

Feng Deng

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

217
papers

8,323
citations

53
h-index

81
g-index

227
ext. papers

9,717
ext. citations

7.6
avg. IF

6.08
L-index

#	Paper	IF	Citations
217	Mechanistic Insight into Ethanol Dehydration over SAPO-34 Zeolite by Solid-state NMR Spectroscopy. <i>Chemical Research in Chinese Universities</i> , 2022 , 38, 155-160	2.2	0
216	Application of solid-state NMR techniques for structural characterization of metal-organic frameworks.. <i>Solid State Nuclear Magnetic Resonance</i> , 2022 , 117, 101772	3.1	2
215	Aluminum-Doped TiO ₂ with Dominant {001} Facets: Microstructure and Property Evolution and Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 5555-5563	3.8	1
214	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). <i>Angewandte Chemie</i> , 2021 , 133, 26617	3.6	
213	Insight into Carbocation-Induced Noncovalent Interactions in the Methanol-to-Olefins Reaction over ZSM-5 Zeolite by Solid-State NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 26847-26854	16.4	3
212	Through-space B- Al correlation: Influence of the recoupling channel. <i>Magnetic Resonance in Chemistry</i> , 2021 , 59, 1062-1076	2.1	2
211	Dual Active Sites on Molybdenum/ZSM-5 Catalyst for Methane Dehydroaromatization: Insights from Solid-State NMR Spectroscopy. <i>Angewandte Chemie</i> , 2021 , 133, 10804-10810	3.6	2
210	Influence of Trimethylphosphine Oxide Loading on the Measurement of Zeolite Acidity by Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 9497-9506	3.8	5
209	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	16.4	16
208	Interfacial-Bonding Ti ₃ N ₅ Boosts Efficient Photocatalytic H ₂ Evolution in Close Coupling g-C ₃ N ₄ /TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2021 , 125, 12012-12018	3.8	3
207	Host-Guest Interaction in Ethylene and Ethane Separation on Zeolitic Imidazolate Frameworks as Revealed by Solid-State NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2021 , 27, 11303-11308	4.8	3
206	Pairwise Stereoselective Hydrogenation of Propyne on Supported PdAg Catalysts Investigated by Parahydrogen-Induced Polarization. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 17144-17154	3.8	1
205	Efficient and selective photocatalytic CH conversion to CHOH with O by controlling overoxidation on TiO. <i>Nature Communications</i> , 2021 , 12, 4652	17.4	24
204	Stabilizing the framework of SAPO-34 zeolite toward long-term methanol-to-olefins conversion. <i>Nature Communications</i> , 2021 , 12, 4661	17.4	8
203	Unraveling Hydrocarbon Pool Boosted Propane Aromatization on Gallium/ZSM-5 Zeolite by Solid-State Nuclear Magnetic Resonance Spectroscopy. <i>Angewandte Chemie</i> , 2021 , 133, 23822	3.6	0
202	Breathing Effect via Solvent Inclusions on the Linker Rotational Dynamics of Functionalized MIL-53. <i>Chemistry - A European Journal</i> , 2021 , 27, 14711-14720	4.8	2
201	Unraveling Hydrocarbon Pool Boosted Propane Aromatization on Gallium/ZSM-5 Zeolite by Solid-State Nuclear Magnetic Resonance Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 23630-23634	16.4	4

200	Solid-state NMR studies of internuclear correlations for characterizing catalytic materials. <i>Chemical Society Reviews</i> , 2021 , 50, 8382-8399	58.5	7
199	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	6.8	14
198	gem-Diol-Type Intermediate in the Activation of a Ketone on Sn-Zeolite as Studied by Solid-State NMR Spectroscopy. <i>Angewandte Chemie</i> , 2020 , 132, 19700-19706	3.6	0
197	gem-Diol-Type Intermediate in the Activation of a Ketone on Sn-Zeolite as Studied by Solid-State NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19532-19538	16.4	8
196	Theoretical Prediction from Classical Equations and Rational Synthesis of Ultrafine LTL Zeolite Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 13819-13824	3.8	0
195	Synthesis of Aluminophosphate Molecular Sieves in Alkaline Media. <i>Chemistry - A European Journal</i> , 2020 , 26, 11408-11411	4.8	1
194	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	13.1	11
193	A Hydrothermally Stable Irreducible Oxide-Modified Pd/MgAl ₂ O ₄ Catalyst for Methane Combustion. <i>Angewandte Chemie</i> , 2020 , 132, 18680-18684	3.6	7
192	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	16.4	27
191	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	3.8	8
190	Interactions between Cyclic Carbocations and Aromatics Cause Zeolite Deactivation in Methanol-to-Hydrocarbon Conversion. <i>Angewandte Chemie</i> , 2020 , 132, 7265-7269	3.6	5
189	Surface Water Loading on Titanium Dioxide Modulates Photocatalytic Water Splitting. <i>Cell Reports Physical Science</i> , 2020 , 1, 100013	6.1	11
188	Interactions between Cyclic Carbocations and Aromatics Cause Zeolite Deactivation in Methanol-to-Hydrocarbon Conversion. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 7198-7202	16.4	21
187	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	4.5	5
186	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	19.5	17
185	Multiple Methane Activation Pathways on Ga-modified ZSM-5 Zeolites Revealed by Solid-State NMR Spectroscopy. <i>ChemCatChem</i> , 2020 , 12, 3880-3889	5.2	4
184	Solid-state NMR studies of the acidity of functionalized metal-organic framework UiO-66 materials. <i>Magnetic Resonance in Chemistry</i> , 2020 , 58, 1091-1098	2.1	1
183	Mechanism of Methanol-to-hydrocarbon Reaction over Zeolites: A solid-state NMR Perspective. <i>ChemCatChem</i> , 2020 , 12, 965-980	5.2	24

182	Solid-state P NMR mapping of active centers and relevant spatial correlations in solid acid catalysts. <i>Nature Protocols</i> , 2020 , 15, 3527-3555	18.8	22
181	Quantitative Analysis of Linker Composition and Spatial Arrangement of Multivariate Metal-Organic Framework UiO-66 through 1H Fast MAS NMR. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 17640-17647	3.8	6
180	Mapping the oxygen structure of FAO by high-field solid-state NMR spectroscopy. <i>Nature Communications</i> , 2020 , 11, 3620	17.4	24
179	Probing the active sites for methane activation on Ga/ZSM-5 zeolites with solid-state NMR spectroscopy. <i>Chemical Communications</i> , 2020 , 56, 12029-12032	5.8	1
178	Hydrogen Spillover to Oxygen Vacancy of TiOH/Fe: Breaking the Scaling Relationship of Ammonia Synthesis. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17403-17412	16.4	24
177	Recent Advances of Solid-State NMR Spectroscopy for Microporous Materials. <i>Advanced Materials</i> , 2020 , 32, e2002879	24	25
176	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	16.4	15
175	Beyond the Thermal Equilibrium Limit of Ammonia Synthesis with Dual Temperature Zone Catalyst Powered by Solar Light. <i>Chem</i> , 2019 , 5, 2702-2717	16.2	46
174	The acidic nature of "NMR-invisible" tri-coordinated framework aluminum species in zeolites. <i>Chemical Science</i> , 2019 , 10, 10159-10169	9.4	34
173	Host-Guest Interaction between Methanol and Metal-Organic Framework Cu ₃ Zn _x (btc) ₂ as Revealed by Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 24062-24070	3.8	9
172	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	5.5	18
171	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	3.8	16
170	Solid-State NMR Principles and Techniques. <i>Lecture Notes in Quantum Chemistry II</i> , 2019 , 1-55	0.6	1
169	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	24.3	65
168	Solid-State NMR Characterization of Acid Properties of Zeolites and Solid Acid Catalysts. <i>Lecture Notes in Quantum Chemistry II</i> , 2019 , 159-197	0.6	5
167	Solid-State NMR in Zeolite Catalysis. <i>Lecture Notes in Quantum Chemistry II</i> , 2019 ,	0.6	10
166	In Situ Solid-State NMR Investigation of Catalytic Reactions on Zeolites. <i>Lecture Notes in Quantum Chemistry II</i> , 2019 , 199-254	0.6	2
165	Solid-State NMR Characterization of Host-Guest Interactions. <i>Lecture Notes in Quantum Chemistry II</i> , 2019 , 133-157	0.6	1

164	Observation of an oxonium ion intermediate in ethanol dehydration to ethene on zeolite. <i>Nature Communications</i> , 2019 , 10, 1961	17.4	23
163	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	16.4	22
162	Sustainable Synthesis of Pure Silica Zeolites from a Combined Strategy of Zeolite Seeding and Alcohol Filling. <i>Angewandte Chemie</i> , 2019 , 131, 12266-12270	3.6	0
161	Isolated Interaction Sites in Mesoporous MOF Backbone for Repetitive and Reversible Dynamics in Water. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 973-981	9.5	12
160	Direct observation of tin sites and their reversible interconversion in zeolites by solid-state NMR spectroscopy. <i>Communications Chemistry</i> , 2018 , 1,	6.3	27
159	Efficient synthesis of aluminosilicate RTH zeolite with good catalytic performances in NH ₃ -SCR and MTO reactions. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8705-8711	13	13
158	Synthesis of EU-1/ZSM-48 Co-Crystalline Zeolites from High-Silica EU-1 Seeds: Tailoring Phase Proportions and Promoting Long Crystalline-Phase Stability. <i>Chemistry - A European Journal</i> , 2018 , 24, 6595-6605	4.8	7
157	Tuning Pd/Au Bimetallic Catalysts for Heterogeneous Parahydrogen-Induced Polarization. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 1248-1257	3.8	9
156	Host-guest interaction of styrene and ethylbenzene in MIL-53 studied by solid-state NMR. <i>Solid State Nuclear Magnetic Resonance</i> , 2018 , 90, 1-6	3.1	9
155	Porous Organic Polymers Constructed from Tröger's Base as Efficient Carbon Dioxide Adsorbents and Heterogeneous Catalysts. <i>ChemCatChem</i> , 2018 , 10, 1900-1904	5.2	7
154	Enhanced Photocatalytic Performance of Carbon-Coated TiO ₂ with Surface-Active Carbon Species. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 10948-10955	3.8	14
153	Extra-Framework Aluminum-Assisted Initial C-H Bond Formation in Methanol-to-Olefins Conversion on Zeolite H-ZSM-5. <i>Angewandte Chemie</i> , 2018 , 130, 10354-10358	3.6	16
152	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	6.8	7
151	Formation of aluminum diphosphonate mesostructures: The effect of aluminum source. <i>Journal of Colloid and Interface Science</i> , 2018 , 532, 718-726	9.3	
150	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	3	9
149	Bronsted/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	13.1	67
148	Methanol to Olefins Reaction over Cavity-type Zeolite: Cavity Controls the Critical Intermediates and Product Selectivity. <i>ACS Catalysis</i> , 2018 , 8, 10950-10963	13.1	43
147	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	13.1	56

146	Construction of Porous Aromatic Frameworks with Exceptional Porosity via Building Unit Engineering. <i>Advanced Materials</i> , 2018 , 30, e1804169	24	38
145	Probing the surface of FAO by oxygen-17 dynamic nuclear polarization enhanced solid-state NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 17218-17225	3.6	25
144	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	16.4	59
143	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	3.6	12
142	Heteronuclear correlation experiments of Na-Al in rotating solids. <i>Solid State Nuclear Magnetic Resonance</i> , 2017 , 84, 103-110	3.1	8
141	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	3.8	18
140	Understanding Surface and Interfacial Chemistry in Functional Nanomaterials via Solid-State NMR. <i>Advanced Materials</i> , 2017 , 29, 1605895	24	66
139	Solvent-Free Synthesis of ITQ-12, ITQ-13, and ITQ-17 Zeolites. <i>Chinese Journal of Chemistry</i> , 2017 , 35, 572-576	4.9	10
138	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	5.5	22
137	Highly efficient visible light induced photocatalytic activity of a novel in situ synthesized conjugated microporous poly(benzothiadiazole) π 3N4 composite. <i>Catalysis Science and Technology</i> , 2017 , 7, 418-426	5.5	24
136	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	3.8	19
135	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	3.1	7
134	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	7.3	18
133	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	68.1	177
132	Host-Guest Interactions and Their Catalytic Consequences in Methanol to Olefins Conversion on Zeolites Studied by $^{13}\text{C}/^{27}\text{Al}$ Double-Resonance Solid-State NMR Spectroscopy. <i>ACS Catalysis</i> , 2017 , 7, 6094-6103	13.1	18
131	Structure-directing effect on synthesis of layered aluminophosphates with same topology. <i>Chemical Research in Chinese Universities</i> , 2017 , 33, 513-519	2.2	4
130	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	16.4	73
129	A Hierarchical Bipyridine-Constructed Framework for Highly Efficient Carbon Dioxide Capture and Catalytic Conversion. <i>ChemSusChem</i> , 2017 , 10, 1186-1192	8.3	72

128	Polarization Switching Induced by Slowing the Dynamic Swinglike Motion in a Flexible Organic Dielectric. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 27571-27576	3.8	11
127	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	16.4	45
126	Synergic Effect of Active Sites in Zinc-Modified ZSM-5 Zeolites as Revealed by High-Field Solid-State NMR Spectroscopy. <i>Angewandte Chemie</i> , 2016 , 128, 16058-16062	3.6	7
125	Origin of Zeolite Confinement Revisited by Energy Decomposition Analysis. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 27349-27363	3.8	10
124	Unravelling the Efficient Photocatalytic Activity of Boron-induced Ti Species in the Surface Layer of TiO. <i>Scientific Reports</i> , 2016 , 6, 34765	4.9	37
123	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. <i>Scientific Reports</i> , 2016 , 6, 22019	4.9	4
122	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	5.5	9
121	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	9.6	65
120	Methanol to hydrocarbons reaction over H β zeolites studied by high resolution solid-state NMR spectroscopy: Carbenium ions formation and reaction mechanism. <i>Journal of Catalysis</i> , 2016 , 335, 47-57	7.3	46
119	Acidic Properties and Structure-Activity Correlations of Solid Acid Catalysts Revealed by Solid-State NMR Spectroscopy. <i>Accounts of Chemical Research</i> , 2016 , 49, 655-63	24.3	143
118	Bistable N-H \cdots N hydrogen bonds for reversibly modulating the dynamic motion in an organic co-crystal. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 10868-72	3.6	15
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	5.5	24
116	Direct Detection of Supramolecular Reaction Centers in the Methanol-to-Olefins Conversion over Zeolite H-ZSM-5 by ¹³ C γ Al Solid-State NMR Spectroscopy. <i>Angewandte Chemie</i> , 2016 , 128, 2553-2557	3.6	13
115	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. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 2507-11	16.4	54
114	Valence state alternation of copper species doped in HY zeolite as revealed by paramagnetic relaxation enhancement NMR spectroscopy. <i>Solid State Nuclear Magnetic Resonance</i> , 2016 , 74-75, 10-5	3.1	3
113	Mechanism of alkane H/D exchange over zeolite H-ZSM-5 at low temperature: a combined computational and experimental study. <i>Catalysis Science and Technology</i> , 2016 , 6, 5350-5363	5.5	12
112	An elaborate structure investigation of the chiral polymorph A-enriched zeolite beta. <i>CrystEngComm</i> , 2016 , 18, 1782-1789	3.3	15
111	Rücktitelbild: Direct Detection of Supramolecular Reaction Centers in the Methanol-to-Olefins Conversion over Zeolite H-ZSM-5 by ¹³ C γ Al Solid-State NMR Spectroscopy (Angew. Chem. 7/2016). <i>Angewandte Chemie</i> , 2016 , 128, 2648-2648	3.6	

110	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, 6171-6	16.4	60
109	Methanol carbonylation over copper-modified mordenite zeolite: A solid-state NMR study. <i>Solid State Nuclear Magnetic Resonance</i> , 2016 , 80, 1-6	3.1	21
108	Synthesis of chiral polymorph A-enriched zeolite Beta with an extremely concentrated fluoride route. <i>Scientific Reports</i> , 2015 , 5, 11521	4.9	35
107	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	3.7	34
106	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, 9177-80	5.8	4
105	Mesoporous ZSM-5 Zeolite-Supported Ru Nanoparticles as Highly Efficient Catalysts for Upgrading Phenolic Biomolecules. <i>ACS Catalysis</i> , 2015 , 5, 2727-2734	13.1	113
104	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, 5204-9	16.4	225
103	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	5.5	44
102	Methylbenzene hydrocarbon pool in methanol-to-olefins conversion over zeolite H-ZSM-5. <i>Journal of Catalysis</i> , 2015 , 332, 127-137	7.3	77
101	Observation of ¹ H- ¹³ C and ¹ H- ¹ H 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	3	8
100	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	97
99	Population transfer HMQC for half-integer quadrupolar nuclei. <i>Journal of Chemical Physics</i> , 2015 , 142, 094201	3.9	21
98	Experimental Evidence on the Formation of Ethene through Carbocations in Methanol Conversion over H-ZSM-5 Zeolite. <i>Chemistry - A European Journal</i> , 2015 , 21, 12061-8	4.8	49
97	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	5.5	28
96	Investigation of the Strong Brønsted Acidity in a Novel SAPO-type Molecular Sieve, DNL-6. <i>Journal of Physical Chemistry C</i> , 2015 , 150127131937009	3.8	13
95	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	3.1	7
94	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	1.7	17
93	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	8.1	48

92	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	13	79
91	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, 11382-4	5.8	13
90	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	3.7	9
89	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	13	82
88	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, 12432-43	4.8	110
87	Capturing the Local Adsorption Structures of Carbon Dioxide in Polyamine-Impregnated Mesoporous Silica Adsorbents. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3183-7	6.4	12
86	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, 3068-72	6.4	26
85	Sustainable synthesis of zeolites without addition of both organotemplates and solvents. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4019-25	16.4	177
84	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	13	34
83	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	3.8	41
82	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	3.1	48
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