An-Min Zheng

List of Publications by Year
in descending order

272	13,271	20817	34986
papers	citations	60 h-index	98 g-index

290	290	290	12325
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Acidic hierarchical porous ZSM-5 assembled palladium catalyst: A green substitute to transform primary amides to nitriles. Applied Catalysis B: Environmental, 2022, 302, 120835.	20.2	15
2	Frustrated Lewis Pair in Zeolite Cages for Alkane Activations. Angewandte Chemie - International Edition, 2022, 61, e202116269.	13.8	12
3	Diffusive Skin Effect in Zeolites. Journal of Physical Chemistry Letters, 2022, 13, 2808-2813.	4.6	6
4	Design of a Small Organic Template for the Synthesis of Self-Pillared Pentasil Zeolite Nanosheets. Journal of the American Chemical Society, 2022, 144, 6270-6277.	13.7	24
5	Single atomic Cu-Anchored 2D covalent organic framework as a nanoreactor for CO2 capture and in-situ conversion: A computational study. Chemical Engineering Science, 2022, 253, 117536.	3.8	5
6	Towards the Efficient Catalytic Valorization of Chitin to N-Acylethanolamine over Ni/CeO2 Catalyst: Exploring the Shape-Selective Reactivity. Catalysts, 2022, 12, 460.	3.5	2
7	Thermal Alteration in Adsorption Sites over SAPOâ€34 Zeolite. Angewandte Chemie - International Edition, 2022, 61, .	13.8	4
8	Carbocation chemistry confined in zeolites: spectroscopic and theoretical characterizations. Chemical Society Reviews, 2022, 51, 4337-4385.	38.1	36
9	In situ imaging of the sorption-induced subcell topological flexibility of a rigid zeolite framework. Science, 2022, 376, 491-496.	12.6	62
10	Pore-Confined and Diffusion-Dependent Olefin Catalytic Cracking for the Production of Propylene over SAPO Zeolites. Industrial & Engineering Chemistry Research, 2022, 61, 7760-7776.	3.7	7
11	Framework aluminum distribution in ZSM-5 zeolite directed by organic structure-directing agents: a theoretical investigation. Catalysis Today, 2022, 405-406, 101-110.	4.4	1
12	Fischerâ€“Tropsch synthesis to olefins boosted by MFI zeolite nanosheets. Nature Nanotechnology, 2022, 17, 714-720.	31.5	51
13	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
14	In Situ Observation of Nonâ€Classical 2â€Norbornyl Cation in Confined Zeolites at Ambient Temperature. Angewandte Chemie - International Edition, 2021, 60, 4581-4587.	13.8	16
15	In Situ Observation of Nonâ€Classical 2â€Norbornyl Cation in Confined Zeolites at Ambient Temperature. Angewandte Chemie, 2021, 133, 4631-4637.	2.0	2
16	Precisely regulating the BrÃ¸nsted acidity and catalytic reactivity of novel allylic Câ€“H acidic catalysts. Fuel, 2021, 289, 119845.	6.4	1
17	Cooperative catalytically active sites for methanol activation by single metal ion-doped H-ZSM-5. Chemical Science, 2021, 12, 210-219.	7.4	15
18	Atom-planting synthesis of MCM-36 catalyst to investigate the influence of pore structure and titanium coordination state on epoxidation activity. Microporous and Mesoporous Materials, 2021, 310, 110645.	4.4	11

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19	Gating control effect facilitates excellent gas selectivity in a novel Na-SSZ-27 zeolite. Chemical Communications, 2021, 57, 4170-4173.	4.1	2
20	RÃ¼cktitelbild: In Situ Observation of Nonâ€Classical 2â€Norbornyl Cation in Confined Zeolites at Ambient Temperature (Angew. Chem. 9/2021). Angewandte Chemie, 2021, 133, 5004-5004.	2.0	0
21	Stepwise or Concerted Mechanisms of Benzene Ethylation Catalyzed by Zeolites? Theoretical Analysis of Reaction Pathways. Catalysis Letters, 2021, 151, 3048-3056.	2.6	6
22	Dynamic Activation of C1 Molecules Evoked by Zeolite Catalysis. ACS Central Science, 2021, 7, 681-687.	11.3	14
23	Effect of coking and propylene adsorption on enhanced stability for Co2+-catalyzed propane dehydrogenation. Journal of Catalysis, 2021, 395, 105-116.	6.2	34
24	Synergistically enhance confined diffusion by continuum intersecting channels in zeolites. Science Advances, 2021, 7, .	10.3	17
25	Correlating the Adsorption Preference and Mass Transfer of Xenon in RHO-Type Molecular Sieves. Journal of Physical Chemistry C, 2021, 125, 6832-6838.	3.1	5
26	Rational Design of Synergistic Active Sites for Catalytic Ethene/2-Butene Cross-Metathesis in a Rhenium-Doped Y Zeolite Catalyst. ACS Catalysis, 2021, 11, 3530-3540.	11.2	9
27	Isolated boron in zeolite for oxidative dehydrogenation of propane. Science, 2021, 372, 76-80.	12.6	155
28	Confinement-Driven â€œFlexibleâ€•Acidity Properties of Porous Zeolite Catalysts with Varied Probe-Assisted Solid-State NMR Spectroscopy. Journal of Physical Chemistry C, 2021, 125, 11580-11590.	3.1	8
29	Surface Fingerprinting of Faceted Metal Oxides and Porous Zeolite Catalysts by Probe-Assisted Solid-State NMR Approaches. Accounts of Chemical Research, 2021, 54, 2421-2433.	15.6	21
30	Thermal resistance effect on anomalous diffusion of molecules under confinement. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	24
31	Electronicâ€State Manipulation of Surface Titanium Activates Dephosphorylation Over TiO₂ Near Room Temperature. Angewandte Chemie - International Edition, 2021, 60, 16149-16155.	13.8	9
32	Enhanced hydrothermal stability of Cu/SSZ-39 with increasing Cu contents, and the mechanism of selective catalytic reduction of NO. Microporous and Mesoporous Materials, 2021, 320, 111060.	4.4	21
33	Layered double hydroxide membrane with high hydroxide conductivity and ion selectivity for energy storage device. Nature Communications, 2021, 12, 3409.	12.8	94
34	Electronicâ€State Manipulation of Surface Titanium Activates Dephosphorylation Over TiO₂ Near Room Temperature. Angewandte Chemie, 2021, 133, 16285-16291.	2.0	11
35	Induced Active Sites by Adsorbate in Zeotype Materials. Journal of the American Chemical Society, 2021, 143, 8761-8771.	13.7	19
36	Molecular Routes of Dynamic Autocatalysis for Methanol-to-Hydrocarbons Reaction. Journal of the American Chemical Society, 2021, 143, 12038-12052.	13.7	60

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37	Design of Cobaltâ€“Amine Complex as an Efficient Structure-Directing Agent for One-Pot Synthesis of Co-SSZ-13 Zeolite. Journal of Physical Chemistry C, 2021, 125, 16343-16349.	3.1	12
38	A Cationic Polymerization Strategy to Design Sulfonated Microâ€“Mesoporous Polymers as Efficient Adsorbents for Ammonia Capture and Separation. Macromolecules, 2021, 54, 7010-7020.	4.8	16
39	Efficiently Selective Oxidation of H₂S to Elemental Sulfur over Covalent Triazine Framework Catalysts. ACS Applied Materials & Interfaces, 2021, 13, 34124-34133.	8.0	21
40	The first carbon-carbon bond formation mechanism in methanol-to-hydrocarbons process over chabazite zeolite. CheM, 2021, 7, 2415-2428.	11.7	24
41	Molecular Understanding of the Catalytic Consequence of Ketene Intermediates under Confinement. Journal of the American Chemical Society, 2021, 143, 15440-15452.	13.7	45
42	Anionic Tuning of Zeolite Crystallization. CCS Chemistry, 2021, 3, 189-198.	7.8	20
43	Acidic metalâ€“organic framework empowered precise hydrodeoxygenation of bio-based furan compounds and cyclic ethers for sustainable fuels. Green Chemistry, 2021, 23, 9974-9981.	9.0	9
44	¹³C chemical shift tensors in MOF Î±â€Mg₃(HCOO)₆: Which component is more sensitive to hostâ€guest interaction?. Magnetic Resonance in Chemistry, 2020, 58, 1082-1090.	1.9	6
45	Functional groups to modify g-C3N4 for improved photocatalytic activity of hydrogen evolution from water splitting. Chinese Chemical Letters, 2020, 31, 1648-1653.	9.0	99
46	Thin-film composite membrane breaking the trade-off between conductivity and selectivity for a flow battery. Nature Communications, 2020, 11, 13.	12.8	127
47	2D and 3D Porphyrinic Covalent Organic Frameworks: The Influence of Dimensionality on Functionality. Angewandte Chemie - International Edition, 2020, 59, 3624-3629.	13.8	227
48	Solid-state 31P NMR mapping of active centers and relevant spatial correlations in solid acid catalysts. Nature Protocols, 2020, 15, 3527-3555.	12.0	54
49	Direct synthesis of the organic and Ge free Al containing BOG zeolite (ITQ-47) and its application for transformation of biomass derived molecules. Chemical Science, 2020, 11, 12103-12108.	7.4	14
50	Insight into the effects of acid characteristics on the catalytic performance of Sn-MFI zeolites in the transformation of dihydroxyacetone to methyl lactate. Journal of Catalysis, 2020, 391, 386-396.	6.2	17
51	Waterâ€Induced Structural Dynamic Process in Molecular Sieves under Mild Hydrothermal Conditions: Shipâ€inâ€aâ€Bottle Strategy for Acidity Identification and Catalyst Modification. Angewandte Chemie - International Edition, 2020, 59, 20672-20681.	13.8	26
52	Waterâ€Induced Structural Dynamic Process in Molecular Sieves under Mild Hydrothermal Conditions: Shipâ€inâ€aâ€Bottle Strategy for Acidity Identification and Catalyst Modification. Angewandte Chemie, 2020, 132, 20853-20862.	2.0	5
53	Higher Magnetic Fields, Finer MOF Structural Information: ¹⁷O Solid-State NMR at 35.2 T. Journal of the American Chemical Society, 2020, 142, 14877-14889.	13.7	47
54	Mechanistic insights of selective syngas conversion over Zn grafted on ZSM-5 zeolite. Catalysis Science and Technology, 2020, 10, 8173-8181.	4.1	6

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55	Accelerating Biodiesel Catalytic Production by Confined Activation of Methanol over High-Concentration Ionic Liquid-Grafted UiO-66 Solid Superacids. ACS Catalysis, 2020, 10, 11848-11856.	11.2	32
56	Covalent organic framework shows high isobutene adsorption selectivity from C4 hydrocarbons: Mechanism of interpenetration isomerism and pedal motion. Green Energy and Environment, 2020, 7, 296-296.	8.7	8
57	Acidity characterization of solid acid catalysts by solid-state 31P NMR of adsorbed phosphorus-containing probe molecules: An update. Annual Reports on NMR Spectroscopy, 2020, , 65-149.	1.5	2
58	Dependence of zeolite topology on alkane diffusion inside <scp> diverse channels</scp>. AICHE Journal, 2020, 66, e16269.	3.6	22
59	A Cationic Oligomer as an Organic Template for Direct Synthesis of Aluminosilicate ITH Zeolite. Angewandte Chemie - International Edition, 2020, 59, 15649-15655.	13.8	22
60	A Cationic Oligomer as an Organic Template for Direct Synthesis of Aluminosilicate ITH Zeolite. Angewandte Chemie, 2020, 132, 15779-15785.	2.0	1
61	Theoretical Prediction from Classical Equations and Rational Synthesis of Ultrafine LTL Zeolite Nanocrystals. Journal of Physical Chemistry C, 2020, 124, 13819-13824.	3.1	2
62	Differentiating Surface Ce Species among CeO₂ Facets by Solid-State NMR for Catalytic Correlation. ACS Catalysis, 2020, 10, 4003-4011.	11.2	59
63	Simultaneous Evaluation of Reaction and Diffusion over Molecular Sieves for Shape-Selective Catalysis. ACS Catalysis, 2020, 10, 8727-8735.	11.2	32
64	Molecular elucidating of an unusual growth mechanism for polycyclic aromatic hydrocarbons in confined space. Nature Communications, 2020, 11, 1079.	12.8	70
65	From One to Two: Acidic Proton Spatial Networks in Porous Zeolite Materials. Chemistry of Materials, 2020, 32, 1332-1342.	6.7	35
66	Modulation of Selfâ€Separating Molecular Catalysts for Highly Efficient Biomass Transformations. Chemistry - A European Journal, 2020, 26, 11900-11908.	3.3	9
67	Insight into dynamic and steady-state active sites for nitrogen activation to ammonia by cobalt-based catalyst. Nature Communications, 2020, 11, 653.	12.8	72
68	Direct probing of heterogeneity for adsorption and diffusion within a SAPO-34 crystal. Chemical Communications, 2019, 55, 10693-10696.	4.1	5
69	Can Hammett indicators accurately measure the acidity of zeolite catalysts with confined space? Insights into the mechanism of coloration. Catalysis Science and Technology, 2019, 9, 5045-5057.	4.1	11
70	Methanol to Olefins Reaction Route Based on Methylcyclopentadienes as Critical Intermediates. ACS Catalysis, 2019, 9, 7373-7379.	11.2	58
71	Cavity-controlled diffusion in 8-membered ring molecular sieve catalysts for shape selective strategy. Journal of Catalysis, 2019, 377, 51-62.	6.2	45
72	Design of Efficient, Hierarchical Porous Polymers Endowed with Tunable Structural Base Sites for Direct Catalytic Elimination of COS and H₂S. ACS Applied Materials & Interfaces, 2019, 11, 29950-29959.	8.0	61

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73	Presituated â€œcokeâ€•determined mechanistic route for ethene formation in the methanol-to-olefins process on SAPO-34 catalyst. Journal of Catalysis, 2019, 377, 153-162.	6.2	40
74	Direct Synthesis of Aluminosilicate IWR Zeolite from a Strong Interaction between Zeolite Framework and Organic Template. Journal of the American Chemical Society, 2019, 141, 18318-18324.	13.7	30
75	Violation or Abidance of LÃ¶wensteinâ€™s Rule in Zeolites Under Synthesis Conditions?. ACS Catalysis, 2019, 9, 10618-10625.	11.2	23
76	Origin of weak Lewis acids on silanol nests in dealuminated zeolite Beta. Journal of Catalysis, 2019, 380, 204-214.	6.2	53
77	N-Oxyl Radicals Trapped on Zeolite Surface Accelerate Photocatalysis. ACS Catalysis, 2019, 9, 10448-10453.	11.2	15
78	Mapping the dynamics of methanol and xenon co-adsorption in SWNTs by in situ continuous-flow hyperpolarized ¹²⁹Xe NMR. Physical Chemistry Chemical Physics, 2019, 21, 3287-3293.	2.8	4
79	Ultrathin nanosheets of aluminosilicate FER zeolites synthesized in the presence of a sole small organic ammonium. Journal of Materials Chemistry A, 2019, 7, 16671-16676.	10.3	27
80	Direct Synthesis of Aluminosilicate SSZ-39 Zeolite Using Colloidal Silica as a Starting Source. ACS Applied Materials & Interfaces, 2019, 11, 23112-23117.	8.0	34
81	Developing two-dimensional solid superacids with enhanced mass transport, extremely high acid strength and superior catalytic performance. Chemical Science, 2019, 10, 5875-5883.	7.4	37
82	Reactivity descriptors of diverse copper-oxo species on ZSM-5 zeolite towards methane activation. Catalysis Today, 2019, 338, 108-116.	4.4	20
83	Nitrogen-Decorated, Ordered Mesoporous Carbon Spheres as High-Efficient Catalysts for Selective Capture and Oxidation of H₂S. ACS Sustainable Chemistry and Engineering, 2019, 7, 7609-7618.	6.7	84
84	Ultrafast post-synthetic modification of a pillared cobalt(<scp>ii</scp>)-based metalâ€“organic framework via sulfurization of its pores for high-performance supercapacitors. Journal of Materials Chemistry A, 2019, 7, 11953-11966.	10.3	72
85	High population and dispersion of pentacoordinated AlV species on the surface of flame-made amorphous silica-alumina. Science Bulletin, 2019, 64, 516-523.	9.0	25
86	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
87	Thermodynamic and molecular insights into the absorption of H₂S, CO₂, and CH₄ in choline chloride plus urea mixtures. AIChE Journal, 2019, 65, e16574.	3.6	139
88	Roles of 8-ring and 12-ring channels in mordenite for carbonylation reaction: From the perspective of molecular adsorption and diffusion. Journal of Catalysis, 2019, 369, 335-344.	6.2	54
89	The influence of acid strength and pore size effect on propene elimination reaction over zeolites: A theoretical study. Microporous and Mesoporous Materials, 2019, 278, 121-129.	4.4	13
90	Acidâ€“base synergistic catalysis of biochar sulfonic acid bearing polyamide for microwave-assisted hydrolysis of cellulose in water. Cellulose, 2019, 26, 751-762.	4.9	22

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91	Inspecting the Structure and Formation of Molecular Sieve SAPO-34 via ¹⁷O Solid-State NMR Spectroscopy. Journal of Physical Chemistry C, 2018, 122, 7260-7277.	3.1	8
92	Fish-in-hole: rationally positioning palladium into traps of zeolite crystals for sinter-resistant catalysts. Chemical Communications, 2018, 54, 3274-3277.	4.1	36
93	Analyzing Gas Adsorption in an Amide-Functionalized Metal Organic Framework: Are the Carbonyl or Amine Groups Responsible?. Chemistry of Materials, 2018, 30, 3613-3617.	6.7	32
94	Identifying the effective phosphorous species over modified P-ZSM-5 zeolite: a theoretical study. Physical Chemistry Chemical Physics, 2018, 20, 11702-11712.	2.8	20
95	Lithium doping on 2D squaraine-bridged covalent organic polymers for enhancing adsorption properties: a theoretical study. Physical Chemistry Chemical Physics, 2018, 20, 6487-6499.	2.8	15
96	An Extraâ€Ł argeâ€Pore Zeolite with 24Ã—8Ã—8â€Ring Channels Using a Structureâ€Directing Agent Derived from Traditional Chinese Medicine. Angewandte Chemie, 2018, 130, 6596-6600.	2.0	13
97	Highly Efficient Indirect Hydration of Olefins to Alcohols Using Superacidic Polyoxometalate-Based Ionic Hybrids Catalysts. Industrial & Engineering Chemistry Research, 2018, 57, 6654-6663.	3.7	25
98	An Extraâ€Ł argeâ€Pore Zeolite with 24Ã—8Ã—8â€Ring Channels Using a Structureâ€Directing Agent Derived from Traditional Chinese Medicine. Angewandte Chemie - International Edition, 2018, 57, 6486-6490.	13.8	54
99	Two-dimensional graphitic C₃N₅ materials: promising metal-free catalysts and CO₂ adsorbents. Journal of Materials Chemistry A, 2018, 6, 7168-7174.	10.3	58
100	Hydrophobic Solid Acids and Their Catalytic Applications in Green and Sustainable Chemistry. ACS Catalysis, 2018, 8, 372-391.	11.2	200
101	Importance of Zeolite Wettability for Selective Hydrogenation of Furfural over Pd@Zeolite Catalysts. ACS Catalysis, 2018, 8, 474-481.	11.2	146
102	InnenrÃ¼cktitelbild: A Heterogeneous Metalâ€Free Catalyst for Hydrogenation: Lewis Acidâ€“Base Pairs Integrated into a Carbon Lattice (Angew. Chem. 42/2018). Angewandte Chemie, 2018, 130, 14131-14131.	2.0	0
103	A nonpolar solvent effect by CH/Ï€ interaction inside zeolites: characterization, mechanism and concept. Chemical Communications, 2018, 54, 13435-13438.	4.1	8
104	Pd@Zn-MOF-74: Restricting a Guest Molecule by the Open-Metal Site in a Metalâ€“Organic Framework for Selective Semihydrogenation. Inorganic Chemistry, 2018, 57, 12444-12447.	4.0	26
105	Rationally designing mixed Cuâ€“(Î¼-O)â€“M (M = Cu, Ag, Zn, Au) centers over zeolite materials with high catalytic activity towards methane activation. Physical Chemistry Chemical Physics, 2018, 20, 26522-26531.	2.8	24
106	To Be or Not To Be Protonated: cyclo-N₅^{â€“} in Crystal and Solvent. Journal of Physical Chemistry Letters, 2018, 9, 7137-7145.	4.6	12
107	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
108	Design Synthesis of ITE Zeolite Using Nickelâ€“Amine Complex as an Efficient Structure-Directing Agent. ACS Applied Materials & Interfaces, 2018, 10, 33214-33220.	8.0	9

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109	A porous BrÃ¸nsted superacid as an efficient and durable solid catalyst. Journal of Materials Chemistry A, 2018, 6, 18712-18719.	10.3	24
110	Gating Mechanism of Aquaporin Z in Synthetic Bilayers and Native Membranes Revealed by Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2018, 140, 7885-7895.	13.7	26
111	Porous organic materials with ultra-small pores and sulfonic functionality for xenon capture with exceptional selectivity. Journal of Materials Chemistry A, 2018, 6, 11163-11168.	10.3	47
112	BrÃ¸nsted/Lewis acid sites synergistically promote the initial Câ€“C bond formation in the MTO reaction. Chemical Science, 2018, 9, 6470-6479.	7.4	56
113	Origin and Structural Characteristics of Tri-coordinated Extra-framework Aluminum Species in Dealuminated Zeolites. Journal of the American Chemical Society, 2018, 140, 10764-10774.	13.7	113
114	Reaction Route and Mechanism of the Direct N-Alkylation of Sulfonamides on Acidic Mesoporous Zeolite Î²-Catalyst. ACS Catalysis, 2018, 8, 9043-9055.	11.2	25
115	A Heterogeneous Metalâ€Free Catalyst for Hydrogenation: Lewis Acidâ€“Base Pairs Integrated into a Carbon Lattice. Angewandte Chemie - International Edition, 2018, 57, 13800-13804.	13.8	64
116	A Heterogeneous Metalâ€Free Catalyst for Hydrogenation: Lewis Acidâ€“Base Pairs Integrated into a Carbon Lattice. Angewandte Chemie, 2018, 130, 13996-14000.	2.0	6
117	Solid-State NMR Characterization of Acidity of Solid Catalysts. , 2018, , 1049-1071.		1
118	A Molecular Ferroelectric Showing Roomâ€Temperature Recordâ€Fast Switching of Spontaneous Polarization. Angewandte Chemie, 2018, 130, 9981-9985.	2.0	13
119	A Molecular Ferroelectric Showing Roomâ€Temperature Recordâ€Fast Switching of Spontaneous Polarization. Angewandte Chemie - International Edition, 2018, 57, 9833-9837.	13.8	26
120	An NMR Scale for Measuring the Base Strength of Solid Catalysts with Pyrrole Probe: A Combined Solid-State NMR Experiment and Theoretical Calculation Study. Journal of Physical Chemistry C, 2017, 121, 3887-3895.	3.1	27
121	Sizable dynamics in small pores: CO₂location and motion in the Î±-Mg formate metalâ€“organic framework. Physical Chemistry Chemical Physics, 2017, 19, 6130-6141.	2.8	35
122	Significant Enhancement of C₂H₂/C₂H₄ Separation by a Photochromic Diarylethene Unit: A Temperatureâ€and Lightâ€Responsive Separation Switch. Angewandte Chemie - International Edition, 2017, 56, 7900-7906.	13.8	145
123	Direct Insight into Ethane Oxidative Dehydrogenation over Boron Nitrides. ChemCatChem, 2017, 9, 3293-3297.	3.7	112
124	External or internal surface of H-ZSM-5 zeolite, which is more effective for the Beckmann rearrangement reaction?. Catalysis Science and Technology, 2017, 7, 2512-2523.	4.1	26
125	Solid-state NMR Studies of Hostâ€“Guest Interaction between UiO-67 and Light Alkane at Room Temperature. Journal of Physical Chemistry C, 2017, 121, 14261-14268.	3.1	25
126	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

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127	Photoswitching storage of guest molecules in metalâ€“organic framework for photoswitchable catalysis: exceptional product, ultrahigh photocontrol, and photomodulated size selectivity. Journal of Materials Chemistry A, 2017, 5, 7961-7967.	10.3	34
128	Photoswitching adsorption selectivity in a diarylethene–azobenzene MOF. Chemical Communications, 2017, 53, 763-766.	4.1	80
129	³¹P NMR Chemical Shifts of Phosphorus Probes as Reliable and Practical Acidity Scales for Solid and Liquid Catalysts. Chemical Reviews, 2017, 117, 12475-12531.	47.7	258
130	Diffusion Dependence of the Dual-Cycle Mechanism for MTO Reaction Inside ZSM-12 and ZSM-22 Zeolites. Journal of Physical Chemistry C, 2017, 121, 22872-22882.	3.1	50
131	Mass Transfer Advantage of Hierarchical Zeolites Promotes Methanol Converting into para-Methyl Group in Toluene Methylation. Industrial & Engineering Chemistry Research, 2017, 56, 9310-9321.	3.7	35
132	Solvent Effect Inside the Nanocage of Zeolite Catalysts: A Combined Solid-State NMR Approach and Multiscale Simulation. Journal of Physical Chemistry C, 2017, 121, 16921-16931.	3.1	8
133	Effective transformation of cellulose to 5-hydroxymethylfurfural catalyzed by fluorine anion-containing ionic liquid modified biochar sulfonic acids in water. Cellulose, 2017, 24, 95-106.	4.9	35
134	Zirconium Oxide Supported Palladium Nanoparticles as a Highly Efficient Catalyst in the Hydrogenation–Amination of Levulinic Acid to Pyrrolidones. ChemCatChem, 2017, 9, 2661-2667.	3.7	59
135	Solid-State NMR Characterization of the Structure and Catalytic Reaction Mechanism of Solid Acid Catalysts. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2017, 33, 270-282.	4.9	4
136	Anionic Clusters Enhanced Catalytic Performance of Protic Acid Ionic Liquids for Isobutane Alkylation. Industrial & Engineering Chemistry Research, 2016, 55, 8271-8280.	3.7	31
137	Insight into the formation of the tert-butyl cation confined inside H-ZSM-5 zeolite from NMR spectroscopy and DFT calculations. Chemical Communications, 2016, 52, 10606-10608.	4.1	29
138	Mechanism of alkane H/D exchange over zeolite H-ZSM-5 at low temperature: a combined computational and experimental study. Catalysis Science and Technology, 2016, 6, 5350-5363.	4.1	18
139	Effects of Cellulose, Hemicellulose, and Lignin on the Structure and Morphology of Porous Carbons. ACS Sustainable Chemistry and Engineering, 2016, 4, 3750-3756.	6.7	261
140	Methanol carbonylation over copper-modified mordenite zeolite: A solid-state NMR study. Solid State Nuclear Magnetic Resonance, 2016, 80, 1-6.	2.3	26
141	Design and synthesis of micro–meso–macroporous polymers with versatile active sites and excellent activities in the production of biofuels and fine chemicals. Green Chemistry, 2016, 18, 6536-6544.	9.0	30
142	Rational Design of Zirconium€doped Titania Photocatalysts with Synergistic BrÃ¸nsted Acidity and Photoactivity. ChemSusChem, 2016, 9, 2759-2764.	6.8	4
143	Ordered Mesoporous Polymers for Biomass Conversions and Cross€Coupling Reactions. ChemSusChem, 2016, 9, 2496-2504.	6.8	27
144	Origin of Zeolite Confinement Revisited by Energy Decomposition Analysis. Journal of Physical Chemistry C, 2016, 120, 27349-27363.	3.1	12

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145	Unravelling the Efficient Photocatalytic Activity of Boron-induced Ti3+ Species in the Surface Layer of TiO2. Scientific Reports, 2016, 6, 34765.	3.3	53
146	Conjugated polymers with defined chemical structure as model carbon catalysts for nitro reduction. RSC Advances, 2016, 6, 99570-99576.	3.6	7
147	Interconnected hierarchical HUSY zeolite-loaded Ni nano-particles probed for hydrodeoxygenation of fatty acids, fatty esters, and palm oil. Journal of Materials Chemistry A, 2016, 4, 11330-11341.	10.3	51
148	Insights into the reaction mechanism of propene H/D exchange over acidic zeolite catalysts from theoretical calculations. Catalysis Science and Technology, 2016, 6, 6328-6338.	4.1	9
149	Influences of the confinement effect and acid strength of zeolite on the mechanisms of Methanol-to-Olefins conversion over H-ZSM-5: A theoretical study of alkenes-based cycle. Microporous and Mesoporous Materials, 2016, 231, 216-229.	4.4	30
150	Methanol to hydrocarbons reaction over HÎ² zeolites studied by high resolution solid-state NMR spectroscopy: Carbenium ions formation and reaction mechanism. Journal of Catalysis, 2016, 335, 47-57.	6.2	57
151	Tristable data storage device of soluble polyimides based on novel asymmetrical diamines containing carbazole. Polymer Chemistry, 2016, 7, 1765-1772.	3.9	24
152	A novel recognition mechanism supported by experiment and theoretical calculation for hypochlorites recognition and its practical application. Sensors and Actuators B: Chemical, 2016, 224, 307-314.	7.8	47
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