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	BrÃ¸nsted/Lewis Acid Synergy in Dealuminated HY Zeolite:â€‰ A Combined Solid-State NMR and Theoretical Calculation Study. Journal of the American Chemical Society, 2007, 129, 11161-11171.	13.7	349
2	Dependence of electronic structure of g-C 3 N 4 on the layer number of its nanosheets: A study by Raman spectroscopy coupled with first-principles calculations. Carbon, 2014, 80, 213-221.	10.3	331
3	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
4	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
5	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
6	Understanding the High Photocatalytic Activity of (B, Ag)-Codoped TiO₂ under Solar-Light Irradiation with XPS, Solid-State NMR, and DFT Calculations. Journal of the American Chemical Society, 2013, 135, 1607-1616.	13.7	230
7	2D and 3D Porphyrinic Covalent Organic Frameworks: The Influence of Dimensionality on Functionality. Angewandte Chemie - International Edition, 2020, 59, 3624-3629.	13.8	227
8	Acid properties of solid acid catalysts characterized by solid-state 31P NMR of adsorbed phosphorous probe molecules. Physical Chemistry Chemical Physics, 2011, 13, 14889.	2.8	204
9	Hydrophobic Solid Acids and Their Catalytic Applications in Green and Sustainable Chemistry. ACS Catalysis, 2018, 8, 372-391.	11.2	200
10	Direct Observation of Cyclic Carbenium Ions and Their Role in the Catalytic Cycle of the Methanolâ€toâ€Olefin Reaction over Chabazite Zeolites. Angewandte Chemie - International Edition, 2013, 52, 11564-11568.	13.8	193
11	Acidic Properties and Structureâ€“Activity Correlations of Solid Acid Catalysts Revealed by Solid-State NMR Spectroscopy. Accounts of Chemical Research, 2016, 49, 655-663.	15.6	177
12	Insights into the Dealumination of Zeoliteâ€…HY Revealed by Sensitivityâ€Enhanced ²⁷Al DQâ€MAS NMR Spectroscopy at High Field. Angewandte Chemie - International Edition, 2010, 49, 8657-8661.	13.8	173
13	Catalytic dehydration of ethanol over post-treated ZSM-5 zeolites. Journal of Catalysis, 2014, 312, 204-215.	6.2	171
14	Boron Environments in B-Doped and (B, N)-Codoped TiO₂ Photocatalysts: A Combined Solid-State NMR and Theoretical Calculation Study. Journal of Physical Chemistry C, 2011, 115, 2709-2719.	3.1	164
15	Comprehensive investigation of CO2 adsorption on Mgâ€“Alâ€“CO3 LDH-derived mixed metal oxides. Journal of Materials Chemistry A, 2013, 1, 12782.	10.3	164
16	Room temperature activation of methane over Zn modified H-ZSM-5 zeolites: Insight from solid-state NMR and theoretical calculations. Chemical Science, 2012, 3, 2932.	7.4	157
17	Isolated boron in zeolite for oxidative dehydrogenation of propane. Science, 2021, 372, 76-80.	12.6	155
18	BrÃ¸nsted/Lewis Acid Synergy in Hâ€“ZSM-5 and Hâ€“MOR Zeolites Studied by ¹H and ²⁷Al DQ-MAS Solid-State NMR Spectroscopy. Journal of Physical Chemistry C, 2011, 115, 22320-22327.	3.1	147

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19	Mesoporous ZSM-5 Zeolite-Supported Ru Nanoparticles as Highly Efficient Catalysts for Upgrading Phenolic Biomolecules. ACS Catalysis, 2015, 5, 2727-2734.	11.2	147
20	Importance of Zeolite Wettability for Selective Hydrogenation of Furfural over Pd@Zeolite Catalysts. ACS Catalysis, 2018, 8, 474-481.	11.2	146
21	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
22	Theoretical Predictions of ³¹P NMR Chemical Shift Threshold of Trimethylphosphine Oxide Absorbed on Solid Acid Catalysts. Journal of Physical Chemistry B, 2008, 112, 4496-4505.	2.6	143
23	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
24	Insights into the Dual Activation Mechanism Involving Bifunctional Cinchona Alkaloid Thiourea Organocatalysts: An NMR and DFT Study. Journal of Organic Chemistry, 2012, 77, 9813-9825.	3.2	136
25	New Insight into the Hydrocarbonâ€Pool Chemistry of the Methanolâ€toâ€Olefins Conversion over Zeolite Hâ€ZSMâ€5 from GCâ€MS, Solidâ€State NMR Spectroscopy, and DFT Calculations. Chemistry - A European Journal, 2014, 20, 12432-12443.	3.3	131
26	Location, Acid Strength, and Mobility of the Acidic Protons in Keggin 12-H3PW12O40:â€‰ A Combined Solid-State NMR Spectroscopy and DFT Quantum Chemical Calculation Study. Journal of the American Chemical Society, 2005, 127, 18274-18280.	13.7	130
27	Thin-film composite membrane breaking the trade-off between conductivity and selectivity for a flow battery. Nature Communications, 2020, 11, 13.	12.8	127
28	Au-NHC@Porous Organic Polymers: Synthetic Control and Its Catalytic Application in Alkyne Hydration Reactions. ACS Catalysis, 2014, 4, 321-327.	11.2	124
29	Selective Catalytic Production of 5â€Hydroxymethylfurfural from Glucose by Adjusting Catalyst Wettability. ChemSusChem, 2014, 7, 402-406.	6.8	119
30	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
31	Direct Insight into Ethane Oxidative Dehydrogenation over Boron Nitrides. ChemCatChem, 2017, 9, 3293-3297.	3.7	112
32	Probing the Spatial Proximities among Acid Sites in Dealuminated H-Y Zeolite by Solid-State NMR Spectroscopy. Journal of Physical Chemistry C, 2008, 112, 14486-14494.	3.1	105
33	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
34	Acidic Strengths of BrÃ¸nsted and Lewis Acid Sites in Solid Acids Scaled by ³¹P NMR Chemical Shifts of Adsorbed Trimethylphosphine. Journal of Physical Chemistry C, 2011, 115, 7660-7667.	3.1	104
35	Mechanism of Myo-inositol Hexakisphosphate Sorption on Amorphous Aluminum Hydroxide: Spectroscopic Evidence for Rapid Surface Precipitation. Environmental Science & Technology, 2014, 48, 6735-6742.	10.0	103
36	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

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37	Influence of Acid Strength and Confinement Effect on the Ethylene Dimerization Reaction over Solid Acid Catalysts: A Theoretical Calculation Study. Journal of Physical Chemistry C, 2012, 116, 12687-12695.	3.1	96
38	Layered double hydroxide membrane with high hydroxide conductivity and ion selectivity for energy storage device. Nature Communications, 2021, 12, 3409.	12.8	94
39	³¹P Chemical Shift of Adsorbed Trialkylphosphine Oxides for Acidity Characterization of Solid Acids Catalysts. Journal of Physical Chemistry A, 2008, 112, 7349-7356.	2.5	92
40	Extra-framework aluminium species in hydrated faujasite zeolite as investigated by two-dimensional solid-state NMR spectroscopy and theoretical calculations. Physical Chemistry Chemical Physics, 2010, 12, 3895.	2.8	92
41	Micro/nano-structured graphitic carbon nitrideâ€“Ag nanoparticle hybrids as surface-enhanced Raman scattering substrates with much improved long-term stability. Carbon, 2015, 87, 193-205.	10.3	86
42	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
43	Theoretical Investigation of the Effects of the Zeolite Framework on the Stability of Carbenium Ions. Journal of Physical Chemistry C, 2011, 115, 7429-7439.	3.1	83
44	Thiolâ€“chromene click chemistry: A coumarin-based derivative and its use as regenerable thiol probe and in bioimaging applications. Biosensors and Bioelectronics, 2013, 47, 300-306.	10.1	83
45	Relationship Between 1H Chemical Shifts of Deuterated Pyridinium Ions and BrÃ¸nsted Acid Strength of Solid Acids. Journal of Physical Chemistry B, 2007, 111, 3085-3089.	2.6	82
46	Combined DFT Theoretical Calculation and Solid-State NMR Studies of Al Substitution and Acid Sites in Zeolite MCM-22. Journal of Physical Chemistry B, 2005, 109, 24273-24279.	2.6	80
47	Photoswitching adsorption selectivity in a diaryletheneâ€“azobenzene MOF. Chemical Communications, 2017, 53, 763-766.	4.1	80
48	One-pot template-free synthesis, growth mechanism and enhanced photocatalytic activity of monodisperse (BiO)2CO3 hierarchical hollow microspheres self-assembled with single-crystalline nanosheets. CrystEngComm, 2012, 14, 3534.	2.6	79
49	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
50	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
51	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
52	Acidity of Mesoporous MoOx/ZrO2and WOx/ZrO2Materials:Â A Combined Solid-State NMR and Theoretical Calculation Study. Journal of Physical Chemistry B, 2006, 110, 10662-10671.	2.6	70
53	Molecular elucidating of an unusual growth mechanism for polycyclic aromatic hydrocarbons in confined space. Nature Communications, 2020, 11, 1079.	12.8	70
54	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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55	¹³C Chemical Shift of Adsorbed Acetone for Measuring the Acid Strength of Solid Acids: A Theoretical Calculation Study. Journal of Physical Chemistry C, 2010, 114, 12711-12718.	3.1	67
56	Efficient biomass transformations catalyzed by graphene-like nanoporous carbons functionalized with strong acid ionic liquids and sulfonic groups. Green Chemistry, 2015, 17, 480-489.	9.0	64
57	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
58	Identification of tertâ€Butyl Cations in Zeolite Hâ€ZSMâ€5: Evidence from NMR Spectroscopy and DFT Calculations. Angewandte Chemie - International Edition, 2015, 54, 8783-8786.	13.8	63
59	Acidity characterization of heterogeneous catalysts by solid-state NMR spectroscopy using probe molecules. Solid State Nuclear Magnetic Resonance, 2013, 55-56, 12-27.	2.3	62
60	Experimental Evidence on the Formation of Ethene through Carbocations in Methanol Conversion over Hâ€ZSMâ€5 Zeolite. Chemistry - A European Journal, 2015, 21, 12061-12068.	3.3	62
61	In situ imaging of the sorption-induced subcell topological flexibility of a rigid zeolite framework. Science, 2022, 376, 491-496.	12.6	62
62	¹⁹F Chemical Shift of Crystalline Metal Fluorides: Theoretical Predictions Based on Periodic Structure Models. Journal of Physical Chemistry C, 2009, 113, 15018-15023.	3.1	61
63	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
64	Molecular Routes of Dynamic Autocatalysis for Methanol-to-Hydrocarbons Reaction. Journal of the American Chemical Society, 2021, 143, 12038-12052.	13.7	60
65	Synthesis and memory characteristics of polyimides containing noncoplanar aryl pendant groups. Polymer, 2012, 53, 229-240.	3.8	59
66	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
67	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
68	Differentiating Surface Ce Species among CeO₂ Facets by Solid-State NMR for Catalytic Correlation. ACS Catalysis, 2020, 10, 4003-4011.	11.2	59
69	Combined spectral experiment and theoretical calculation to study the chemosensors of copper and their applications in anion bioimaging. Sensors and Actuators B: Chemical, 2013, 177, 1189-1197.	7.8	58
70	Two-dimensional graphitic C₃N₅ materials: promising metal-free catalysts and CO₂ adsorbents. Journal of Materials Chemistry A, 2018, 6, 7168-7174.	10.3	58
71	Methanol to Olefins Reaction Route Based on Methylcyclopentadienes as Critical Intermediates. ACS Catalysis, 2019, 9, 7373-7379.	11.2	58
72	Combined Solid-State NMR and Theoretical Calculation Studies of BrÃ¸nsted Acid Properties in Anhydrous 12-Molybdophosphoric Acid. Journal of Physical Chemistry C, 2010, 114, 15464-15472.	3.1	57

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73	Phosphotungstic acid loaded on hydrophilic ionic liquid modified SBA-15 for selective oxidation of alcohols with aqueous H2O2. Microporous and Mesoporous Materials, 2012, 158, 77-87.	4.4	57
74	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
75	Spies Within Metal-Organic Frameworks: Investigating Metal Centers Using Solid-State NMR. Journal of Physical Chemistry C, 2014, 118, 23728-23744.	3.1	56
76	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
77	Post-synthesis, characterization and catalytic properties of fluorine-planted MWW-type titanosilicate. Physical Chemistry Chemical Physics, 2013, 15, 4930.	2.8	55
78	Nonvolatile memory devices based on polyimides bearing noncoplanar twisted biphenyl units containing carbazole and triphenylamine side-chain groups. Journal of Materials Chemistry, 2011, 21, 15643.	6.7	54
79	An Extraâ€Largeâ€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
80	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
81	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
82	Depolymerization of crystalline cellulose catalyzed by acidic ionic liquids grafted onto sponge-like nanoporous polymers. Chemical Communications, 2013, 49, 8456.	4.1	53
83	Unravelling the Efficient Photocatalytic Activity of Boron-induced Ti3+ Species in the Surface Layer of TiO2. Scientific Reports, 2016, 6, 34765.	3.3	53
84	Origin of weak Lewis acids on silanol nests in dealuminated zeolite Beta. Journal of Catalysis, 2019, 380, 204-214.	6.2	53
85	Graphene activated 3D-hierarchical flower-like Li₂FeSiO₄ for high-performance lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 16567-16573.	10.3	52
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	Slight channel difference influences the reaction pathway of methanol-to-olefins conversion over acidic H-ZSM-22 and H-ZSM-12 zeolites. Catalysis Science and Technology, 2015, 5, 3507-3517.	4.1	51
88	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
89	Fischerâ€“Tropsch synthesis to olefins boosted by MFI zeolite nanosheets. Nature Nanotechnology, 2022, 17, 714-720.	31.5	51
90	Fluorine-planted titanosilicate with enhanced catalytic activity in alkene epoxidation with hydrogen peroxide. Catalysis Science and Technology, 2012, 2, 2433.	4.1	50

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91	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
92	Reactivity Enhancement of 2-Propanol Photocatalysis on SO₄^{2â^'}/TiO₂: Insights from Solid-State NMR Spectroscopy. Environmental Science & Technology, 2008, 42, 5316-5321.	10.0	49
93	Interaction between Histidine and Zn(II) Metal Ions over a Wide pH as Revealed by Solid-State NMR Spectroscopy and DFT Calculations. Journal of Physical Chemistry B, 2013, 117, 8954-8965.	2.6	48
94	Tuning the pore structure of plug-containing Al-SBA-15 by post-treatment and its selectivity for C16 olefin in ethylene oligomerization. Microporous and Mesoporous Materials, 2014, 184, 151-161.	4.4	47
95	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
96	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
97	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
98	Mapping Out Chemically Similar, Crystallographically Nonequivalent Hydrogen Sites in Metalâ€“Organic Frameworks by ¹H Solid-State NMR Spectroscopy. Chemistry of Materials, 2015, 27, 3306-3316.	6.7	46
99	Removal and safe reuse of highly toxic allyl alcohol using a highly selective photo-sensitive metalâ€“organic framework. Green Chemistry, 2016, 18, 2047-2055.	9.0	46
100	Cavity-controlled diffusion in 8-membered ring molecular sieve catalysts for shape selective strategy. Journal of Catalysis, 2019, 377, 51-62.	6.2	45
101	Molecular Understanding of the Catalytic Consequence of Ketene Intermediates under Confinement. Journal of the American Chemical Society, 2021, 143, 15440-15452.	13.7	45
102	Pore Selectivity for Olefin Protonation Reactions Confined inside Mordenite Zeolite: A Theoretical Calculation Study. Journal of Physical Chemistry C, 2013, 117, 2194-2202.	3.1	43
103	New Insights into Keggināâ€Type 12â€Tungstophosphoric Acid from ³¹P MAS NMR Analysis of Absorbed Trimethylphosphine Oxide and DFT Calculations. Chemistry - an Asian Journal, 2011, 6, 137-148.	3.3	42
104	New Insights into the Effects of Acid Strength on the Solid Acid-Catalyzed Reaction: Theoretical Calculation Study of Olefinic Hydrocarbon Protonation Reaction. Journal of Physical Chemistry C, 2010, 114, 10254-10264.	3.1	41
105	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
106	Influence of acid strength on the reactivity of alkane activation on solid acid catalysts: A theoretical calculation study. Microporous and Mesoporous Materials, 2012, 151, 241-249.	4.4	39
107	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
108	Chemoselectivity during propene hydrogenation reaction over H-ZSM-5 zeolite: Insights from theoretical calculations. Microporous and Mesoporous Materials, 2009, 121, 158-165.	4.4	38

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109	Polyoxometalate-based ionic complexes immobilized in mesoporous silicas prepared via a one-pot procedure: Efficient and reusable catalysts for H2O2-mediated alcohol oxidations in aqueous media. Microporous and Mesoporous Materials, 2013, 172, 67-76.	4.4	38
110	Highly nitrogen-doped mesoscopic carbons as efficient metal-free electrocatalysts for oxygen reduction reactions. Journal of Materials Chemistry A, 2014, 2, 20030-20037.	10.3	37
111	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
112	Identification of Three Novel Polyphenolic Compounds, Origanine Aâ€“C, with Unique Skeleton from Origanum vulgare L. Using the Hyphenated LC-DAD-SPE-NMR/MS Methods. Journal of Agricultural and Food Chemistry, 2012, 60, 129-135.	5.2	36
113	A single Au nanoparticle anchored inside the porous shell of periodic mesoporous organosilica hollow spheres. Nano Research, 2015, 8, 3404-3411.	10.4	36
114	Fish-in-hole: rationally positioning palladium into traps of zeolite crystals for sinter-resistant catalysts. Chemical Communications, 2018, 54, 3274-3277.	4.1	36
115	Carbocation chemistry confined in zeolites: spectroscopic and theoretical characterizations. Chemical Society Reviews, 2022, 51, 4337-4385.	38.1	36
116	Enhancement of BrÃ¸nsted acidity in zeolitic catalysts due to an intermolecular solvent effect in confined micropores. Chemical Communications, 2012, 48, 6936.	4.1	35
117	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
118	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
119	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
120	From One to Two: Acidic Proton Spatial Networks in Porous Zeolite Materials. Chemistry of Materials, 2020, 32, 1332-1342.	6.7	35
121	Promising long-lasting phosphor material: a novel metalâ€“organic framework showing intriguing luminescent performance. Dalton Transactions, 2012, 41, 13280.	3.3	34
122	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
123	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
124	Effect of coking and propylene adsorption on enhanced stability for Co2+-catalyzed propane dehydrogenation. Journal of Catalysis, 2021, 395, 105-116.	6.2	34
125	Progress in development and application of solid-state NMR for solid acid catalysis. Chinese Journal of Catalysis, 2013, 34, 436-491.	14.0	33
126	Size-dependent sorption of myo-inositol hexakisphosphate and orthophosphate on nano-Î³-Al2O3. Journal of Colloid and Interface Science, 2015, 451, 85-92.	9.4	33

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127	Strong or weak acid, which is more efficient for Beckmann rearrangement reaction over solid acid catalysts?. Catalysis Science and Technology, 2015, 5, 3675-3681.	4.1	32
128	Template-free synthesis of porous carbonaceous solid acids with controllable acid sites and their excellent activity for catalyzing the synthesis of biofuels and fine chemicals. Catalysis Science and Technology, 2016, 6, 2995-3007.	4.1	32
129	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
130	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
131	Simultaneous Evaluation of Reaction and Diffusion over Molecular Sieves for Shape-Selective Catalysis. ACS Catalysis, 2020, 10, 8727-8735.	11.2	32
132	Formation, Location, and Photocatalytic Reactivity of Methoxy Species on Keggin 12-H₃PW₁₂O₄₀: A Joint Solid-State NMR Spectroscopy and DFT Calculation Study. Journal of Physical Chemistry C, 2008, 112, 15765-15770.	3.1	31
133	Hostâ€“Guest Interactions in Dealuminated HY Zeolite Probed by ¹³Câ€“²⁷Al Solid-State NMR Spectroscopy. Journal of Physical Chemistry Letters, 2014, 5, 3068-3072.	4.6	31
134	Anionic Clusters Enhanced Catalytic Performance of Protic Acid Ionic Liquids for Isobutane Alkylation. Industrial & Engineering Chemistry Research, 2016, 55, 8271-8280.	3.7	31
135	Design and synthesis of microâ€“mesoâ€“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
136	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
137	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
138	BrÃ¶nsted and Lewis Acidity of the BF3/Î³-Al2O3Alkylation Catalyst as Revealed by Solid-State NMR Spectroscopy and DFT Quantum Chemical Calculations. Journal of Physical Chemistry B, 2005, 109, 13124-13131.	2.6	29
139	¹³C shielding tensors of crystalline amino acids and peptides: Theoretical predictions based on periodic structure models. Journal of Computational Chemistry, 2009, 30, 222-235.	3.3	29
140	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
141	Prediction of the 13C NMR chemical shifts of organic species adsorbed on H-ZSM-5 zeolite by the ONIOM-GIAO method. Chemical Communications, 2005, , 2474.	4.1	28
142	Significant photocatalytic activity enhancement of titania inverse opals by anionic impurities removal in dye molecule degradation. Applied Catalysis B: Environmental, 2013, 138-139, 219-228.	20.2	28
143	Direct observation of methylcyclopentenyl cations (MCP⁺) and olefin generation in methanol conversion over TON zeolite. Catalysis Science and Technology, 2016, 6, 89-97.	4.1	28
144	13C NMR shielding tensors of carboxyl carbon in amino acids calculated by ONIOM method. Chemical Physics Letters, 2004, 399, 172-176.	2.6	27

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145	DFT studies on the reaction mechanism of cross-metathesis of ethylene and 2-butylene to propylene over heterogeneous Mo/HBeta catalyst. Journal of Molecular Catalysis A, 2010, 330, 99-106.	4.8	27
146	Ordered Mesoporous Polymers for Biomass Conversions and Crossâ€Coupling Reactions. ChemSusChem, 2016, 9, 2496-2504.	6.8	27
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