

Feng Deng

List of Publications by Year in descending order

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papers

10,991
citations

20817

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227
docs citations

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times ranked

8428
citing authors

#	ARTICLE	IF	CITATIONS
1	Au-ZSM-5 catalyses the selective oxidation of CH ₄ to CH ₃ OH and CH ₃ COOH using O ₂ . Nature Catalysis, 2022, 5, 45-54.	34.4	95
2	Application of solid-state NMR techniques for structural characterization of metal-organic frameworks. Solid State Nuclear Magnetic Resonance, 2022, 117, 101772.	2.3	14
3	Mechanistic Insight into Ethanol Dehydration over SAPO-34 Zeolite by Solid-state NMR Spectroscopy. Chemical Research in Chinese Universities, 2022, 38, 155-160.	2.6	8
4	Preferential adsorption sites for propane/propylene separation on ZIF-8 as revealed by solid-state NMR spectroscopy. Physical Chemistry Chemical Physics, 2022, 24, 6535-6543.	2.8	4
5	Identifying Crystallographically Different Si ^{IV} -OH ^{IV} -Al Brønsted Acid Sites in LTA Zeolites. Angewandte Chemie - International Edition, 2022, 61, .	13.8	6
6	Aluminum-Doped TiO ₂ with Dominant {001} Facets: Microstructure and Property Evolution and Photocatalytic Activity. Journal of Physical Chemistry C, 2022, 126, 5555-5563.	3.1	7
7	Heterogeneous parahydrogen induced polarization on Rh-containing silicalite-1 zeolites: effect of the catalyst structure on signal enhancement. Catalysis Science and Technology, 2022, 12, 4442-4449.	4.1	2
8	Dynamic Self-Dispersion of Aggregated Boron Clusters into Stable Oligomeric Boron Species on MFI Zeolite Nanosheets under Oxidative Dehydrogenation of Propane. ACS Catalysis, 2022, 12, 7368-7376.	11.2	13
9	Through-space ¹¹ B- ²⁷ Al correlation: Influence of the recoupling channel. Magnetic Resonance in Chemistry, 2021, 59, 1062-1076.	1.9	3
10	Dual Active Sites on Molybdenum/ZSM-5 Catalyst for Methane Dehydroaromatization: Insights from Solid-State NMR Spectroscopy. Angewandte Chemie, 2021, 133, 10804-10810.	2.0	2
11	Influence of Trimethylphosphine Oxide Loading on the Measurement of Zeolite Acidity by Solid-State NMR Spectroscopy. Journal of Physical Chemistry C, 2021, 125, 9497-9506.	3.1	15
12	Dual Active Sites on Molybdenum/ZSM-5 Catalyst for Methane Dehydroaromatization: Insights from Solid-State NMR Spectroscopy. Angewandte Chemie - International Edition, 2021, 60, 10709-10715.	13.8	39
13	Interfacial-Bonding Ti ^{IV} -N ^{IV} -C Boosts Efficient Photocatalytic H ₂ Evolution in Close Coupling g-C ₃ N ₄ /TiO ₂ . Journal of Physical Chemistry C, 2021, 125, 12012-12018.	3.1	11
14	Host-Guest Interaction in Ethylene and Ethane Separation on Zeolitic Imidazolate Frameworks as Revealed by Solid-State NMR Spectroscopy. Chemistry - A European Journal, 2021, 27, 11303-11308.	3.3	7
15	Pairwise Stereoselective Hydrogenation of Propyne on Supported Pd-Ag Catalysts Investigated by Parahydrogen-Induced Polarization. Journal of Physical Chemistry C, 2021, 125, 17144-17154.	3.1	6
16	Efficient and selective photocatalytic CH ₄ conversion to CH ₃ OH with O ₂ by controlling overoxidation on TiO ₂ . Nature Communications, 2021, 12, 4652.	12.8	131
17	Stabilizing the framework of SAPO-34 zeolite toward long-term methanol-to-olefins conversion. Nature Communications, 2021, 12, 4661.	12.8	32
18	Unraveling Hydrocarbon Pool Boosted Propane Aromatization on Gallium/ZSM-5 Zeolite by Solid-State Nuclear Magnetic Resonance Spectroscopy. Angewandte Chemie, 2021, 133, 23822-23826.	2.0	1

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19	Breathing Effect via Solvent Inclusions on the Linker Rotational Dynamics of Functionalized MIL-53. Chemistry - A European Journal, 2021, 27, 14711-14720.	3.3	9
20	Unraveling Hydrocarbon Pool Boosted Propane Aromatization on Gallium/ZSM-5 Zeolite by Solid-State Nuclear Magnetic Resonance Spectroscopy. Angewandte Chemie - International Edition, 2021, 60, 23630-23634.	13.8	15
21	Solid-state NMR studies of internuclear correlations for characterizing catalytic materials. Chemical Society Reviews, 2021, 50, 8382-8399.	38.1	37
22	Insight into Carbocation-Induced Noncovalent Interactions in the Methanol-to-Olefins Reaction over ZSM-5 Zeolite by Solid-State NMR Spectroscopy. Angewandte Chemie - International Edition, 2021, 60, 26847-26854.	13.8	9
23	Titelbild: Insight into Carbocation-Induced Noncovalent Interactions in the Methanol-to-Olefins Reaction over ZSM-5 Zeolite by Solid-State NMR Spectroscopy (Angew. Chem. 51/2021). Angewandte Chemie, 2021, 133, 26617-26617.	2.0	0
24	Solid-state NMR studies of the acidity of functionalized metal-organic framework UiO-66 materials. Magnetic Resonance in Chemistry, 2020, 58, 1091-1098.	1.9	7
25	Mechanism of Methanol-to-Hydrocarbon Reaction over Zeolites: A solid-state NMR Perspective. ChemCatChem, 2020, 12, 965-980.	3.7	33
26	Solid-state ³¹ P NMR mapping of active centers and relevant spatial correlations in solid acid catalysts. Nature Protocols, 2020, 15, 3527-3555.	12.0	54
27	Quantitative Analysis of Linker Composition and Spatial Arrangement of Multivariate Metal-Organic Framework UiO-66 through ¹ H Fast MAS NMR. Journal of Physical Chemistry C, 2020, 124, 17640-17647.	3.1	12
28	Mapping the oxygen structure of ¹³ -Al ₂ O ₃ by high-field solid-state NMR spectroscopy. Nature Communications, 2020, 11, 3620.	12.8	42
29	Probing the active sites for methane activation on Ga/ZSM-5 zeolites with solid-state NMR spectroscopy. Chemical Communications, 2020, 56, 12029-12032.	4.1	5
30	Hydrogen Spillover to Oxygen Vacancy of TiO ₂ /H ₂ /Fe: Breaking the Scaling Relationship of Ammonia Synthesis. Journal of the American Chemical Society, 2020, 142, 17403-17412.	13.7	91
31	Recent Advances of Solid-State NMR Spectroscopy for Microporous Materials. Advanced Materials, 2020, 32, e2002879.	21.0	50
32	Molecular Visers for Precisely Positioning Ligands near Catalytic Metal Centers in Metal-Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 16182-16187.	13.7	29
33	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
34	gem-Diol-Type Intermediate in the Activation of a Ketone on Sn ²⁺ Zeolite as Studied by Solid-State NMR Spectroscopy. Angewandte Chemie, 2020, 132, 19700-19706.	2.0	2
35	gem-Diol-Type Intermediate in the Activation of a Ketone on Sn ²⁺ Zeolite as Studied by Solid-State NMR Spectroscopy. Angewandte Chemie - International Edition, 2020, 59, 19532-19538.	13.8	13
36	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

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37	Synthesis of Aluminophosphate Molecular Sieves in Alkaline Media. <i>Chemistry - A European Journal</i> , 2020, 26, 11408-11411.	3.3	5
38	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
39	A Hydrothermally Stable Irreducible Oxide-Modified Pd/MgAl ₂ O ₄ Catalyst for Methane Combustion. <i>Angewandte Chemie</i> , 2020, 132, 18680-18684.	2.0	14
40	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
41	Primary Adsorption Sites of Light Alkanes in Multivariate UiO-66 at Room Temperature as Revealed by Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3738-3746.	3.1	12
42	π - π Interactions between Cyclic Carbocations and Aromatics Cause Zeolite Deactivation in Methanol-to-Hydrocarbon Conversion. <i>Angewandte Chemie</i> , 2020, 132, 7265-7269.	2.0	7
43	Surface Water Loading on Titanium Dioxide Modulates Photocatalytic Water Splitting. <i>Cell Reports Physical Science</i> , 2020, 1, 100013.	5.6	17
44	π - π 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
45	Solid-state NMR for metal-containing zeolites: From active sites to reaction mechanism. <i>Frontiers of Chemical Science and Engineering</i> , 2020, 14, 159-187.	4.4	18
46	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
47	Multiple Methane Activation Pathways on Ga-modified ZSM-5 Zeolites Revealed by Solid-State NMR Spectroscopy. <i>ChemCatChem</i> , 2020, 12, 3880-3889.	3.7	7
48	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
49	Sustainable Synthesis of Pure Silica Zeolites from a Combined Strategy of Zeolite Seeding and Alcohol Filling. <i>Angewandte Chemie</i> , 2019, 131, 12266-12270.	2.0	3
50	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
51	The acidic nature of α -NMR-invisible tri-coordinated framework aluminum species in zeolites. <i>Chemical Science</i> , 2019, 10, 10159-10169.	7.4	78
52	Host-Guest Interaction between Methanol and Metal-Organic Framework Cu ₃ Zn ₂ (btc) ₂ as Revealed by Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2019, 123, 24062-24070.	3.1	12
53	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
54	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

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55	Solid-State NMR Principles and Techniques. Lecture Notes in Quantum Chemistry II, 2019, , 1-55.	0.3	3
56	Metal Active Sites and Their Catalytic Functions in Zeolites: Insights from Solid-State NMR Spectroscopy. Accounts of Chemical Research, 2019, 52, 2179-2189.	15.6	106
57	Solid-State NMR Characterization of Acid Properties of Zeolites and Solid Acid Catalysts. Lecture Notes in Quantum Chemistry II, 2019, , 159-197.	0.3	5
58	Solid-State NMR in Zeolite Catalysis. Lecture Notes in Quantum Chemistry II, 2019, , .	0.3	17
59	In Situ Solid-State NMR Investigation of Catalytic Reactions on Zeolites. Lecture Notes in Quantum Chemistry II, 2019, , 199-254.	0.3	2
60	Solid-State NMR Characterization of Host-Guest Interactions. Lecture Notes in Quantum Chemistry II, 2019, , 133-157.	0.3	1
61	Observation of an oxonium ion intermediate in ethanol dehydration to ethene on zeolite. Nature Communications, 2019, 10, 1961.	12.8	40
62	Isolated π -Interaction Sites in Mesoporous MOF Backbone for Repetitive and Reversible Dynamics in Water. ACS Applied Materials & Interfaces, 2019, 11, 973-981.	8.0	25
63	Direct observation of tin sites and their reversible interconversion in zeolites by solid-state NMR spectroscopy. Communications Chemistry, 2018, 1, .	4.5	54
64	Efficient synthesis of aluminosilicate RTH zeolite with good catalytic performances in NH_3 -SCR and MTO reactions. Journal of Materials Chemistry A, 2018, 6, 8705-8711.	10.3	22
65	Synthesis of $\text{Eu}^{3+}/\text{ZSM-48}$ Co-Crystalline Zeolites from High-Silica Eu^{3+} Seeds: Tailoring Phase Proportions and Promoting Long Crystalline Phase Stability. Chemistry - A European Journal, 2018, 24, 6595-6605.	3.3	13
66	Tuning Pd-Au Bimetallic Catalysts for Heterogeneous Parahydrogen-Induced Polarization. Journal of Physical Chemistry C, 2018, 122, 1248-1257.	3.1	13
67	Host-guest interaction of styrene and ethylbenzene in MIL-53 studied by solid-state NMR. Solid State Nuclear Magnetic Resonance, 2018, 90, 1-6.	2.3	13
68	Porous Organic Polymers Constructed from Tröger's Base as Efficient Carbon Dioxide Adsorbents and Heterogeneous Catalysts. ChemCatChem, 2018, 10, 1900-1904.	3.7	11
69	Enhanced Photocatalytic Performance of Carbon-Coated TiO_2 with Surface-Active Carbon Species. Journal of Physical Chemistry C, 2018, 122, 10948-10955.	3.1	21
70	Brønsted/Lewis Acid Synergy in Methanol-to-Aromatics Conversion on Ga-Modified ZSM-5 Zeolites, As Studied by Solid-State NMR Spectroscopy. ACS Catalysis, 2018, 8, 69-74.	11.2	107
71	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
72	A Mechanistic Study of Methanol-to-Aromatics Reaction over Ga-Modified ZSM-5 Zeolites: Understanding the Dehydrogenation Process. ACS Catalysis, 2018, 8, 9809-9820.	11.2	100

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73	Construction of Porous Aromatic Frameworks with Exceptional Porosity via Building Unit Engineering. <i>Advanced Materials</i> , 2018, 30, e1804169.	21.0	66
74	Probing the surface of $\text{I}^{3-}\text{Al}_2\text{O}_3$ by oxygen-17 dynamic nuclear polarization enhanced solid-state NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 17218-17225.	2.8	29
75	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
76	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
77	New insights into the di-n-propylamine (DPA) molecule as an organic structural directing agent (OSDA) in the crystallization of AlPO_4 -11 molecular sieve. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 1633-1639.	6.0	10
78	Formation of aluminum diphosphonate mesostructures: The effect of aluminum source. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 718-726.	9.4	0
79	Uniform signal enhancement in MAS NMR of half-integer quadrupolar nuclei using quadruple-frequency sweeps. <i>Journal of Magnetic Resonance</i> , 2018, 293, 92-103.	2.1	11
80	Facet dependent pairwise addition of hydrogen over Pd nanocrystal catalysts revealed via NMR using para-hydrogen-induced polarization. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 9349-9353.	2.8	16
81	Heteronuclear correlation experiments of ^{23}Na - ^{27}Al in rotating solids. <i>Solid State Nuclear Magnetic Resonance</i> , 2017, 84, 103-110.	2.3	11
82	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
83	Understanding Surface and Interfacial Chemistry in Functional Nanomaterials via Solid-State NMR. <i>Advanced Materials</i> , 2017, 29, 1605895.	21.0	91
84	Solvent-Free Synthesis of ITQ-12, ITQ-13, and ITQ-17 Zeolites. <i>Chinese Journal of Chemistry</i> , 2017, 35, 572-576.	4.9	15
85	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
86	Highly efficient visible light induced photocatalytic activity of a novel in situ synthesized conjugated microporous poly(benzothiadiazole)- C_3N_4 composite. <i>Catalysis Science and Technology</i> , 2017, 7, 418-426.	4.1	30
87	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
88	Identification of double four-ring units in germanosilicate ITQ-13 zeolite by solid-state NMR spectroscopy. <i>Solid State Nuclear Magnetic Resonance</i> , 2017, 87, 1-9.	2.3	13
89	Carbonylation of ethane with carbon monoxide over Zn-modified ZSM-5 zeolites studied by in situ solid-state NMR spectroscopy. <i>Journal of Catalysis</i> , 2017, 345, 228-235.	6.2	20
90	^{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

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91	Host-Guest Interactions and Their Catalytic Consequences in Methanol to Olefins Conversion on Zeolites Studied by ¹³ C- ²⁷ Al Double-Resonance Solid-State NMR Spectroscopy. ACS Catalysis, 2017, 7, 6094-6103.	11.2	24
92	Structure-directing effect on synthesis of layered aluminophosphates with same topology. Chemical Research in Chinese Universities, 2017, 33, 513-519.	2.6	4
93	Transfer Channel of Photoinduced Holes on a TiO ₂ Surface As Revealed by Solid-State Nuclear Magnetic Resonance and Electron Spin Resonance Spectroscopy. Journal of the American Chemical Society, 2017, 139, 10020-10028.	13.7	96
94	A Hierarchical Bipyridine-Constructed Framework for Highly Efficient Carbon Dioxide Capture and Catalytic Conversion. ChemSusChem, 2017, 10, 1186-1192.	6.8	94
95	Direct Detection of Supramolecular Reaction Centers in the Methanol to Olefins Conversion over Zeolite H-ZSM-5 by ¹³ C- ²⁷ Al Solid-State NMR Spectroscopy. Angewandte Chemie, 2016, 128, 2553-2557.	11.8	14
96	Direct Detection of Supramolecular Reaction Centers in the Methanol to Olefins Conversion over Zeolite H-ZSM-5 by ¹³ C- ²⁷ Al Solid-State NMR Spectroscopy. Angewandte Chemie International Edition, 2016, 55, 2507-2511.	11.8	67
97	Valence state alternation of copper species doped in HY zeolite as revealed by paramagnetic relaxation enhancement NMR spectroscopy. Solid State Nuclear Magnetic Resonance, 2016, 74-75, 10-15.	2.3	3
98	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
99	An elaborate structure investigation of the chiral polymorph A-enriched zeolite beta. CrystEngComm, 2016, 18, 1782-1789.	2.6	19
100	Direct Detection of Supramolecular Reaction Centers in the Methanol to Olefins Conversion over Zeolite H-ZSM-5 by ¹³ C- ²⁷ Al Solid-State NMR Spectroscopy (Angew. Chem. 7/2016). Angewandte Chemie, 2016, 128, 2648-2648.	2.0	0
101	Insights of the Crystallization Process of Molecular Sieve AlPO ₄ -5 Prepared by Solvent-Free Synthesis. Journal of the American Chemical Society, 2016, 138, 6171-6176.	13.7	77
102	Methanol carbonylation over copper-modified mordenite zeolite: A solid-state NMR study. Solid State Nuclear Magnetic Resonance, 2016, 80, 1-6.	2.3	26
103	Polarization Switching Induced by Slowing the Dynamic Swinglike Motion in a Flexible Organic Dielectric. Journal of Physical Chemistry C, 2016, 120, 27571-27576.	3.1	14
104	Synergic Effect of Active Sites in Zinc-Modified ZSM-5 Zeolites as Revealed by High-Field Solid-State NMR Spectroscopy. Angewandte Chemie - International Edition, 2016, 55, 15826-15830.	13.8	59
105	Synergic Effect of Active Sites in Zinc-Modified ZSM-5 Zeolites as Revealed by High-Field Solid-State NMR Spectroscopy. Angewandte Chemie, 2016, 128, 16058-16062.	2.0	12
106	Origin of Zeolite Confinement Revisited by Energy Decomposition Analysis. Journal of Physical Chemistry C, 2016, 120, 27349-27363.	3.1	12
107	Unravelling the Efficient Photocatalytic Activity of Boron-induced Ti ³⁺ Species in the Surface Layer of TiO ₂ . Scientific Reports, 2016, 6, 34765.	3.3	53
108	Temperature-dependence of the influence of the position-2-methyl group on the structure-directing effect of piperazine in the synthesis of open-framework aluminophosphates. Scientific Reports, 2016, 6, 22019.	3.3	4

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109	Insights into the reaction mechanism of propene H/D exchange over acidic zeolite catalysts from theoretical calculations. <i>Catalysis Science and Technology</i> , 2016, 6, 6328-6338.	4.1	9
110	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
111	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
112	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
113	Bistable H ⁺ -N hydrogen bonds for reversibly modulating the dynamic motion in an organic co-crystal. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10868-10872.	2.8	20
114	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
115	Population transfer HMQC for half-integer quadrupolar nuclei. <i>Journal of Chemical Physics</i> , 2015, 142, 094201.	3.0	29
116	Experimental Evidence on the Formation of Ethene through Carbocations in Methanol Conversion over ZSM-5 Zeolite. <i>Chemistry - A European Journal</i> , 2015, 21, 12061-12068.	3.3	62
117	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
118	Investigation of the Strong Brønsted Acidity in a Novel SAPO-type Molecular Sieve, DNL-6. <i>Journal of Physical Chemistry C</i> , 2015, 119, 2589-2596.	3.1	14
119	Paramagnetic relaxation enhancement solid-state NMR studies of heterogeneous catalytic reaction over HY zeolite using natural abundance reactant. <i>Solid State Nuclear Magnetic Resonance</i> , 2015, 66-67, 29-32.	2.3	8
120	Synthesis of chiral polymorph A-enriched zeolite Beta with an extremely concentrated fluoride route. <i>Scientific Reports</i> , 2015, 5, 11521.	3.3	43
121	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
122	Room temperature stable zinc carbonyl complex formed in zeolite ZSM-5 and its hydrogenation reactivity: a solid-state NMR study. <i>Chemical Communications</i> , 2015, 51, 9177-9180.	4.1	5
123	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
124	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
125	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
126	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

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127	Observation of ^1H - ^{13}C and ^1H - ^1H proximities in a paramagnetic solid by NMR at high magnetic field under ultra-fast MAS. <i>Journal of Magnetic Resonance</i> , 2015, 251, 36-42.	2.1	8
128	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
129	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
130	Acidity Characterization of Solid Acid Catalysts by Solid-State ^{31}P NMR of Adsorbed Phosphorus-Containing Probe Molecules. <i>Annual Reports on NMR Spectroscopy</i> , 2014, 81, 47-108.	1.5	20
131	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
132	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
133	Alkylation of benzene with carbon monoxide over Zn/H-ZSM-5 zeolite studied using in situ solid-state NMR spectroscopy. <i>Chemical Communications</i> , 2014, 50, 11382-11384.	4.1	16
134	The temperature-dependence of the structure-directing effect of 2-methylpiperazine in the synthesis of open-framework aluminophosphates. <i>RSC Advances</i> , 2014, 4, 39011-39019.	3.6	9
135	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
136	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
137	Capturing the Local Adsorption Structures of Carbon Dioxide in Polyamine-Impregnated Mesoporous Silica Adsorbents. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3183-3187.	4.6	13
138	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
139	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
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