

Feng Deng

List of Publications by Year in descending order

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papers

10,991
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20817

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docs citations

227
times ranked

8428
citing authors

#	ARTICLE	IF	CITATIONS
1	Brønsted/Lewis Acid Synergy in Dealuminated HY Zeolite: A Combined Solid-State NMR and Theoretical Calculation Study. <i>Journal of the American Chemical Society</i> , 2007, 129, 11161-11171.	13.7	349
2	Roles for Cyclopentenyl Cations in the Synthesis of Hydrocarbons from Methanol on Zeolite Catalyst HZSM-5. <i>Journal of the American Chemical Society</i> , 2000, 122, 4763-4775.	13.7	296
3	Highly Efficient Heterogeneous Hydroformylation over Rh-Metalated Porous Organic Polymers: Synergistic Effect of High Ligand Concentration and Flexible Framework. <i>Journal of the American Chemical Society</i> , 2015, 137, 5204-5209.	13.7	292
4	³¹ P NMR Chemical Shifts of Phosphorus Probes as Reliable and Practical Acidity Scales for Solid and Liquid Catalysts. <i>Chemical Reviews</i> , 2017, 117, 12475-12531.	47.7	258
5	Sustainable Synthesis of Zeolites without Addition of Both Organotemplates and Solvents. <i>Journal of the American Chemical Society</i> , 2014, 136, 4019-4025.	13.7	233
6	Understanding the High Photocatalytic Activity of (B, Ag)-Codoped TiO ₂ under Solar-Light Irradiation with XPS, Solid-State NMR, and DFT Calculations. <i>Journal of the American Chemical Society</i> , 2013, 135, 1607-1616.	13.7	230
7	Acid properties of solid acid catalysts characterized by solid-state ³¹ P NMR of adsorbed phosphorous probe molecules. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 14889.	2.8	204
8	Direct Observation of Cyclic Carbenium Ions and Their Role in the Catalytic Cycle of the Methanol-to-Olefin Reaction over Chabazite Zeolites. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11564-11568.	13.8	193
9	Acidic Properties and Structure-Activity Correlations of Solid Acid Catalysts Revealed by Solid-State NMR Spectroscopy. <i>Accounts of Chemical Research</i> , 2016, 49, 655-663.	15.6	177
10	Insights into the Dealumination of Zeolite-HY Revealed by Sensitivity-Enhanced ²⁷ Al DQ-MAS NMR Spectroscopy at High Field. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8657-8661.	13.8	173
11	Boron Environments in B-Doped and (B, N)-Codoped TiO ₂ Photocatalysts: A Combined Solid-State NMR and Theoretical Calculation Study. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2709-2719.	3.1	164
12	Room temperature activation of methane over Zn modified H-ZSM-5 zeolites: Insight from solid-state NMR and theoretical calculations. <i>Chemical Science</i> , 2012, 3, 2932.	7.4	157
13	Brønsted/Lewis Acid Synergy in H-ZSM-5 and H-MOR Zeolites Studied by ¹ H and ²⁷ Al DQ-MAS Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22320-22327.	3.1	147
14	Mesoporous ZSM-5 Zeolite-Supported Ru Nanoparticles as Highly Efficient Catalysts for Upgrading Phenolic Biomolecules. <i>ACS Catalysis</i> , 2015, 5, 2727-2734.	11.2	147
15	Theoretical Predictions of ³¹ P NMR Chemical Shift Threshold of Trimethylphosphine Oxide Adsorbed on Solid Acid Catalysts. <i>Journal of Physical Chemistry B</i> , 2008, 112, 4496-4505.	2.6	143
16	New Insight into the Hydrocarbon Pool Chemistry of the Methanol-to-Olefins Conversion over Zeolite H-ZSM-5 from GC-MS, Solid-State NMR Spectroscopy, and DFT Calculations. <i>Chemistry - A European Journal</i> , 2014, 20, 12432-12443.	3.3	131
17	Efficient and selective photocatalytic CH ₄ conversion to CH ₃ OH with O ₂ by controlling overoxidation on TiO ₂ . <i>Nature Communications</i> , 2021, 12, 4652.	12.8	131
18	Location, Acid Strength, and Mobility of the Acidic Protons in Keggin 12-H ₃ PW ₁₂ O ₄₀ : A Combined Solid-State NMR Spectroscopy and DFT Quantum Chemical Calculation Study. <i>Journal of the American Chemical Society</i> , 2005, 127, 18274-18280.	13.7	130

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19	Measurement of hetero-nuclear distances using a symmetry-based pulse sequence in solid-state NMR. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 9395.	2.8	120
20	A defect-based strategy for the preparation of mesoporous zeolite Y for high-performance catalytic cracking. <i>Journal of Catalysis</i> , 2013, 298, 102-111.	6.2	120
21	Hydrothermal treatment on ZSM-5 extrudates catalyst for methanol to propylene reaction: Finely tuning the acidic property. <i>Fuel Processing Technology</i> , 2015, 129, 130-138.	7.2	112
22	Acid sites in mesoporous Al-SBA-15 material as revealed by solid-state NMR spectroscopy. <i>Microporous and Mesoporous Materials</i> , 2006, 92, 22-30.	4.4	110
23	Brønsted/Lewis Acid Synergy in Methanol-to-Aromatics Conversion on Ga-Modified ZSM-5 Zeolites, As Studied by Solid-State NMR Spectroscopy. <i>ACS Catalysis</i> , 2018, 8, 69-74.	11.2	107
24	Metal Active Sites and Their Catalytic Functions in Zeolites: Insights from Solid-State NMR Spectroscopy. <i>Accounts of Chemical Research</i> , 2019, 52, 2179-2189.	15.6	106
25	Probing the Spatial Proximities among Acid Sites in Dealuminated H-Y Zeolite by Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2008, 112, 14486-14494.	3.1	105
26	Acidic Strengths of Brønsted and Lewis Acid Sites in Solid Acids Scaled by ³¹ P NMR Chemical Shifts of Adsorbed Trimethylphosphine. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7660-7667.	3.1	104
27	In situ growth-etching approach to the preparation of hierarchically macroporous zeolites with high MTO catalytic activity and selectivity. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17994-18004.	10.3	102
28	Conformation of Surfactant Molecules in the Interlayer of Montmorillonite Studied by ¹³ C MAS NMR. <i>Clays and Clay Minerals</i> , 2004, 52, 350-356.	1.3	100
29	A Mechanistic Study of Methanol-to-Aromatics Reaction over Ga-Modified ZSM-5 Zeolites: Understanding the Dehydrogenation Process. <i>ACS Catalysis</i> , 2018, 8, 9809-9820.	11.2	100
30	Insight into Dimethyl Ether Carbonylation Reaction over Mordenite Zeolite from in-Situ Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5840-5847.	3.1	98
31	High performance nanosheet-like silicoaluminophosphate molecular sieves: synthesis, 3D EDT structural analysis and MTO catalytic studies. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17828-17839.	10.3	96
32	Transfer Channel of Photoinduced Holes on a TiO ₂ Surface As Revealed by Solid-State Nuclear Magnetic Resonance and Electron Spin Resonance Spectroscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 10020-10028.	13.7	96
33	Au-ZSM-5 catalyses the selective oxidation of CH ₄ to CH ₃ OH and CH ₃ COOH using O ₂ . <i>Nature Catalysis</i> , 2022, 5, 45-54.	34.4	95
34	A Hierarchical Bipyridine-Constructed Framework for Highly Efficient Carbon Dioxide Capture and Catalytic Conversion. <i>ChemSusChem</i> , 2017, 10, 1186-1192.	6.8	94
35	MAS NMR Studies on the Dealumination of Zeolite MCM-22. <i>Journal of Physical Chemistry B</i> , 2001, 105, 1770-1779.	2.6	92
36	³¹ P Chemical Shift of Adsorbed Trialkylphosphine Oxides for Acidity Characterization of Solid Acids Catalysts. <i>Journal of Physical Chemistry A</i> , 2008, 112, 7349-7356.	2.5	92

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37	Inorganic molecular imprinted titanium dioxide photocatalyst: synthesis, characterization and its application for efficient and selective degradation of phthalate esters. <i>Journal of Materials Chemistry</i> , 2009, 19, 4843.	6.7	92
38	Understanding Surface and Interfacial Chemistry in Functional Nanomaterials via Solid-State NMR. <i>Advanced Materials</i> , 2017, 29, 1605895.	21.0	91
39	Beyond the Thermal Equilibrium Limit of Ammonia Synthesis with Dual Temperature Zone Catalyst Powered by Solar Light. <i>CheM</i> , 2019, 5, 2702-2717.	11.7	91
40	Hydrogen Spillover to Oxygen Vacancy of TiO ₂ /H ₂ /Fe: Breaking the Scaling Relationship of Ammonia Synthesis. <i>Journal of the American Chemical Society</i> , 2020, 142, 17403-17412.	13.7	91
41	Methylbenzene hydrocarbon pool in methanol-to-olefins conversion over zeolite H-ZSM-5. <i>Journal of Catalysis</i> , 2015, 332, 127-137.	6.2	88
42	Self-Assembly of Cetyltrimethylammonium Bromide and Lamellar Zeolite Precursor for the Preparation of Hierarchical MWW Zeolite. <i>Chemistry of Materials</i> , 2016, 28, 4512-4521.	6.7	88
43	Extra-Framework Aluminum-Assisted Initial C-C Bond Formation in Methanol-to-Olefins Conversion on Zeolite H-ZSM-5. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10197-10201.	13.8	86
44	NMR Spectroscopic Evidence of Intermediate-Dependent Pathways for Acetic Acid Formation from Methane and Carbon Monoxide over a ZnZSM-5 Zeolite Catalyst. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3850-3853.	13.8	84
45	Theoretical Investigation of the Effects of the Zeolite Framework on the Stability of Carbenium Ions. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7429-7439.	3.1	83
46	Relationship Between ¹ H Chemical Shifts of Deuterated Pyridinium Ions and Brønsted Acid Strength of Solid Acids. <i>Journal of Physical Chemistry B</i> , 2007, 111, 3085-3089.	2.6	82
47	Indirect Detection via Spin-1/2 Nuclei in Solid State NMR Spectroscopy: Application to the Observation of Proximities between Protons and Quadrupolar Nuclei. <i>Journal of Physical Chemistry A</i> , 2009, 113, 12864-12878.	2.5	81
48	Combined DFT Theoretical Calculation and Solid-State NMR Studies of Al Substitution and Acid Sites in Zeolite MCM-22. <i>Journal of Physical Chemistry B</i> , 2005, 109, 24273-24279.	2.6	80
49	Low-Temperature Reactivity of Zn ⁺ Ions Confined in ZSM-5 Zeolite toward Carbon Monoxide Oxidation: Insight from in Situ DRIFT and ESR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2013, 135, 6762-6765.	13.7	80
50	The acidic nature of ²⁷ Al-NMR-invisible tri-coordinated framework aluminum species in zeolites. <i>Chemical Science</i> , 2019, 10, 10159-10169.	7.4	78
51	Insights of the Crystallization Process of Molecular Sieve AlPO ₄ -5 Prepared by Solvent-Free Synthesis. <i>Journal of the American Chemical Society</i> , 2016, 138, 6171-6176.	13.7	77
52	Using Trimethylphosphine as a Probe Molecule to Study the Acid Sites in Al-MCM-41 Materials by Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2003, 107, 2435-2442.	2.6	72
53	Acidity of Mesoporous MoO _x /ZrO ₂ and WO _x /ZrO ₂ Materials: A Combined Solid-State NMR and Theoretical Calculation Study. <i>Journal of Physical Chemistry B</i> , 2006, 110, 10662-10671.	2.6	70
54	Reactivity of C ₁ Surface Species Formed in Methane Activation on Zn-Modified H-ZSM-5 Zeolite. <i>Chemistry - A European Journal</i> , 2010, 16, 14016-14025.	3.3	68

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55	¹³ C Chemical Shift of Adsorbed Acetone for Measuring the Acid Strength of Solid Acids: A Theoretical Calculation Study. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12711-12718.	3.1	67
56	Direct Detection of Supramolecular Reaction Centers in the Methanol to Olefins Conversion over Zeolite ZSM-5 by ¹³ C and ²⁷ Al Solid-State NMR Spectroscopy. <i>Angewandte Chemie International Edition</i> , 2016, 55, 2507-2511.	13.8	67
57	Construction of Porous Aromatic Frameworks with Exceptional Porosity via Building Unit Engineering. <i>Advanced Materials</i> , 2018, 30, e1804169.	21.0	66
58	A Hydrothermally Stable Irreducible Oxide-Modified Pd/MgAl ₂ O ₄ Catalyst for Methane Combustion. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18522-18526.	13.8	64
59	Acid Sites and Hydration Behavior of Dealuminated Zeolite HZSM-5: A High-Resolution Solid State NMR Study. <i>The Journal of Physical Chemistry</i> , 1995, 99, 15208-15214.	2.9	62
60	Acidity characterization of heterogeneous catalysts by solid-state NMR spectroscopy using probe molecules. <i>Solid State Nuclear Magnetic Resonance</i> , 2013, 55-56, 12-27.	2.3	62
61	Experimental Evidence on the Formation of Ethene through Carbocations in Methanol Conversion over HZSM-5 Zeolite. <i>Chemistry - A European Journal</i> , 2015, 21, 12061-12068.	3.3	62
62	¹⁹ F Chemical Shift of Crystalline Metal Fluorides: Theoretical Predictions Based on Periodic Structure Models. <i>Journal of Physical Chemistry C</i> , 2009, 113, 15018-15023.	3.1	61
63	Distance measurement between a spin-1/2 and a half-integer quadrupolar nuclei by solid-state NMR using exact analytical expressions. <i>Journal of Magnetic Resonance</i> , 2010, 206, 269-273.	2.1	61
64	Measurement of Aluminum-Carbon Distances Using ¹³ C-RESPDOR NMR Experiments. <i>ChemPhysChem</i> , 2012, 13, 3605-3615.	2.1	59
65	Synergic Effect of Active Sites in Zinc-Modified ZSM-5 Zeolites as Revealed by High-Field Solid-State NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15826-15830.	13.8	59
66	Methanol to Olefins Reaction over Cavity-type Zeolite: Cavity Controls the Critical Intermediates and Product Selectivity. <i>ACS Catalysis</i> , 2018, 8, 10950-10963.	11.2	59
67	Combined Solid-State NMR and Theoretical Calculation Studies of Brønsted Acid Properties in Anhydrous 12-Molybdophosphoric Acid. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15464-15472.	3.1	57
68	Methanol to hydrocarbons reaction over H ⁺ zeolites studied by high resolution solid-state NMR spectroscopy: Carbenium ions formation and reaction mechanism. <i>Journal of Catalysis</i> , 2016, 335, 47-57.	6.2	57
69	Second-Order Nonlinear Optical Switch of a New Hydrogen-Bonded Supramolecular Crystal with a High Laser-Induced Damage Threshold. <i>Advanced Optical Materials</i> , 2014, 2, 1199-1205.	7.3	55
70	Crystallization of AlPO ₄ -5 Aluminophosphate Molecular Sieve Prepared in Fluoride Medium: A Multinuclear Solid-State NMR Study. <i>Journal of Physical Chemistry B</i> , 2007, 111, 7105-7113.	2.6	54
71	Direct observation of tin sites and their reversible interconversion in zeolites by solid-state NMR spectroscopy. <i>Communications Chemistry</i> , 2018, 1, .	4.5	54
72	Solid-state ³¹ P NMR mapping of active centers and relevant spatial correlations in solid acid catalysts. <i>Nature Protocols</i> , 2020, 15, 3527-3555.	12.0	54

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73	Unravelling the Efficient Photocatalytic Activity of Boron-induced Ti ³⁺ Species in the Surface Layer of TiO ₂ . <i>Scientific Reports</i> , 2016, 6, 34765.	3.3	53
74	F-assisted synthesis of a hierarchical ZSM-5 zeolite for methanol to propylene reaction: a b-oriented thinner dimensional morphology. <i>RSC Advances</i> , 2015, 5, 61354-61363.	3.6	52
75	Slight channel difference influences the reaction pathway of methanol-to-olefins conversion over acidic H-ZSM-22 and H-ZSM-12 zeolites. <i>Catalysis Science and Technology</i> , 2015, 5, 3507-3517.	4.1	51
76	Fluorine-planted titanosilicate with enhanced catalytic activity in alkene epoxidation with hydrogen peroxide. <i>Catalysis Science and Technology</i> , 2012, 2, 2433.	4.1	50
77	Recent Advances of Solid-State NMR Spectroscopy for Microporous Materials. <i>Advanced Materials</i> , 2020, 32, e2002879.	21.0	50
78	Reactivity Enhancement of 2-Propanol Photocatalysis on SO ₄ ²⁻ /TiO ₂ : Insights from Solid-State NMR Spectroscopy. <i>Environmental Science & Technology</i> , 2008, 42, 5316-5321.	10.0	49
79	Sustainable Synthesis of Pure Silica Zeolites from a Combined Strategy of Zeolite Seeding and Alcohol Filling. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12138-12142.	13.8	47
80	Evolution of D6R units in the interzeolite transformation from FAU, MFI or *BEA into AEI: transfer or reassembly?. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 2204-2211.	6.0	47
81	Acidity of sulfated tin oxide and sulfated zirconia: A view from solid-state NMR spectroscopy. <i>Catalysis Communications</i> , 2009, 10, 920-924.	3.3	45
82	Alkylation of Benzene with Methane over ZnZSM-5 Zeolites Studied with Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4018-4023.	3.1	45
83	Pore Selectivity for Olefin Protonation Reactions Confined inside Mordenite Zeolite: A Theoretical Calculation Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 2194-2202.	3.1	43
84	Synthesis of chiral polymorph A-enriched zeolite Beta with an extremely concentrated fluoride route. <i>Scientific Reports</i> , 2015, 5, 11521.	3.3	43
85	Super Hydrophobic Mesoporous Silica with Anchored Methyl Groups on the Surface by a One-Step Synthesis without Surfactant Template. <i>Journal of Physical Chemistry C</i> , 2007, 111, 999-1004.	3.1	42
86	New Insights into Keggin-Type 12-Tungstophosphoric Acid from ³¹ P MAS NMR Analysis of Absorbed Trimethylphosphine Oxide and DFT Calculations. <i>Chemistry - an Asian Journal</i> , 2011, 6, 137-148.	3.3	42
87	Mapping the oxygen structure of γ -Al ₂ O ₃ by high-field solid-state NMR spectroscopy. <i>Nature Communications</i> , 2020, 11, 3620.	12.8	42
88	New Insights into the Effects of Acid Strength on the Solid Acid-Catalyzed Reaction: Theoretical Calculation Study of Olefinic Hydrocarbon Protonation Reaction. <i>Journal of Physical Chemistry C</i> , 2010, 114, 10254-10264.	3.1	41
89	Amine Surface Modifications and Fluorescent Labeling of Thermally Stabilized Mesoporous Silicon Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22307-22314.	3.1	41
90	Observation of an oxonium ion intermediate in ethanol dehydration to ethene on zeolite. <i>Nature Communications</i> , 2019, 10, 1961.	12.8	40

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91	Solid-state MAS NMR detection of the oxidation center in TS-1 zeolite by in situ probe reaction. <i>Journal of Catalysis</i> , 2004, 221, 670-673.	6.2	39
92	Influence of acid strength on the reactivity of alkane activation on solid acid catalysts: A theoretical calculation study. <i>Microporous and Mesoporous Materials</i> , 2012, 151, 241-249.	4.4	39
93	Dual Active Sites on Molybdenum/ZSM-5 Catalyst for Methane Dehydroaromatization: Insights from Solid-State NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10709-10715.	13.8	39
94	Synthesis of high-silica EU-1 zeolite in the presence of hexamethonium ions: A seeded approach for inhibiting ZSM-48. <i>Journal of Colloid and Interface Science</i> , 2011, 358, 252-260.	9.4	38
95	Highly nitrogen-doped mesoscopic carbons as efficient metal-free electrocatalysts for oxygen reduction reactions. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20030-20037.	10.3	37
96	Solid-state NMR studies of internuclear correlations for characterizing catalytic materials. <i>Chemical Society Reviews</i> , 2021, 50, 8382-8399.	38.1	37
97	Enhancement of Brønsted acidity in zeolitic catalysts due to an intermolecular solvent effect in confined micropores. <i>Chemical Communications</i> , 2012, 48, 6936.	4.1	35
98	Interactions between Cyclic Carbocations and Aromatics Cause Zeolite Deactivation in Methanol-to-Hydrocarbon Conversion. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7198-7202.	13.8	35
99	Hydroiodic Acid Additive Enhanced the Performance and Stability of PbS-QDs Solar Cells via Suppressing Hydroxyl Ligand. <i>Nano-Micro Letters</i> , 2020, 12, 37.	27.0	35
100	Solid-state NMR studies of methanol-to-aromatics reaction over silver exchanged HZSM-5 zeolite. <i>Microporous and Mesoporous Materials</i> , 2007, 98, 214-219.	4.4	34
101	Signal enhancement of J-HMQC experiments in solid-state NMR involving half-integer quadrupolar nuclei. <i>Chemical Communications</i> , 2013, 49, 6653.	4.1	34
102	Recent Advances of Solid-State NMR Studies on Zeolites. <i>Annual Reports on NMR Spectroscopy</i> , 2013, 78, 1-54.	1.5	34
103	Progress in development and application of solid-state NMR for solid acid catalysis. <i>Chinese Journal of Catalysis</i> , 2013, 34, 436-491.	14.0	33
104	Boosting the turnover number of core-shell Al-ZSM-5@B-ZSM-5 zeolite for methanol to propylene reaction by modulating its gradient acid site distribution and low consumption diffusion. <i>Catalysis Science and Technology</i> , 2019, 9, 659-671.	4.1	33
105	Mechanism of Methanol-to-Hydrocarbon Reaction over Zeolites: A solid-state NMR Perspective. <i>ChemCatChem</i> , 2020, 12, 965-980.	3.7	33
106	Solid state NMR study of acid sites formed by adsorption of SO ₃ onto γ -Al ₂ O ₃ . <i>Chemical Communications</i> , 2003, , 884-885.	4.1	32
107	Strong or weak acid, which is more efficient for Beckmann rearrangement reaction over solid acid catalysts?. <i>Catalysis Science and Technology</i> , 2015, 5, 3675-3681.	4.1	32
108	Stabilizing the framework of SAPO-34 zeolite toward long-term methanol-to-olefins conversion. <i>Nature Communications</i> , 2021, 12, 4661.	12.8	32

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109	Formation, Location, and Photocatalytic Reactivity of Methoxy Species on Keggin 12-H ₃ PW ₁₂ O ₄₀ : A Joint Solid-State NMR Spectroscopy and DFT Calculation Study. <i>Journal of Physical Chemistry C</i> , 2008, 112, 15765-15770.	3.1	31
110	Host-Guest Interactions in Dealuminated HY Zeolite Probed by ¹³ C- ²⁷ Al Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3068-3072.	4.6	31
111	Highly efficient visible light induced photocatalytic activity of a novel in situ synthesized conjugated microporous poly(benzothiadiazole)-C ₃ N ₄ composite. <i>Catalysis Science and Technology</i> , 2017, 7, 418-426.	4.1	30
112	Brønsted and Lewis Acidity of the BF ₃ /Al ₂ O ₃ Alkylation Catalyst as Revealed by Solid-State NMR Spectroscopy and DFT Quantum Chemical Calculations. <i>Journal of Physical Chemistry B</i> , 2005, 109, 13124-13131.	2.6	29
113	Population transfer HMQC for half-integer quadrupolar nuclei. <i>Journal of Chemical Physics</i> , 2015, 142, 094201.	3.0	29
114	Probing the surface of ¹³ Al ₂ O ₃ by oxygen-17 dynamic nuclear polarization enhanced solid-state NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 17218-17225.	2.8	29
115	Molecular Visers for Precisely Positioning Ligands near Catalytic Metal Centers in Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020, 142, 16182-16187.	13.7	29
116	Establishing a Link Between the Dual Cycles in Methanol-to-Olefins Conversion on H-ZSM-5: Aromatization of Cycloalkenes. <i>ACS Catalysis</i> , 2020, 10, 4299-4305.	11.2	29
117	Direct observation of methylcyclopentenyl cations (MCP ⁺) and olefin generation in methanol conversion over TON zeolite. <i>Catalysis Science and Technology</i> , 2016, 6, 89-97.	4.1	28
118	Origin of High Selectivity of Dimethyl Ether Carbonylation in the 8-Membered Ring Channel of Mordenite Zeolite. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15503-15512.	3.1	28
119	An NMR Scale for Measuring the Base Strength of Solid Catalysts with Pyrrole Probe: A Combined Solid-State NMR Experiment and Theoretical Calculation Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 3887-3895.	3.1	27
120	Mesoporous MSU materials functionalized with sulfonic group: A multinuclear NMR and theoretical calculation study. <i>Microporous and Mesoporous Materials</i> , 2006, 89, 219-226.	4.4	26
121	Molecular engineering of microporous crystals: (IV) Crystallization process of microporous aluminophosphate AlPO ₄ -11. <i>Microporous and Mesoporous Materials</i> , 2012, 152, 190-207.	4.4	26
122	Methanol carbonylation over copper-modified mordenite zeolite: A solid-state NMR study. <i>Solid State Nuclear Magnetic Resonance</i> , 2016, 80, 1-6.	2.3	26
123	External or internal surface of H-ZSM-5 zeolite, which is more effective for the Beckmann rearrangement reaction?. <i>Catalysis Science and Technology</i> , 2017, 7, 2512-2523.	4.1	26
124	Solid-state NMR Studies of Host-Guest Interaction between UiO-67 and Light Alkane at Room Temperature. <i>Journal of Physical Chemistry C</i> , 2017, 121, 14261-14268.	3.1	25
125	Isolated π -Interaction Sites in Mesoporous MOF Backbone for Repetitive and Reversible Dynamics in Water. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 973-981.	8.0	25
126	Ammonia Catalyzed Hydrolysis-Condensation Kinetics of Tetraethoxysilane/Dimethyldiethoxysilane Mixtures Studied by ²⁹ Si NMR and SAXS. <i>Journal of Solution Chemistry</i> , 2007, 36, 327-344.	1.2	24

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127	Host-Guest Interactions and Their Catalytic Consequences in Methanol to Olefins Conversion on Zeolites Studied by ^{27}Al Double-Resonance Solid-State NMR Spectroscopy. <i>ACS Catalysis</i> , 2017, 7, 6094-6103.	11.2	24
128	Preferential Occupation of Xenon in Zeolite MCM-22 As Revealed by ^{129}Xe NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2001, 105, 9426-9432.	2.6	23
129	Stability of the Reaction Intermediates of Ethylbenzene Disproportionation over Medium-Pore Zeolites with Different Framework Topologies: A Theoretical Investigation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 23626-23637.	3.1	23
130	Extra-Framework Aluminum-Assisted Initial C-C Bond Formation in Methanol to Olefins Conversion on Zeolite H-ZSM-5. <i>Angewandte Chemie</i> , 2018, 130, 10354-10358.	2.0	23
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