

# Feng Deng

## List of Publications by Citations

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#	Paper	IF	Citations
217	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> , <b>2007</b> , 129, 11161-71	16.4	291
216	Roles for Cyclopentenyl Cations in the Synthesis of Hydrocarbons from Methanol on Zeolite Catalyst HZSM-5. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 4763-4775	16.4	249
215	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> , <b>2015</b> , 137, 5204-9	16.4	225
214	Understanding the high photocatalytic activity of (B, Ag)-codoped TiO <sub>2</sub> under solar-light irradiation with XPS, solid-state NMR, and DFT calculations. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 1607-16	16.4	201
213	Acid properties of solid acid catalysts characterized by solid-state <sup>31</sup> P NMR of adsorbed phosphorous probe molecules. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 14889-901	3.6	179
212	P NMR Chemical Shifts of Phosphorus Probes as Reliable and Practical Acidity Scales for Solid and Liquid Catalysts. <i>Chemical Reviews</i> , <b>2017</b> , 117, 12475-12531	68.1	177
211	Sustainable synthesis of zeolites without addition of both organotemplates and solvents. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 4019-25	16.4	177
210	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> , <b>2013</b> , 52, 11564-8	16.4	161
209	Boron Environments in B-Doped and (B, N)-Codoped TiO <sub>2</sub> Photocatalysts: A Combined Solid-State NMR and Theoretical Calculation Study. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 2709-2719	3.8	148
208	Acidic Properties and Structure-Activity Correlations of Solid Acid Catalysts Revealed by Solid-State NMR Spectroscopy. <i>Accounts of Chemical Research</i> , <b>2016</b> , 49, 655-63	24.3	143
207	Room temperature activation of methane over Zn modified H-ZSM-5 zeolites: Insight from solid-state NMR and theoretical calculations. <i>Chemical Science</i> , <b>2012</b> , 3, 2932	9.4	136
206	Insights into the dealumination of zeolite HY revealed by sensitivity-enhanced <sup>27</sup> Al DQ-MAS NMR spectroscopy at high field. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 8657-61	16.4	135
205	Theoretical predictions of <sup>31</sup> p NMR chemical shift threshold of trimethylphosphine oxide absorbed on solid acid catalysts. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 4496-505	3.4	123
204	Brønsted/Lewis Acid Synergy in HZSM-5 and HMOR Zeolites Studied by <sup>1</sup> H and <sup>27</sup> Al DQ-MAS Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 22320-22327	3.8	119
203	Location, acid strength, and mobility of the acidic protons in Keggin 12-H <sub>3</sub> PW <sub>12</sub> O <sub>40</sub> : a combined solid-state NMR spectroscopy and DFT quantum chemical calculation study. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 18274-80	16.4	115
202	Mesoporous ZSM-5 Zeolite-Supported Ru Nanoparticles as Highly Efficient Catalysts for Upgrading Phenolic Biomolecules. <i>ACS Catalysis</i> , <b>2015</b> , 5, 2727-2734	13.1	113
201	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> , <b>2014</b> , 20, 12432-43	4.8	110

200	Hydrothermal treatment on ZSM-5 extrudates catalyst for methanol to propylene reaction: Finely tuning the acidic property. <i>Fuel Processing Technology</i> , <b>2015</b> , 129, 130-138	7.2	97
199	A defect-based strategy for the preparation of mesoporous zeolite Y for high-performance catalytic cracking. <i>Journal of Catalysis</i> , <b>2013</b> , 298, 102-111	7.3	97
198	Acid sites in mesoporous Al-SBA-15 material as revealed by solid-state NMR spectroscopy. <i>Microporous and Mesoporous Materials</i> , <b>2006</b> , 92, 22-30	5.3	95
197	Conformation of Surfactant Molecules in the Interlayer of Montmorillonite Studied by <sup>13</sup> C MAS NMR. <i>Clays and Clay Minerals</i> , <b>2004</b> , 52, 350-356	2.1	94
196	Measurement of hetero-nuclear distances using a symmetry-based pulse sequence in solid-state NMR. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 9395-405	3.6	91
195	Probing the Spatial Proximities among Acid Sites in Dealuminated H-Y Zeolite by Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 14486-14494	3.8	91
194	Acidic Strengths of Brønsted and Lewis Acid Sites in Solid Acids Scaled by <sup>31</sup> P NMR Chemical Shifts of Adsorbed Trimethylphosphine. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 7660-7667	3.8	85
193	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> , <b>2014</b> , 2, 17994-18004	13	82
192	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> , <b>2009</b> , 19, 4843		82
191	MAS NMR Studies on the Dealumination of Zeolite MCM-22. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 1770-1779	3.4	80
190	High performance nanosheet-like silicoaluminophosphate molecular sieves: synthesis, 3D EDT structural analysis and MTO catalytic studies. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 17828-17839	13	79
189	<sup>31</sup> P chemical shift of adsorbed trialkylphosphine oxides for acidity characterization of solid acids catalysts. <i>Journal of Physical Chemistry A</i> , <b>2008</b> , 112, 7349-56	2.8	79
188	Methylbenzene hydrocarbon pool in methanol-to-olefins conversion over zeolite H-ZSM-5. <i>Journal of Catalysis</i> , <b>2015</b> , 332, 127-137	7.3	77
187	Insight into Dimethyl Ether Carbonylation Reaction over Mordenite Zeolite from in-Situ Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 5840-5847	3.8	75
186	Relationship between <sup>1</sup> H chemical shifts of deuterated pyridinium ions and Brønsted acid strength of solid acids. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 3085-9	3.4	74
185	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> , <b>2005</b> , 109, 24273-9	3.4	74
184	Transfer Channel of Photoinduced Holes on a TiO Surface As Revealed by Solid-State Nuclear Magnetic Resonance and Electron Spin Resonance Spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 10020-10028	16.4	73
183	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> , <b>2012</b> , 51, 3850-3	16.4	73

182	A Hierarchical Bipyridine-Constructed Framework for Highly Efficient Carbon Dioxide Capture and Catalytic Conversion. <i>ChemSusChem</i> , <b>2017</b> , 10, 1186-1192	8.3	72
181	Theoretical Investigation of the Effects of the Zeolite Framework on the Stability of Carbenium Ions. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 7429-7439	3.8	71
180	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> , <b>2009</b> , 113, 12864-78	2.8	68
179	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> , <b>2003</b> , 107, 2435-2442	3.4	68
178	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> , <b>2018</b> , 8, 69-74	13.1	67
177	Understanding Surface and Interfacial Chemistry in Functional Nanomaterials via Solid-State NMR. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605895	24	66
176	Metal Active Sites and Their Catalytic Functions in Zeolites: Insights from Solid-State NMR Spectroscopy. <i>Accounts of Chemical Research</i> , <b>2019</b> , 52, 2179-2189	24.3	65
175	Self-Assembly of Cetyltrimethylammonium Bromide and Lamellar Zeolite Precursor for the Preparation of Hierarchical MWW Zeolite. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 4512-4521	9.6	65
174	Low-temperature reactivity of Zn <sup>2+</sup> 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> , <b>2013</b> , 135, 6762-5	16.4	64
173	Insights of the Crystallization Process of Molecular Sieve AlPO <sub>4</sub> -5 Prepared by Solvent-Free Synthesis. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 6171-6	16.4	60
172	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> , <b>2018</b> , 57, 10197-10201	16.4	59
171	Reactivity of C1 surface species formed in methane activation on Zn-modified H-ZSM-5 zeolite. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 14016-25	4.8	58
170	<sup>19</sup> F Chemical Shift of Crystalline Metal Fluorides: Theoretical Predictions Based on Periodic Structure Models. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 15018-15023	3.8	57
169	Acidity of mesoporous MoO <sub>x</sub> /ZrO <sub>2</sub> and WO <sub>x</sub> /ZrO <sub>2</sub> materials: a combined solid-state NMR and theoretical calculation study. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 10662-71	3.4	57
168	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> , <b>2010</b> , 206, 269-73	3	56
167	A Mechanistic Study of Methanol-to-Aromatics Reaction over Ga-Modified ZSM-5 Zeolites: Understanding the Dehydrogenation Process. <i>ACS Catalysis</i> , <b>2018</b> , 8, 9809-9820	13.1	56
166	<sup>13</sup> 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> , <b>2010</b> , 114, 12711-12718	3.8	55
165	Direct Detection of Supramolecular Reaction Centers in the Methanol-to-Olefins Conversion over Zeolite H-ZSM-5 by <sup>13</sup> C-( <sup>27</sup> Al) Solid-State NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 2507-11	16.4	54

164	Acid Sites and Hydration Behavior of Dealuminated Zeolite HZSM-5: A High-Resolution Solid State NMR Study. <i>The Journal of Physical Chemistry</i> , <b>1995</b> , 99, 15208-15214		53
163	Measurement of aluminum-carbon distances using S-RESPDOR NMR experiments. <i>ChemPhysChem</i> , <b>2012</b> , 13, 3605-15	3.2	51
162	Combined Solid-State NMR and Theoretical Calculation Studies of Brønsted Acid Properties in Anhydrous 12-Molybdophosphoric Acid. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 15464-15472	3.8	50
161	Experimental Evidence on the Formation of Ethene through Carbocations in Methanol Conversion over H-ZSM-5 Zeolite. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 12061-8	4.8	49
160	Second-Order Nonlinear Optical Switch of a New Hydrogen-Bonded Supramolecular Crystal with a High Laser-Induced Damage Threshold. <i>Advanced Optical Materials</i> , <b>2014</b> , 2, 1199-1205	8.1	48
159	Acidity characterization of heterogeneous catalysts by solid-state NMR spectroscopy using probe molecules. <i>Solid State Nuclear Magnetic Resonance</i> , <b>2013</b> , 55-56, 12-27	3.1	48
158	Crystallization of AlPO <sub>4</sub> -5 aluminophosphate molecular sieve prepared in fluoride medium: a multinuclear solid-state NMR study. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 7105-13	3.4	48
157	Beyond the Thermal Equilibrium Limit of Ammonia Synthesis with Dual Temperature Zone Catalyst Powered by Solar Light. <i>Chem</i> , <b>2019</b> , 5, 2702-2717	16.2	46
156	Methanol to hydrocarbons reaction over H <sub>2</sub> zeolites studied by high resolution solid-state NMR spectroscopy: Carbenium ions formation and reaction mechanism. <i>Journal of Catalysis</i> , <b>2016</b> , 335, 47-57	7.3	46
155	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> , <b>2016</b> , 55, 15826-15830	16.4	45
154	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> , <b>2015</b> , 5, 3507-3517	5.5	44
153	Reactivity enhancement of 2-propanol photocatalysis on SO <sub>4</sub> ( <sup>2-</sup> )/TiO <sub>2</sub> : insights from solid-state NMR spectroscopy. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 5316-21	10.3	44
152	Methanol to Olefins Reaction over Cavity-type Zeolite: Cavity Controls the Critical Intermediates and Product Selectivity. <i>ACS Catalysis</i> , <b>2018</b> , 8, 10950-10963	13.1	43
151	Alkylation of Benzene with Methane over ZnZSM-5 Zeolites Studied with Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 4018-4023	3.8	41
150	Acidity of sulfated tin oxide and sulfated zirconia: A view from solid-state NMR spectroscopy. <i>Catalysis Communications</i> , <b>2009</b> , 10, 920-924	3.2	41
149	New insights into Keggin-type 12-tungstophosphoric acid from <sup>31</sup> P MAS NMR analysis of absorbed trimethylphosphine oxide and DFT calculations. <i>Chemistry - an Asian Journal</i> , <b>2011</b> , 6, 137-48	4.5	40
148	Amine Surface Modifications and Fluorescent Labeling of Thermally Stabilized Mesoporous Silicon Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 22307-22314	3.8	38
147	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> , <b>2007</b> , 111, 999-1004	3.8	38

146	Construction of Porous Aromatic Frameworks with Exceptional Porosity via Building Unit Engineering. <i>Advanced Materials</i> , <b>2018</b> , 30, e1804169	24	38
145	Unravelling the Efficient Photocatalytic Activity of Boron-induced Ti Species in the Surface Layer of TiO. <i>Scientific Reports</i> , <b>2016</b> , 6, 34765	4.9	37
144	Influence of acid strength on the reactivity of alkane activation on solid acid catalysts: A theoretical calculation study. <i>Microporous and Mesoporous Materials</i> , <b>2012</b> , 151, 241-249	5.3	37
143	Fluorine-planted titanosilicate with enhanced catalytic activity in alkene epoxidation with hydrogen peroxide. <i>Catalysis Science and Technology</i> , <b>2012</b> , 2, 2433	5.5	37
142	Synthesis of chiral polymorph A-enriched zeolite Beta with an extremely concentrated fluoride route. <i>Scientific Reports</i> , <b>2015</b> , 5, 11521	4.9	35
141	Pore Selectivity for Olefin Protonation Reactions Confined inside Mordenite Zeolite: A Theoretical Calculation Study. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 2194-2202	3.8	35
140	The acidic nature of "NMR-invisible" tri-coordinated framework aluminum species in zeolites. <i>Chemical Science</i> , <b>2019</b> , 10, 10159-10169	9.4	34
139	F-assisted synthesis of a hierarchical ZSM-5 zeolite for methanol to propylene reaction: a b-oriented thinner dimensional morphology. <i>RSC Advances</i> , <b>2015</b> , 5, 61354-61363	3.7	34
138	Highly nitrogen-doped mesoscopic carbons as efficient metal-free electrocatalysts for oxygen reduction reactions. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 20030-20037	13	34
137	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> , <b>2010</b> , 114, 10254-10264	3.8	34
136	Enhancement of Brønsted acidity in zeolitic catalysts due to an intermolecular solvent effect in confined micropores. <i>Chemical Communications</i> , <b>2012</b> , 48, 6936-8	5.8	33
135	Solid-state MAS NMR detection of the oxidation center in TS-1 zeolite by in situ probe reaction. <i>Journal of Catalysis</i> , <b>2004</b> , 221, 670-673	7.3	33
134	Solid-state NMR studies of methanol-to-aromatics reaction over silver exchanged HZSM-5 zeolite. <i>Microporous and Mesoporous Materials</i> , <b>2007</b> , 98, 214-219	5.3	31
133	Signal enhancement of J-HMQC experiments in solid-state NMR involving half-integer quadrupolar nuclei. <i>Chemical Communications</i> , <b>2013</b> , 49, 6653-5	5.8	29
132	Recent Advances of Solid-State NMR Studies on Zeolites. <i>Annual Reports on NMR Spectroscopy</i> , <b>2013</b> , 78, 1-54	1.7	29
131	Progress in development and application of solid-state NMR for solid acid catalysis. <i>Chinese Journal of Catalysis</i> , <b>2013</b> , 34, 436-491	11.3	29
130	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> , <b>2011</b> , 358, 252-60	9.3	29
129	Strong or weak acid, which is more efficient for Beckmann rearrangement reaction over solid acid catalysts?. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 3675-3681	5.5	28

128	Solvent-Free Synthesis of Silicoaluminophosphate Zeolites. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 9342-9345	3.6	28
127	Formation, Location, and Photocatalytic Reactivity of Methoxy Species on Keggin 12-H3PW12O40: A Joint Solid-State NMR Spectroscopy and DFT Calculation Study. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 15765-15770	3.8	28
126	Solid state NMR study of acid sites formed by adsorption of SO <sub>3</sub> onto gamma-Al <sub>2</sub> O <sub>3</sub> . <i>Chemical Communications</i> , <b>2003</b> , 884-5	5.8	28
125	A Hydrothermally Stable Irreducible Oxide-Modified Pd/MgAl O Catalyst for Methane Combustion. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 18522-18526	16.4	27
124	Direct observation of tin sites and their reversible interconversion in zeolites by solid-state NMR spectroscopy. <i>Communications Chemistry</i> , <b>2018</b> , 1,	6.3	27
123	Host-Guest Interactions in Dealuminated HY Zeolite Probed by (13)C-(27)Al Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 3068-72	6.4	26
122	Brønsted and Lewis acidity of the BF <sub>3</sub> /gamma-Al <sub>2</sub> O <sub>3</sub> alkylation catalyst as revealed by solid-state NMR spectroscopy and DFT quantum chemical calculations. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 13124-31	3.4	26
121	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</i> , <b>2013</b> , 125, 11778-11782	3.6	25
120	Mesoporous MSU materials functionalized with sulfonic group: A multinuclear NMR and theoretical calculation study. <i>Microporous and Mesoporous Materials</i> , <b>2006</b> , 89, 219-226	5.3	25
119	Recent Advances of Solid-State NMR Spectroscopy for Microporous Materials. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002879	24	25
118	Probing the surface of FAO by oxygen-17 dynamic nuclear polarization enhanced solid-state NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 17218-17225	3.6	25
117	Highly efficient visible light induced photocatalytic activity of a novel in situ synthesized conjugated microporous poly(benzothiadiazole)@3N4 composite. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 418-426	5.5	24
116	Direct observation of methylcyclopentenyl cations (MCP <sup>+</sup> ) and olefin generation in methanol conversion over TON zeolite. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 89-97	5.5	24
115	Molecular engineering of microporous crystals: (IV) Crystallization process of microporous aluminophosphate AlPO <sub>4</sub> -11. <i>Microporous and Mesoporous Materials</i> , <b>2012</b> , 152, 190-207	5.3	24
114	Mechanism of Methanol-to-hydrocarbon Reaction over Zeolites: A solid-state NMR Perspective. <i>ChemCatChem</i> , <b>2020</b> , 12, 965-980	5.2	24
113	Mapping the oxygen structure of FAO by high-field solid-state NMR spectroscopy. <i>Nature Communications</i> , <b>2020</b> , 11, 3620	17.4	24
112	Hydrogen Spillover to Oxygen Vacancy of TiOH/Fe: Breaking the Scaling Relationship of Ammonia Synthesis. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 17403-17412	16.4	24
111	Efficient and selective photocatalytic CH <sub>4</sub> conversion to CH <sub>3</sub> OH with O <sub>2</sub> by controlling overoxidation on TiO <sub>2</sub> . <i>Nature Communications</i> , <b>2021</b> , 12, 4652	17.4	24

110	Observation of an oxonium ion intermediate in ethanol dehydration to ethene on zeolite. <i>Nature Communications</i> , <b>2019</b> , 10, 1961	17.4	23
109	Ammonia Catalyzed Hydrolysis-Condensation Kinetics of Tetraethoxysilane/Dimethyldiethoxysilane Mixtures Studied by <sup>29</sup> Si NMR and SAXS. <i>Journal of Solution Chemistry</i> , <b>2007</b> , 36, 327-344	1.8	23
108	Preferential Occupation of Xenon in Zeolite MCM-22 As Revealed by <sup>129</sup> Xe NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 9426-9432	3.4	23
107	External or internal surface of H-ZSM-5 zeolite, which is more effective for the Beckmann rearrangement reaction?. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 2512-2523	5.5	22
106	Sustainable Synthesis of Pure Silica Zeolites from a Combined Strategy of Zeolite Seeding and Alcohol Filling. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 12138-12142	16.4	22
105	Insights into the Dealumination of Zeolite HY Revealed by Sensitivity-Enhanced <sup>27</sup> Al DQ-MAS NMR Spectroscopy at High Field. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 8839-8843	3.6	22
104	Solid-state P NMR mapping of active centers and relevant spatial correlations in solid acid catalysts. <i>Nature Protocols</i> , <b>2020</b> , 15, 3527-3555	18.8	22
103	Interactions between Cyclic Carbocations and Aromatics Cause Zeolite Deactivation in Methanol-to-Hydrocarbon Conversion. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 7198-7202	16.4	21
102	Population transfer HMQC for half-integer quadrupolar nuclei. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 094201	3.9	21
101	Methanol carbonylation over copper-modified mordenite zeolite: A solid-state NMR study. <i>Solid State Nuclear Magnetic Resonance</i> , <b>2016</b> , 80, 1-6	3.1	21
100	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> , <b>2013</b> , 117, 23626-23637	3.8	20
99	Breaking the T1 constraint for quantitative measurement in magic angle spinning solid-state NMR spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 5538-9	16.4	20
98	Solid-state NMR Studies of Host-Guest Interaction between UiO-67 and Light Alkane at Room Temperature. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 14261-14268	3.8	19
97	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> , <b>2017</b> , 121, 3887-3895	3.8	18
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