

An-Min Zheng

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264
papers

9,580
citations

52
h-index

83
g-index

290
ext. papers

11,476
ext. citations

8.5
avg, IF

6.36
L-index

#	Paper	IF	Citations
264	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, 11161-71	16.4	291
263	Highly mesoporous single-crystalline zeolite beta synthesized using a nonsurfactant cationic polymer as a dual-function template. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2503-10	16.4	214
262	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, 1607-16	16.4	201
261	Dependence of electronic structure of g-C ₃ N ₄ on the layer number of its nanosheets: A study by Raman spectroscopy coupled with first-principles calculations. <i>Carbon</i> , 2014 , 80, 213-221	10.4	200
260	Effects of Cellulose, Hemicellulose, and Lignin on the Structure and Morphology of Porous Carbons. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 3750-3756	8.3	186
259	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, 14889-901	3.6	179
258	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	68.1	177
257	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, 11564-8	16.4	161
256	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	3.8	148
255	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
254	Hydrophobic Solid Acids and Their Catalytic Applications in Green and Sustainable Chemistry. <i>ACS Catalysis</i> , 2018 , 8, 372-391	13.1	138
253	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	9.4	136
252	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, 8657-61	16.4	135
251	Catalytic dehydration of ethanol over post-treated ZSM-5 zeolites. <i>Journal of Catalysis</i> , 2014 , 312, 204-215	15	130
250	Comprehensive investigation of CO ₂ adsorption on MgAl ₂ CO ₃ LDH-derived mixed metal oxides. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12782	13	130
249	Insights into the dual activation mechanism involving bifunctional cinchona alkaloid thiourea organocatalysts: an NMR and DFT study. <i>Journal of Organic Chemistry</i> , 2012 , 77, 9813-25	4.2	125
248	Significant Enhancement of C ₂ H ₂ /C ₂ H ₄ Separation by a Photochromic Diarylethene Unit: A Temperature- and Light-Responsive Separation Switch. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7900-7906	16.4	123

247	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, 4496-505	3.4	123
246	Brønsted/Lewis Acid Synergy in H ₂ SM-5 and HMOR 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	3.8	119
245	Location, acid strength, and mobility of the acidic protons in Keggin 12-H ₃ PW12O ₄₀ : a combined solid-state NMR spectroscopy and DFT quantum chemical calculation study. <i>Journal of the American Chemical Society</i> , 2005 , 127, 18274-80	16.4	115
244	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
243	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
242	 Organic Polymers: Synthetic Control and Its Catalytic Application in Alkyne Hydration Reactions. <i>ACS Catalysis</i> , 2014 , 4, 321-327	13.1	108
241	Selective catalytic production of 5-hydroxymethylfurfural from glucose by adjusting catalyst wettability. <i>ChemSusChem</i> , 2014 , 7, 402-6	8.3	106
240	2D and 3D Porphyrinic Covalent Organic Frameworks: The Influence of Dimensionality on Functionality. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3624-3629	16.4	102
239	Importance of Zeolite Wettability for Selective Hydrogenation of Furfural over Catalysts. <i>ACS Catalysis</i> , 2018 , 8, 474-481	13.1	101
238	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	3.8	91
237	Thermodynamic and molecular insights into the absorption of H ₂ S, CO ₂ , and CH ₄ in choline chloride plus urea mixtures. <i>AIChE Journal</i> , 2019 , 65, e16574	3.6	90
236	Formation pathway for LTA zeolite crystals synthesized via a charge density mismatch approach. <i>Journal of the American Chemical Society</i> , 2013 , 135, 2248-55	16.4	85
235	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	3.8	85
234	Mechanism of myo-inositol hexakisphosphate sorption on amorphous aluminum hydroxide: spectroscopic evidence for rapid surface precipitation. <i>Environmental Science & Technology</i> , 2014 , 48, 6735-42	10.3	81
233	Direct Insight into Ethane Oxidative Dehydrogenation over Boron Nitrides. <i>ChemCatChem</i> , 2017 , 9, 3293-3297	5.2	80
232	Influence of Acid Strength and Confinement Effect on the Ethylene Dimerization Reaction over Solid Acid Catalysts: A Theoretical Calculation Study. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 12687-12695	3.8	79
231	Thiol-chromene click chemistry: a coumarin-based derivative and its use as regenerable thiol probe and in bioimaging applications. <i>Biosensors and Bioelectronics</i> , 2013 , 47, 300-6	11.8	79
230	³¹ P chemical shift of adsorbed trialkylphosphine oxides for acidity characterization of solid acids catalysts. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 7349-56	2.8	79

229	Extra-framework aluminium species in hydrated faujasite zeolite as investigated by two-dimensional solid-state NMR spectroscopy and theoretical calculations. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 3895-903	3.6	77
228	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, 3085-9	3.4	74
227	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, 24273-9	3.4	74
226	One-pot template-free synthesis, growth mechanism and enhanced photocatalytic activity of monodisperse (BiO) ₂ CO ₃ hierarchical hollow microspheres self-assembled with single-crystalline nanosheets. <i>CrystEngComm</i> , 2012 , 14, 3534	3.3	72
225	Design and synthesis of hydrophobic and stable mesoporous polymeric solid acid with ultra strong acid strength and excellent catalytic activities for biomass transformation. <i>Applied Catalysis B: Environmental</i> , 2013 , 136-137, 193-201	21.8	72
224	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	3.8	71
223	Thin-film composite membrane breaking the trade-off between conductivity and selectivity for a flow battery. <i>Nature Communications</i> , 2020 , 11, 13	17.4	67
222	Photoswitching adsorption selectivity in a diarylethene-azobenzene MOF. <i>Chemical Communications</i> , 2017 , 53, 763-766	5.8	63
221	Micro/nano-structured graphitic carbon nitride-Ag nanoparticle hybrids as surface-enhanced Raman scattering substrates with much improved long-term stability. <i>Carbon</i> , 2015 , 87, 193-205	10.4	63
220	Origin and Structural Characteristics of Tri-coordinated Extra-framework Aluminum Species in Dealuminated Zeolites. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10764-10774	16.4	61
219	Functional groups to modify g-C ₃ N ₄ for improved photocatalytic activity of hydrogen evolution from water splitting. <i>Chinese Chemical Letters</i> , 2020 , 31, 1648-1653	8.1	59
218	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	3.8	57
217	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, 10662-71	3.4	57
216	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	3.8	55
215	Efficient biomass transformations catalyzed by graphene-like nanoporous carbons functionalized with strong acid ionic liquids and sulfonic groups. <i>Green Chemistry</i> , 2015 , 17, 480-489	10	53
214	Synthesis and memory characteristics of polyimides containing noncoplanar aryl pendant groups. <i>Polymer</i> , 2012 , 53, 229-240	3.9	53
213	Ultrafast post-synthetic modification of a pillared cobalt(II)-based metal-organic framework via sulfurization of its pores for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11953-11966	13	52
212	Phosphotungstic acid loaded on hydrophilic ionic liquid modified SBA-15 for selective oxidation of alcohols with aqueous H ₂ O ₂ . <i>Microporous and Mesoporous Materials</i> , 2012 , 158, 77-87	5.3	52

211	Combined spectral experiment and theoretical calculation to study the chemosensors of copper and their applications in anion bioimaging. <i>Sensors and Actuators B: Chemical</i> , 2013 , 177, 1189-1197	8.5	51
210	Nonvolatile memory devices based on polyimides bearing noncoplanar twisted biphenyl units containing carbazole and triphenylamine side-chain groups. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15643		51
209	Nitrogen-Decorated, Ordered Mesoporous Carbon Spheres as High-Efficient Catalysts for Selective Capture and Oxidation of H ₂ S. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 7609-7618	8.3	50
208	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	3.8	50
207	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
206	Depolymerization of crystalline cellulose catalyzed by acidic ionic liquids grafted onto sponge-like nanoporous polymers. <i>Chemical Communications</i> , 2013 , 49, 8456-8	5.8	48
205	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
204	Isolated boron in zeolite for oxidative dehydrogenation of propane. <i>Science</i> , 2021 , 372, 76-80	33.3	48
203	Design and preparation of efficient hydroisomerization catalysts by the formation of stable SAPO-11 molecular sieve nanosheets with 10-20 nm thickness and partially blocked acidic sites. <i>Chemical Communications</i> , 2017 , 53, 4942-4945	5.8	46
202	Graphene activated 3D-hierarchical flower-like Li ₂ FeSiO ₄ for high-performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16567-16573	13	46
201	Methanol to hydrocarbons reaction over H ₂ 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
200	A Heterogeneous Metal-Free Catalyst for Hydrogenation: Lewis Acid-Base Pairs Integrated into a Carbon Lattice. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13800-13804	16.4	46
199	Spies Within Metal-Organic Frameworks: Investigating Metal Centers Using Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 23728-23744	3.8	46
198	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
197	Tuning the pore structure of plug-containing Al-SBA-15 by post-treatment and its selectivity for C ₁₆ olefin in ethylene oligomerization. <i>Microporous and Mesoporous Materials</i> , 2014 , 184, 151-161	5.3	44
196	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, 5316-21	10.3	44
195	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
194	Identification of tert-Butyl Cations in Zeolite H-ZSM-5: Evidence from NMR Spectroscopy and DFT Calculations. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 8783-6	16.4	42

193	A novel recognition mechanism supported by experiment and theoretical calculation for hypochlorites recognition and its practical application. <i>Sensors and Actuators B: Chemical</i> , 2016 , 224, 307-314	8.5	41
192	Removal and safe reuse of highly toxic allyl alcohol using a highly selective photo-sensitive metal-organic framework. <i>Green Chemistry</i> , 2016 , 18, 2047-2055	10	41
191	New insights into Keggin-type 12-tungstophosphoric acid from 31P MAS NMR analysis of absorbed trimethylphosphine oxide and DFT calculations. <i>Chemistry - an Asian Journal</i> , 2011 , 6, 137-48	4.5	40
190	Insight into dynamic and steady-state active sites for nitrogen activation to ammonia by cobalt-based catalyst. <i>Nature Communications</i> , 2020 , 11, 653	17.4	39
189	Design of Efficient, Hierarchical Porous Polymers Endowed with Tunable Structural Base Sites for Direct Catalytic Elimination of COS and HS. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 29950-29959	9.5	38
188	Unravelling the Efficient Photocatalytic Activity of Boron-induced Ti Species in the Surface Layer of TiO ₂ . <i>Scientific Reports</i> , 2016 , 6, 34765	4.9	37
187	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	5.3	37
186	Interaction between histidine and Zn(II) metal ions over a wide pH as revealed by solid-state NMR spectroscopy and DFT calculations. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 8954-65	3.4	37
185	Post-synthesis, characterization and catalytic properties of fluorine-planted MWW-type titanosilicate. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 4930-8	3.6	37
184	Zirconium Oxide Supported Palladium Nanoparticles as a Highly Efficient Catalyst in the Hydrogenation/Amination of Levulinic Acid to Pyrrolidones. <i>ChemCatChem</i> , 2017 , 9, 2661-2667	5.2	37
183	Fluorine-planted titanosilicate with enhanced catalytic activity in alkene epoxidation with hydrogen peroxide. <i>Catalysis Science and Technology</i> , 2012 , 2, 2433	5.5	37
182	Interconnected hierarchical HUSY zeolite-loaded Ni nano-particles probed for hydrodeoxygenation of fatty acids, fatty esters, and palm oil. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11330-11341	13	36
181	Polyoxometalate-based ionic complexes immobilized in mesoporous silicas prepared via a one-pot procedure: Efficient and reusable catalysts for H ₂ O ₂ -mediated alcohol oxidations in aqueous media. <i>Microporous and Mesoporous Materials</i> , 2013 , 172, 67-76	5.3	36
180	Mapping Out Chemically Similar, Crystallographically Nonequivalent Hydrogen Sites in Metal-Organic Frameworks by 1H Solid-State NMR Spectroscopy. <i>Chemistry of Materials</i> , 2015 , 27, 3306-3316	9.6	35
179	Two-dimensional graphitic C ₃ N ₅ materials: promising metal-free catalysts and CO ₂ adsorbents. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7168-7174	13	35
178	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	3.8	35
177	Methanol to Olefins Reaction Route Based on Methylcyclopentadienes as Critical Intermediates. <i>ACS Catalysis</i> , 2019 , 9, 7373-7379	13.1	34
176	Diffusion Dependence of the Dual-Cycle Mechanism for MTO Reaction Inside ZSM-12 and ZSM-22 Zeolites. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 22872-22882	3.8	34

175	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
174	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	3.8	34
173	A single Au nanoparticle anchored inside the porous shell of periodic mesoporous organosilica hollow spheres. <i>Nano Research</i> , 2015 , 8, 3404-3411	10	33
172	Differentiating Surface Ce Species among CeO ₂ Facets by Solid-State NMR for Catalytic Correlation. <i>ACS Catalysis</i> , 2020 , 10, 4003-4011	13.1	33
171	Molecular elucidating of an unusual growth mechanism for polycyclic aromatic hydrocarbons in confined space. <i>Nature Communications</i> , 2020 , 11, 1079	17.4	33
170	Enhancement of Brønsted acidity in zeolitic catalysts due to an intermolecular solvent effect in confined micropores. <i>Chemical Communications</i> , 2012 , 48, 6936-8	5.8	33
169	Roles of 8-ring and 12-ring channels in mordenite for carbonylation reaction: From the perspective of molecular adsorption and diffusion. <i>Journal of Catalysis</i> , 2019 , 369, 335-344	7.3	33
168	Promising long-lasting phosphor material: a novel metal-organic framework showing intriguing luminescent performance. <i>Dalton Transactions</i> , 2012 , 41, 13280-3	4.3	32
167	Brønsted/Lewis acid sites synergistically promote the initial C-C bond formation in the MTO reaction. <i>Chemical Science</i> , 2018 , 9, 6470-6479	9.4	32
166	An Extra-Large-Pore Zeolite with 2488-Ring Channels Using a Structure-Directing Agent Derived from Traditional Chinese Medicine. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 6486-6490	16.4	31
165	Effective transformation of cellulose to 5-hydroxymethylfurfural catalyzed by fluorine anion-containing ionic liquid modified biochar sulfonic acids in water. <i>Cellulose</i> , 2017 , 24, 95-106	5.5	31
164	Porous organic materials with ultra-small pores and sulfonic functionality for xenon capture with exceptional selectivity. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11163-11168	13	31
163	Photoswitching storage of guest molecules in metal-organic framework for photoswitchable catalysis: exceptional product, ultrahigh photocontrol, and photomodulated size selectivity. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7961-7967	13	30
162	Identification of three novel polyphenolic compounds, origanine A-C, with unique skeleton from <i>Origanum vulgare</i> L. using the hyphenated LC-DAD-SPE-NMR/MS methods. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 129-35	5.7	30
161	Chemoselectivity during propene hydrogenation reaction over H-ZSM-5 zeolite: Insights from theoretical calculations. <i>Microporous and Mesoporous Materials</i> , 2009 , 121, 158-165	5.3	30
160	Progress in development and application of solid-state NMR for solid acid catalysis. <i>Chinese Journal of Catalysis</i> , 2013 , 34, 436-491	11.3	29
159	Sizable dynamics in small pores: CO location and motion in the Mg formate metal-organic framework. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 6130-6141	3.6	28
158	Transformation synthesis of aluminosilicate SSZ-39 zeolite from ZSM-5 and beta zeolite. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4420-4425	13	28

157	Analyzing Gas Adsorption in an Amide-Functionalized Metal Organic Framework: Are the Carbonyl or Amine Groups Responsible?. <i>Chemistry of Materials</i> , 2018 , 30, 3613-3617	9.6	28
156	Template-free synthesis of porous carbonaceous solid acids with controllable acid sites and their excellent activity for catalyzing the synthesis of biofuels and fine chemicals. <i>Catalysis Science and Technology</i> , 2016 , 6, 2995-3007	5.5	28
155	Mass Transfer Advantage of Hierarchical Zeolites Promotes Methanol Converting into para-Methyl Group in Toluene Methylation. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 9310-9321	3.9	28
154	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
153	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> , 2008 , 112, 15765-15770	3.8	28
152	Prediction of the ¹³ C NMR chemical shifts of organic species adsorbed on H-ZSM-5 zeolite by the ONIOM-GIAO method. <i>Chemical Communications</i> , 2005 , 2474-6	5.8	28
151	Developing two-dimensional solid superacids with enhanced mass transport, extremely high acid strength and superior catalytic performance. <i>Chemical Science</i> , 2019 , 10, 5875-5883	9.4	26
150	Size-dependent sorption of myo-inositol hexakisphosphate and orthophosphate on nano- γ -Al ₂ O ₃ . <i>Journal of Colloid and Interface Science</i> , 2015 , 451, 85-92	9.3	26
149	Fish-in-hole: rationally positioning palladium into traps of zeolite crystals for sinter-resistant catalysts. <i>Chemical Communications</i> , 2018 , 54, 3274-3277	5.8	26
148	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
147	DFT studies on the reaction mechanism of cross-metathesis of ethylene and 2-butylene to propylene over heterogeneous Mo/HBeta catalyst. <i>Journal of Molecular Catalysis A</i> , 2010 , 330, 99-106		26
146	Brønsted and Lewis acidity of the BF ₃ / γ -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, 13124-31	3.4	26
145	¹³ C NMR shielding tensors of carboxyl carbon in amino acids calculated by ONIOM method. <i>Chemical Physics Letters</i> , 2004 , 399, 172-176	2.5	26
144	Origin of weak Lewis acids on silanol nests in dealuminated zeolite Beta. <i>Journal of Catalysis</i> , 2019 , 380, 204-214	7.3	25
143	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> , 2013 , 125, 11778-11782	3.6	25
142	Significant photocatalytic activity enhancement of titania inverse opals by anionic impurities removal in dye molecule degradation. <i>Applied Catalysis B: Environmental</i> , 2013 , 138-139, 219-228	21.8	25
141	(¹³ C) shielding tensors of crystalline amino acids and peptides: Theoretical predictions based on periodic structure models. <i>Journal of Computational Chemistry</i> , 2009 , 30, 222-35	3.5	25
140	Mesoporous MSU materials functionalized with sulfonic group: A multinuclear NMR and theoretical calculation study. <i>Microporous and Mesoporous Materials</i> , 2006 , 89, 219-226	5.3	25

139	Anionic Clusters Enhanced Catalytic Performance of Protic Acid Ionic Liquids for Isobutane Alkylation. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 8271-8280	3.9	25
138	Design and synthesis of micro/meso/macroporous polymers with versatile active sites and excellent activities in the production of biofuels and fine chemicals. <i>Green Chemistry</i> , 2016 , 18, 6536-6544 ¹⁰		25
137	Ordered Mesoporous Polymers for Biomass Conversions and Cross-Coupling Reactions. <i>ChemSusChem</i> , 2016 , 9, 2496-504	8.3	24
136	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
135	Presituated H ₂ O-determined mechanistic route for ethene formation in the methanol-to-olefins process on SAPO-34 catalyst. <i>Journal of Catalysis</i> , 2019 , 377, 153-162	7.3	24
134	Higher Magnetic Fields, Finer MOF Structural Information: O Solid-State NMR at 35.2 T. <i>Journal of the American Chemical Society</i> , 2020 , 142, 14877-14889	16.4	24
133	Cavity-controlled diffusion in 8-membered ring molecular sieve catalysts for shape selective strategy. <i>Journal of Catalysis</i> , 2019 , 377, 51-62	7.3	23
132	pH-sensitive fluorescent salicylaldehyde derivative for selective imaging of hydrogen sulfide in living cells. <i>Sensors and Actuators B: Chemical</i> , 2013 , 186, 212-218	8.5	23
131	Highly efficient single-layer organic light-emitting devices using cationic iridium complex as host. <i>Organic Electronics</i> , 2013 , 14, 744-753	3.5	23
130	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
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128	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
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