Hydrogenation of CO₂ to Ethanol over Cobalt Catalysts. Angewandte Chemie - International Edition, 2018, 57, 6104-6108.	13.8	241
26	Characterization of aluminosilicate zeolites by UV Raman spectroscopy. Microporous and Mesoporous Materials, 2001, 46, 23-34.	4.4	235
27	Sustainable Synthesis of Zeolites without Addition of Both Organotemplates and Solvents. Journal of the American Chemical Society, 2014, 136, 4019-4025.	13.7	233
28	Templating route for synthesizing mesoporous zeolites with improved catalytic properties. Nano Today, 2009, 4, 292-301.	11.9	227
29	Design and Synthesis of Mesoporous Polymer-Based Solid Acid Catalysts with Excellent Hydrophobicity and Extraordinary Catalytic Activity. ACS Catalysis, 2012, 2, 565-572.	11.2	216
30	Solventâ€Free Synthesis of Silicoaluminophosphate Zeolites. Angewandte Chemie - International Edition, 2013, 52, 9172-9175.	13.8	212
31	Hydrothermally Stable Ordered Mesoporous Titanosilicates with Highly Active Catalytic Sites. Journal of the American Chemical Society, 2002, 124, 888-889.	13.7	210
32	Metalated porous porphyrin polymers as efficient heterogeneous catalysts for cycloaddition of epoxides with CO2 under ambient conditions. Journal of Catalysis, 2016, 338, 202-209.	6.2	210
33	New Strategies for the Preparation of Sinterâ€Resistant Metalâ€Nanoparticleâ€Based Catalysts. Advanced Materials, 2019, 31, e1901905.	21.0	203
34	Hydrophobic Solid Acids and Their Catalytic Applications in Green and Sustainable Chemistry. ACS Catalysis, 2018, 8, 372-391.	11.2	200
35	A sandwich N-doped graphene/Co3O4 hybrid: an efficient catalyst for selective oxidation of olefins and alcohols. Journal of Materials Chemistry A, 2013, 1, 9037.	10.3	196
36	Extraordinarily High Activity in the Hydrodesulfurization of 4,6-Dimethyldibenzothiophene over Pd Supported on Mesoporous Zeolite Y. Journal of the American Chemical Society, 2011, 133, 15346-15349.	13.7	186

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37	Seed-directed synthesis of zeolites with enhanced performance in the absence of organic templates. Chemical Communications, 2011, 47, 3945.	4.1	178
38	Solvent-Free Synthesis of Zeolites from Anhydrous Starting Raw Solids. Journal of the American Chemical Society, 2015, 137, 1052-1055.	13.7	178
39	Hierarchical mesoporous zeolites with controllable mesoporosity templated from cationic polymers. Microporous and Mesoporous Materials, 2010, 131, 58-67.	4.4	170
40	Efficient and stable solid acid catalysts synthesized from sulfonation of swelling mesoporous polydivinylbenzenes. Journal of Catalysis, 2010, 271, 52-58.	6.2	166
41	Importance of platinum particle size for complete oxidation of toluene over Pt/ZSM-5 catalysts. Chemical Communications, 2015, 51, 5936-5938.	4.1	164
42	Cu-exchanged Al-rich SSZ-13 zeolite from organotemplate-free synthesis as NH3-SCR catalyst: Effects of Na+ ions on the activity and hydrothermal stability. Applied Catalysis B: Environmental, 2017, 217, 421-428.	20.2	161
43	Single-site catalyst promoters accelerate metal-catalyzed nitroarene hydrogenation. Nature Communications, 2018, 9, 1362.	12.8	161
44	Strong Metalâ€“Support Interactions Achieved by Hydroxide-to-Oxide Support Transformation for Preparation of Sinter-Resistant Gold Nanoparticle Catalysts. ACS Catalysis, 2017, 7, 7461-7465.	11.2	158
45	Integrating Superwettability within Covalent Organic Frameworks for Functional Coating. CheM, 2018, 4, 1726-1739.	11.7	157
46	Solvent-Free Synthesis of Zeolites: Mechanism and Utility. Accounts of Chemical Research, 2018, 51, 1396-1403.	15.6	156
47	Isolated boron in zeolite for oxidative dehydrogenation of propane. Science, 2021, 372, 76-80.	12.6	155
48	Task-Specific Design of Porous Polymer Heterogeneous Catalysts beyond Homogeneous Counterparts. ACS Catalysis, 2015, 5, 4556-4567.	11.2	152
49	Porous organic ligands (POLs) for synthesizing highly efficient heterogeneous catalysts. Chemical Communications, 2014, 50, 11844-11847.	4.1	148
50	Synthesis and Characterization of High-Quality Zeolite LTA and FAU Single Nanocrystals. Chemistry of Materials, 1998, 10, 1483-1486.	6.7	147
51	Mesoporous ZSM-5 Zeolite-Supported Ru Nanoparticles as Highly Efficient Catalysts for Upgrading Phenolic Biomolecules. ACS Catalysis, 2015, 5, 2727-2734.	11.2	147
52	Importance of Zeolite Wettability for Selective Hydrogenation of Furfural over Pd@Zeolite Catalysts. ACS Catalysis, 2018, 8, 474-481.	11.2	146
53	Metal@Zeolite Hybrid Materials for Catalysis. ACS Central Science, 2020, 6, 1685-1697.	11.3	146
54	Strong metalâ€“support interactions on gold nanoparticle catalysts achieved through Le Chatelierâ€™s principle. Nature Catalysis, 2021, 4, 418-424.	34.4	146

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55	High-Temperature Generalized Synthesis of Stable Ordered Mesoporous Silica-Based Materials by Using Fluorocarbonâ€“Hydrocarbon Surfactant Mixtures. Angewandte Chemie - International Edition, 2003, 42, 3633-3637.	13.8	143
56	Selective catalytic reduction of NOx with NH3: opportunities and challenges of Cu-based small-pore zeolites. National Science Review, 2021, 8, nwab010.	9.5	137
57	Two-dimensional gold nanostructures with high activity for selective oxidation of carbonâ€“hydrogen bonds. Nature Communications, 2015, 6, 6957.	12.8	133
58	Distinguishing the Silanol Groups in the Mesoporous Molecular Sieve MCM-41. Angewandte Chemie International Edition in English, 1996, 34, 2694-2696.	4.4	132
59	Reaction Environment Modification in Covalent Organic Frameworks for Catalytic Performance Enhancement. Angewandte Chemie - International Edition, 2019, 58, 8670-8675.	13.8	128
60	Porous Ionic Polymers as a Robust and Efficient Platform for Capture and Chemical Fixation of Atmospheric CO₂. ChemSusChem, 2017, 10, 1160-1165.	6.8	127
61	Imparting amphiphobicity on single-crystalline porous materials. Nature Communications, 2016, 7, 13300.	12.8	126
62	Solvent-Free Preparation of Nanosized Sulfated Zirconia with BrÃ¸nsted Acidic Sites from a Simple Calcination. Journal of Physical Chemistry B, 2005, 109, 2567-2572.	2.6	124
63	Silica accelerates the selective hydrogenation of CO2 to methanol on cobalt catalysts. Nature Communications, 2020, 11, 1033.	12.8	124
64	Direct Conversion of Syngas to Ethanol within Zeolite Crystals. CheM, 2020, 6, 646-657.	11.7	123
65	Coking-Resistant Iron Catalyst in Ethane Dehydrogenation Achieved through Siliceous Zeolite Modulation. Journal of the American Chemical Society, 2020, 142, 16429-16436.	13.7	120
66	Selective Catalytic Production of 5â€Hydroxymethylfurfural from Glucose by Adjusting Catalyst Wettability. ChemSusChem, 2014, 7, 402-406.	6.8	119
67	Nanoporous catalysts for biomass conversion. Green Chemistry, 2015, 17, 24-39.	9.0	119
68	Zeolite Fixed Metal Nanoparticles: New Perspective in Catalysis. Accounts of Chemical Research, 2021, 54, 2579-2590.	15.6	117
69	Enhanced performance in catalytic combustion of toluene over mesoporous Beta zeolite-supported platinum catalyst. Applied Catalysis B: Environmental, 2013, 140-141, 199-205.	20.2	111
70	Programming Covalent Organic Frameworks for Photocatalysis: Investigation of Chemical and Structural Variations. Matter, 2020, 2, 416-427.	10.0	110
71	Formation Pathway for LTA Zeolite Crystals Synthesized via a Charge Density Mismatch Approach. Journal of the American Chemical Society, 2013, 135, 2248-2255.	13.7	105
72	Effects of post-treatment method and Na co-cation on the hydrothermal stability of Cuâ€“SSZ-13 catalyst for the selective catalytic reduction of NO with NH3. Applied Catalysis B: Environmental, 2015, 179, 206-212.	20.2	105

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73	The Importance of Catalyst Wettability. ChemCatChem, 2014, 6, 3048-3052.	3.7	104
74	Adsorptive and catalytic properties in the removal of volatile organic compounds over zeolite-based materials. Chinese Journal of Catalysis, 2016, 37, 800-809.	14.0	101
75	Designed synthesis of TS-1 crystals with controllable b-oriented length. Chemical Communications, 2011, 47, 1048-1050.	4.1	96
76	Transesterification to Biodiesel with Superhydrophobic Porous Solid Base Catalysts. ChemSusChem, 2011, 4, 1059-1062.	6.8	95
77	A Hierarchical Bipyridineâ€Constructed Framework for Highly Efficient Carbon Dioxide Capture and Catalytic Conversion. ChemSusChem, 2017, 10, 1186-1192.	6.8	94
78	Rational construction of metal nanoparticles fixed in zeolite crystals as highly efficient heterogeneous catalysts. Nano Today, 2018, 20, 74-83.	11.9	94
79	Superhydrophobicity: Constructing Homogeneous Catalysts into Superhydrophobic Porous Frameworks to Protect Them from Hydrolytic Degradation. CheM, 2016, 1, 628-639.	11.7	93
80	Improved paraâ€Xylene Selectivity in metaâ€Xylene Isomerization Over ZSMâ€5 Crystals with Relatively Long bâ€Axis Length. ChemCatChem, 2013, 5, 1517-1523.	3.7	92
81	MnO2/graphene oxide: a highly active catalyst for amide synthesis from alcohols and ammonia in aqueous media. Journal of Materials Chemistry, 2012, 22, 18115.	6.7	89
82	Ordered Mesoporous Materials with Improved Stability and Catalytic Activity. Topics in Catalysis, 2005, 35, 9-24.	2.8	86
83	Design and synthesis of an efficient nanoporous adsorbent for Hg²⁺ and Pb²⁺ ions in water. Journal of Materials Chemistry A, 2016, 4, 5999-6005.	10.3	86
84	Cobaltâ€“Nickel Catalysts for Selective Hydrogenation of Carbon Dioxide into Ethanol. ACS Catalysis, 2019, 9, 11335-11340.	11.2	85
85	Aluminium-rich Beta zeolite-supported platinum nanoparticles for the low-temperature catalytic removal of toluene. Journal of Materials Chemistry A, 2015, 3, 5556-5562.	10.3	83
86	A Pd@Zeolite Catalyst for Nitroarene Hydrogenation with High Product Selectivity by Sterically Controlled Adsorption in the Zeolite Micropores. Angewandte Chemie, 2017, 129, 9879-9883.	2.0	81
87	Design and synthesis of hydrophobic and stable mesoporous polymeric solid acid with ultra strong acid strength and excellent catalytic activities for biomass transformation. Applied Catalysis B: Environmental, 2013, 136-137, 193-201.	20.2	79
88	Activity and Selectivity in Nitroarene Hydrogenation over Au Nanoparticles on the Edge/Corner of Anatase. ACS Catalysis, 2016, 6, 4110-4116.	11.2	79
89	Organic Template Free Synthesis of Aluminosilicate Zeolite ECR-1. Chemistry of Materials, 2006, 18, 2775-2777.	6.7	78
90	Organic Template-Free Synthesis of ZSM-34 Zeolite from an Assistance of Zeolite L Seeds Solution. Chemistry of Materials, 2008, 20, 357-359.	6.7	77

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91	Insights of the Crystallization Process of Molecular Sieve AlPO₄-5 Prepared by Solvent-Free Synthesis. Journal of the American Chemical Society, 2016, 138, 6171-6176.	13.7	77
92	Organotemplate-free synthesis of high-silica ferrierite zeolite induced by CDO-structure zeolite building units. Journal of Materials Chemistry, 2011, 21, 9494.	6.7	76
93	Understanding of the High Hydrothermal Stability of the Mesoporous Materials Prepared by the Assembly of Triblock Copolymer with Preformed Zeolite Precursors in Acidic Media. Journal of Physical Chemistry B, 2003, 107, 7551-7556.	2.6	73
94	A hierarchical porous ionic organic polymer as a new platform for heterogeneous phase transfer catalysis. Journal of Materials Chemistry A, 2015, 3, 23871-23875.	10.3	73
95	Hierarchical Sn-Beta Zeolite Catalyst for the Conversion of Sugars to Alkyl Lactates. ACS Sustainable Chemistry and Engineering, 2017, 5, 3123-3131.	6.7	72
96	Efficient and rapid transformation of high silica CHA zeolite from FAU zeolite in the absence of water. Journal of Materials Chemistry A, 2017, 5, 9076-9080.	10.3	71
97	Creating solvation environments in heterogeneous catalysts for efficient biomass conversion. Nature Communications, 2018, 9, 3236.	12.8	70
98	Design and preparation of efficient hydroisomerization catalysts by the formation of stable SAPO-11 molecular sieve nanosheets with 10â€“20 nm thickness and partially blocked acidic sites. Chemical Communications, 2017, 53, 4942-4945.	4.1	69
99	Zeolite nanosheets for catalysis. Chemical Society Reviews, 2022, 51, 2431-2443.	38.1	69
100	Superior performance in deep saturation of bulky aromatic pyrene over acidic mesoporous Beta zeolite-supported palladium catalyst. Journal of Catalysis, 2007, 249, 111-115.	6.2	68
101	Atom-economical synthesis of a high silica CHA zeolite using a solvent-free route. Chemical Communications, 2015, 51, 16920-16923.	4.1	68
102	Mesoporous zeolites as efficient catalysts for oil refining and natural gas conversion. Frontiers of Chemical Science and Engineering, 2013, 7, 233-248.	4.4	67
103	A significant enhancement of catalytic activities in oxidation with H2O2 over the TS-1 zeolite by adjusting the catalyst wettability. Chemical Communications, 2014, 50, 2012.	4.1	66
104	Enhanced catalytic performance in dehydration of sorbitol to isosorbide over a superhydrophobic mesoporous acid catalyst. Catalysis Today, 2015, 242, 249-254.	4.4	66
105	Beyond Creation of Mesoporosity: The Advantages of Polymerâ€Based Dualâ€Function Templates for Fabricating Hierarchical Zeolites. Advanced Functional Materials, 2016, 26, 1881-1891.	14.9	66
106	Complete oxidation of formaldehyde at room temperature over an Al-rich Beta zeolite supported platinum catalyst. Applied Catalysis B: Environmental, 2017, 219, 200-208.	20.2	65
107	Insights into the Topotactic Conversion Process from Layered Silicate RUB-36 to FER-type Zeolite by Layer Reassembly. Chemistry of Materials, 2013, 25, 840-847.	6.7	64
108	Rare-earth ion exchanged Cu-SSZ-13 zeolite from organotemplate-free synthesis with enhanced hydrothermal stability in NH₃-SCR of NO_x. Catalysis Science and Technology, 2019, 9, 241-251.	4.1	64

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109	Metal-acid interfaces enveloped in zeolite crystals for cascade biomass hydrodeoxygenation. Applied Catalysis B: Environmental, 2019, 254, 560-568.	20.2	64
110	Superhydrophilic mesoporous sulfonated melamineâ€“formaldehyde resin supported palladium nanoparticles as an efficient catalyst for biofuel upgrade. Journal of Materials Chemistry A, 2013, 1, 8630.	10.3	63
111	Origin of the Low Olefin Production over HZSM-22 and HZSM-23 Zeolites: External Acid Sites and Pore Mouth Catalysis. ACS Catalysis, 2014, 4, 529-534.	11.2	63
112	Dispersion of Inorganic Salts into Zeolites and Their Pore Modification. Journal of Catalysis, 1998, 176, 474-487.	6.2	61
113	Mesoporous cross-linked polymer copolymerized with chiral BINAP ligand coordinated to a ruthenium species as an efficient heterogeneous catalyst for asymmetric hydrogenation. Chemical Communications, 2012, 48, 10505.	4.1	60
114	High-temperature synthesis of stable and ordered mesoporous polymer monoliths with low dielectric constants. Journal of Materials Chemistry, 2009, 19, 7921.	6.7	59
115	Interlayer Expansion of the Hydrous Layer Silicate RUB-36 to a Functionalized, Microporous Framework Silicate: Crystal Structure Analysis and Physical and Chemical Characterization. Chemistry of Materials, 2012, 24, 1536-1545.	6.7	59
116	Catalytic applications of OSDA-free Beta zeolite. Journal of Catalysis, 2013, 308, 73-81.	6.2	59
117	Solventâ€Free Syntheses of Hierarchically Porous Aluminophosphateâ€Based Zeolites with AEL and AFI Structures. Chemistry - A European Journal, 2014, 20, 17616-17623.	3.3	59
118	Zirconium Oxide Supported Palladium Nanoparticles as a Highly Efficient Catalyst in the Hydrogenationâ€“Amination of Levulinic Acid to Pyrrolidones. ChemCatChem, 2017, 9, 2661-2667.	3.7	59
119	Methanol to Olefins Reaction over Cavity-type Zeolite: Cavity Controls the Critical Intermediates and Product Selectivity. ACS Catalysis, 2018, 8, 10950-10963.	11.2	59
120	Sulfonated hollow sphere carbon as an efficient catalyst for acetalisation of glycerol. Journal of Materials Chemistry A, 2013, 1, 9422.	10.3	58
121	A new catalyst platform: zeolite Beta from template-free synthesis. Catalysis Science and Technology, 2013, 3, 2580.	4.1	58
122	Solvent-free synthesis of titanosilicate zeolites. Journal of Materials Chemistry A, 2015, 3, 14093-14095.	10.3	58
123	Controllable cyanation of carbon-hydrogen bonds by zeolite crystals over manganese oxide catalyst. Nature Communications, 2017, 8, 15240.	12.8	57
124	Interlayerâ€Expanded Microporous Titanosilicate Catalysts with Functionalized Hydroxyl Groups. ChemCatChem, 2011, 3, 1442-1446.	3.7	56
125	Solventâ€Free Synthesis of Zeolite Crystals Encapsulating Goldâ€“Palladium Nanoparticles for the Selective Oxidation of Bioethanol. ChemSusChem, 2015, 8, 2867-2871.	6.8	56
126	Combination of binary active sites into heterogeneous porous polymer catalysts for efficient transformation of CO2 under mild conditions. Chinese Journal of Catalysis, 2021, 42, 618-626.	14.0	56

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127	Design and Synthesis of a Catalytically Active Cu-SSZ-13 Zeolite from a Copper-Amine Complex Template. Chinese Journal of Catalysis, 2012, 33, 92-105.	14.0	54
128	Direct observation of tin sites and their reversible interconversion in zeolites by solid-state NMR spectroscopy. Communications Chemistry, 2018, 1, .	4.5	54
129	Tetramethylguanidine-templated synthesis of aluminophosphate-based microporous crystals with AFI-type structure. Microporous and Mesoporous Materials, 2009, 117, 561-569.	4.4	52
130	Organotemplate-free, seed-directed, and rapid synthesis of Al-rich zeolite MTT with improved catalytic performance in isomerization of m-xylene. Microporous and Mesoporous Materials, 2014, 186, 106-112.	4.4	52
131	Transformation synthesis of aluminosilicate SSZ-39 zeolite from ZSM-5 and beta zeolite. Journal of Materials Chemistry A, 2019, 7, 4420-4425.	10.3	52
132	Dispersed Nickel Boosts Catalysis by Copper in CO₂ Hydrogenation. ACS Catalysis, 2020, 10, 9261-9270.	11.2	52
133	Organotemplate-free and seed-directed synthesis of levyne zeolite. Microporous and Mesoporous Materials, 2012, 155, 1-7.	4.4	51
134	Atomically Dispersed Ru on Manganese Oxide Catalyst Boosts Oxidative Cyanation. ACS Catalysis, 2020, 10, 6299-6308.	11.2	51
135	Fischerâ€“Tropsch synthesis to olefins boosted by MFI zeolite nanosheets. Nature Nanotechnology, 2022, 17, 714-720.	31.5	51
136	Seed-directed and organotemplate-free synthesis of TON zeolite. Catalysis Today, 2014, 226, 103-108.	4.4	50
137	Hydrophobic Zeolite Containing Titania Particles as Wettability-Selective Catalyst for Formaldehyde Removal. ACS Catalysis, 2018, 8, 5250-5254.	11.2	50
138	Superior Performance in Catalytic Combustion of Toluene over KZSM-5 Zeolite Supported Platinum Catalyst. Catalysis Letters, 2014, 144, 1851-1859.	2.6	49
139	Solvent-free and Mesoporogen-free Synthesis of Mesoporous Aluminosilicate ZSM-5 Zeolites with Superior Catalytic Properties in the Methanol-to-Olefins Reaction. Industrial & Engineering Chemistry Research, 2017, 56, 1450-1460.	3.7	49
140	Catalytically active and hierarchically porous SAPO-11 zeolite synthesized in the presence of polyhexamethylene biguanidine. Journal of Colloid and Interface Science, 2014, 418, 193-199.	9.4	48
141	Creation of BrÃ¸nsted acid sites on Sn-based solid catalysts for the conversion of biomass. Journal of Materials Chemistry A, 2014, 2, 3725.	10.3	48
142	Strategies for the design of porous polymers as efficient heterogeneous catalysts: from co-polymerization to self-polymerization. Catalysis Science and Technology, 2017, 7, 1028-1039.	4.1	48
143	Sustainable Synthesis of Pure Silica Zeolites from a Combined Strategy of Zeolite Seeding and Alcohol Filling. Angewandte Chemie - International Edition, 2019, 58, 12138-12142.	13.8	47
144	Evolution of D6R units in the interzeolite transformation from FAU, MFI or *BEA into AEI: transfer or reassembly?. Inorganic Chemistry Frontiers, 2020, 7, 2204-2211.	6.0	47

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145	Interzeolite transformation from FAU to CHA and MFI zeolites monitored by UV Raman spectroscopy. Chinese Journal of Catalysis, 2019, 40, 1854-1859.	14.0	46
146	Porous Polymerized Organocatalysts Rationally Synthesized from the Corresponding Vinyl-Functionalized Monomers as Efficient Heterogeneous Catalysts. ACS Catalysis, 2015, 5, 1556-1559.	11.2	45
147	Organotemplate-Free Syntheses of ZSM-34 Zeolite and Its Heteroatom-Substituted Analogues with Good Catalytic Performance. Chemistry of Materials, 2010, 22, 3099-3107.	6.7	44
148	Insights into the Organotemplate-Free Synthesis of Zeolite Catalysts. Engineering, 2017, 3, 567-574.	6.7	44
149	Hydrogenation of Biofuels with Formic Acid over a Palladiumâ€Based Ternary Catalyst with Two Types of Active Sites. ChemSusChem, 2014, 7, 1537-1541.	6.8	43
150	Importance of controllable Al sites in CHA framework by crystallization pathways for NH3-SCR reaction. Applied Catalysis B: Environmental, 2020, 277, 119193.	20.2	43
151	Simple Preparation of Honeycomb-like Macrostructured and Microporous Carbons with High Performance in Oxidative Dehydrogenation of Ethylbenzene. Chemistry of Materials, 2007, 19, 2894-2897.	6.7	42
152	Enhancement of low-temperature activity over Cu-exchanged zeolite beta from organotemplate-free synthesis for the selective catalytic reduction of NOx with NH3 in exhaust gas streams. Microporous and Mesoporous Materials, 2014, 200, 304-310.	4.4	41
153	Reaction Environment Modification in Covalent Organic Frameworks for Catalytic Performance Enhancement. Angewandte Chemie, 2019, 131, 8762-8767.	2.0	40
154	High-temperature synthesis of ordered mesoporous silicas from solo hydrocarbonsurfactants and understanding of their synthetic mechanisms. Journal of Materials Chemistry, 2009, 19, 661-665.	6.7	39
155	â€œSolvent-freeâ€•synthesis of thermally stable and hierarchically porous aluminophosphates (SF-APOs) and heteroatom-substituted aluminophosphates (SF-MAPOs). Journal of Materials Chemistry, 2011, 21, 12026.	6.7	39
156	Organotemplate-free and seed-directed synthesis of ZSM-34 zeolite with good performance in methanol-to-olefins. Journal of Materials Chemistry, 2012, 22, 12238.	6.7	39
157	Superhydrophobic, chiral, and mesoporous TsDPEN copolymer coordinated to ruthenium species as an efficient catalyst for asymmetric transfer hydrogenation. Nano Today, 2013, 8, 342-350.	11.9	39
158	Improvement of catalytic activity over Cu–Fe modified Al-rich Beta catalyst for the selective catalytic reduction of NO with NH3. Microporous and Mesoporous Materials, 2016, 236, 211-217.	4.4	39
159	Potassium-directed sustainable synthesis of new high silica small-pore zeolite with KFI structure (ZJM-7) as an efficient catalyst for NH3-SCR reaction. Applied Catalysis B: Environmental, 2021, 281, 119480.	20.2	39
160	High temperature synthesis of high silica zeolite Y with good crystallinity in the presence of N-methylpyridinium iodide. Chemical Communications, 2013, 49, 10495.	4.1	38
161	Tuning product selectivity in CO₂hydrogenation over metal-based catalysts. Chemical Science, 2021, 12, 14660-14673.	7.4	38
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