

An-Min Zheng

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.

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	Frustrated Lewis Pair in Zeolite Cages for Alkane Activations.. <i>Angewandte Chemie - International Edition</i> , 2022 , e202116269	16.4	2
263	Acidic hierarchical porous ZSM-5 assembled palladium catalyst: A green substitute to transform primary amides to nitriles. <i>Applied Catalysis B: Environmental</i> , 2022 , 302, 120835	21.8	1
262	Diffusive Skin Effect in Zeolites.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 2808-2813	6.4	2
261	Single atomic Cu-Anchored 2D covalent organic framework as a nanoreactor for CO ₂ capture and in-situ conversion: A computational study. <i>Chemical Engineering Science</i> , 2022 , 253, 117536	4.4	1
260	Towards the Efficient Catalytic Valorization of Chitin to N-Acylethanolamine over Ni/CeO ₂ Catalyst: Exploring the Shape-Selective Reactivity. <i>Catalysts</i> , 2022 , 12, 460	4	1
259	In situ imaging of the sorption-induced subcell topological flexibility of a rigid zeolite framework.. <i>Science</i> , 2022 , 376, 491-496	33.3	9
258	Effect of coking and propylene adsorption on enhanced stability for Co ²⁺ -catalyzed propane dehydrogenation. <i>Journal of Catalysis</i> , 2021 , 395, 105-116	7.3	9
257	Synergistically enhance confined diffusion by continuum intersecting channels in zeolites. <i>Science Advances</i> , 2021 , 7,	14.3	11
256	Correlating the Adsorption Preference and Mass Transfer of Xenon in RHO-Type Molecular Sieves. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 6832-6838	3.8	1
255	Rational Design of Synergistic Active Sites for Catalytic Ethene/2-Butene Cross-Metathesis in a Rhenium-Doped Y Zeolite Catalyst. <i>ACS Catalysis</i> , 2021 , 11, 3530-3540	13.1	3
254	Isolated boron in zeolite for oxidative dehydrogenation of propane. <i>Science</i> , 2021 , 372, 76-80	33.3	48
253	Confinement-Driven Flexible Acidity Properties of Porous Zeolite Catalysts with Varied Probe-Assisted Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 11580-11590	3.8	1
252	Surface Fingerprinting of Faceted Metal Oxides and Porous Zeolite Catalysts by Probe-Assisted Solid-State NMR Approaches. <i>Accounts of Chemical Research</i> , 2021 , 54, 2421-2433	24.3	7
251	Thermal resistance effect on anomalous diffusion of molecules under confinement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
250	Electronic-State Manipulation of Surface Titanium Activates Dephosphorylation Over TiO Near Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16149-16155	16.4	2
249	Enhanced hydrothermal stability of Cu/SSZ-39 with increasing Cu contents, and the mechanism of selective catalytic reduction of NO _x . <i>Microporous and Mesoporous Materials</i> , 2021 , 320, 111060	5.3	9
248	Layered double hydroxide membrane with high hydroxide conductivity and ion selectivity for energy storage device. <i>Nature Communications</i> , 2021 , 12, 3409	17.4	19

247	Electronic-State Manipulation of Surface Titanium Activates Dephosphorylation Over TiO ₂ Near Room Temperature. <i>Angewandte Chemie</i> , 2021 , 133, 16285-16291	3.6	3
246	Induced Active Sites by Adsorbate in Zeotype Materials. <i>Journal of the American Chemical Society</i> , 2021 , 143, 8761-8771	16.4	5
245	Molecular Routes of Dynamic Autocatalysis for Methanol-to-Hydrocarbons Reaction. <i>Journal of the American Chemical Society</i> , 2021 , 143, 12038-12052	16.4	10
244	Design of Cobalt-Amine Complex as an Efficient Structure-Directing Agent for One-Pot Synthesis of Co-SSZ-13 Zeolite. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 16343-16349	3.8	3
243	A Cationic Polymerization Strategy to Design Sulfonated Micro-Mesoporous Polymers as Efficient Adsorbents for Ammonia Capture and Separation. <i>Macromolecules</i> , 2021 , 54, 7010-7020	5.5	1
242	Efficiently Selective Oxidation of HS to Elemental Sulfur over Covalent Triazine Framework Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 34124-34133	9.5	7
241	Potassium-directed sustainable synthesis of new high silica small-pore zeolite with KFI structure (ZJM-7) as an efficient catalyst for NH ₃ -SCR reaction. <i>Applied Catalysis B: Environmental</i> , 2021 , 281, 119480	21.8	10
240	In Situ Observation of Non-Classical 2-Norbornyl Cation in Confined Zeolites at Ambient Temperature. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 4581-4587	16.4	3
239	In Situ Observation of Non-Classical 2-Norbornyl Cation in Confined Zeolites at Ambient Temperature. <i>Angewandte Chemie</i> , 2021 , 133, 4631-4637	3.6	1
238	Precisely regulating the Brønsted acidity and catalytic reactivity of novel allylic C ₃ H acidic catalysts. <i>Fuel</i> , 2021 , 289, 119845	7.1	
237	Atom-planting synthesis of MCM-36 catalyst to investigate the influence of pore structure and titanium coordination state on epoxidation activity. <i>Microporous and Mesoporous Materials</i> , 2021 , 310, 110645	5.3	5
236	Gating control effect facilitates excellent gas selectivity in a novel Na-SSZ-27 zeolite. <i>Chemical Communications</i> , 2021 , 57, 4170-4173	5.8	1
235	Röntgenbild: In Situ Observation of Non-Classical 2-Norbornyl Cation in Confined Zeolites at Ambient Temperature (Angew. Chem. 9/2021). <i>Angewandte Chemie</i> , 2021 , 133, 5004-5004	3.6	
234	Stepwise or Concerted Mechanisms of Benzene Ethylation Catalyzed by Zeolites? Theoretical Analysis of Reaction Pathways. <i>Catalysis Letters</i> , 2021 , 151, 3048-3056	2.8	3
233	Dynamic Activation of C ₁ Molecules Evoked by Zeolite Catalysis. <i>ACS Central Science</i> , 2021 , 7, 681-687	16.8	5
232	The first carbon-carbon bond formation mechanism in methanol-to-hydrocarbons process over chabazite zeolite. <i>Chem</i> , 2021 , 7, 2415-2428	16.2	6
231	Molecular Understanding of the Catalytic Consequence of Ketene Intermediates under Confinement. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15440-15452	16.4	6
230	Covalent organic framework shows high isobutene adsorption selectivity from C ₄ hydrocarbons: Mechanism of interpenetration isomerism and pedal motion. <i>Green Energy and Environment</i> , 2020 , 7, 296-296	5.7	2

229	Acidity characterization of solid acid catalysts by solid-state ^{31}P NMR of adsorbed phosphorus-containing probe molecules: An update. <i>Annual Reports on NMR Spectroscopy</i> , 2020 , 65-149	1.7	1
228	Dependence of zeolite topology on alkane diffusion inside diverse channels. <i>AIChE Journal</i> , 2020 , 66, e16269	3.6	6
227	A Cationic Oligomer as an Organic Template for Direct Synthesis of Aluminosilicate ITH Zeolite. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15649-15655	16.4	9
226	A Cationic Oligomer as an Organic Template for Direct Synthesis of Aluminosilicate ITH Zeolite. <i>Angewandte Chemie</i> , 2020 , 132, 15779-15785	3.6	1
225	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
224	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
223	Simultaneous Evaluation of Reaction and Diffusion over Molecular Sieves for Shape-Selective Catalysis. <i>ACS Catalysis</i> , 2020 , 10, 8727-8735	13.1	13
222	Molecular elucidating of an unusual growth mechanism for polycyclic aromatic hydrocarbons in confined space. <i>Nature Communications</i> , 2020 , 11, 1079	17.4	33
221	From One to Two: Acidic Proton Spatial Networks in Porous Zeolite Materials. <i>Chemistry of Materials</i> , 2020 , 32, 1332-1342	9.6	16
220	Modulation of Self-Separating Molecular Catalysts for Highly Efficient Biomass Transformations. <i>Chemistry - A European Journal</i> , 2020 , 26, 11900-11908	4.8	4
219	C chemical shift tensors in MOF Mg (HCOO) : Which component is more sensitive to host-guest interaction?. <i>Magnetic Resonance in Chemistry</i> , 2020 , 58, 1082-1090	2.1	1
218	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
217	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
216	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
215	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
214	Direct synthesis of the organic and Ge free Al containing BOG zeolite (ITQ-47) and its application for transformation of biomass derived molecules. <i>Chemical Science</i> , 2020 , 11, 12103-12108	9.4	2
213	Insight into the effects of acid characteristics on the catalytic performance of Sn-MFI zeolites in the transformation of dihydroxyacetone to methyl lactate. <i>Journal of Catalysis</i> , 2020 , 391, 386-396	7.3	3
212	Water-Induced Structural Dynamic Process in Molecular Sieves under Mild Hydrothermal Conditions: Ship-in-a-Bottle Strategy for Acidity Identification and Catalyst Modification. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20672-20681	16.4	10

211	Water-Induced Structural Dynamic Process in Molecular Sieves under Mild Hydrothermal Conditions: Ship-in-a-Bottle Strategy for Acidity Identification and Catalyst Modification. <i>Angewandte Chemie</i> , 2020 , 132, 20853-20862	3.6	2
210	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
209	Mechanistic insights of selective syngas conversion over Zn grafted on ZSM-5 zeolite. <i>Catalysis Science and Technology</i> , 2020 , 10, 8173-8181	5.5	2
208	Accelerating Biodiesel Catalytic Production by Confined Activation of Methanol over High-Concentration Ionic Liquid-Grafted UiO-66 Solid Superacids. <i>ACS Catalysis</i> , 2020 , 10, 11848-11856	13.1	11
207	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
206	Cooperative catalytically active sites for methanol activation by single metal ion-doped H-ZSM-5. <i>Chemical Science</i> , 2020 , 12, 210-219	9.4	4
205	Mapping the dynamics of methanol and xenon co-adsorption in SWNTs by in situ continuous-flow hyperpolarized Xe NMR. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 3287-3293	3.6	4
204	Ultrathin nanosheets of aluminosilicate FER zeolites synthesized in the presence of a sole small organic ammonium. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16671-16676	13	12
203	Direct Synthesis of Aluminosilicate SSZ-39 Zeolite Using Colloidal Silica as a Starting Source. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 23112-23117	9.5	17
202	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
201	Reactivity descriptors of diverse copper-oxo species on ZSM-5 zeolite towards methane activation. <i>Catalysis Today</i> , 2019 , 338, 108-116	5.3	11
200	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
199	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
198	High population and dispersion of pentacoordinated AlV species on the surface of flame-made amorphous silica-alumina. <i>Science Bulletin</i> , 2019 , 64, 516-523	10.6	15
197	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
196	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
195	Direct probing of heterogeneity for adsorption and diffusion within a SAPO-34 crystal. <i>Chemical Communications</i> , 2019 , 55, 10693-10696	5.8	3
194	Can Hammett indicators accurately measure the acidity of zeolite catalysts with confined space? Insights into the mechanism of coloration. <i>Catalysis Science and Technology</i> , 2019 , 9, 5045-5057	5.5	7

193	Methanol to Olefins Reaction Route Based on Methylcyclopentadienes as Critical Intermediates. <i>ACS Catalysis</i> , 2019 , 9, 7373-7379	13.1	34
192	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
191	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
190	Presituated Brønsted-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
189	Direct Synthesis of Aluminosilicate IWR Zeolite from a Strong Interaction between Zeolite Framework and Organic Template. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18318-18324	16.4	15
188	Violation or Abidance of Löwenstein's Rule in Zeolites Under Synthesis Conditions?. <i>ACS Catalysis</i> , 2019 , 9, 10618-10625	13.1	12
187	Origin of weak Lewis acids on silanol nests in dealuminated zeolite Beta. <i>Journal of Catalysis</i> , 2019 , 380, 204-214	7.3	25
186	N-Oxyl Radicals Trapped on Zeolite Surface Accelerate Photocatalysis. <i>ACS Catalysis</i> , 2019 , 9, 10448-10453	13.1	8
185	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
184	The influence of acid strength and pore size effect on propene elimination reaction over zeolites: A theoretical study. <i>Microporous and Mesoporous Materials</i> , 2019 , 278, 121-129	5.3	9
183	Acid-Base synergistic catalysis of biochar sulfonic acid bearing polyamide for microwave-assisted hydrolysis of cellulose in water. <i>Cellulose</i> , 2019 , 26, 751-762	5.5	14
182	Inspecting the Structure and Formation of Molecular Sieve SAPO-34 via ¹⁷ O Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 7260-7277	3.8	6
181	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
180	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
179	Identifying the effective phosphorous species over modified P-ZSM-5 zeolite: a theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 11702-11712	3.6	14
178	Lithium doping on 2D squaraine-bridged covalent organic polymers for enhancing adsorption properties: a theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 6487-6499	3.6	10
177	An Extra-Large-Pore Zeolite with 2488-Ring Channels Using a Structure-Directing Agent Derived from Traditional Chinese Medicine. <i>Angewandte Chemie</i> , 2018 , 130, 6596-6600	3.6	7
176	Highly Efficient Indirect Hydration of Olefins to Alcohols Using Superacidic Polyoxometalate-Based Ionic Hybrids Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 6654-6663	3.9	15

175	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
174	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
173	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
172	Reaction Route and Mechanism of the Direct N-Alkylation of Sulfonamides on Acidic Mesoporous Zeolite ECatalyst. <i>ACS Catalysis</i> , 2018 , 8, 9043-9055	13.1	15
171	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
170	A Heterogeneous Metal-Free Catalyst for Hydrogenation: Lewis Acid-Base Pairs Integrated into a Carbon Lattice. <i>Angewandte Chemie</i> , 2018 , 130, 13996-14000	3.6	6
169	Solid-State NMR Characterization of Acidity of Solid Catalysts 2018 , 1049-1071		
168	A Molecular Ferroelectric Showing Room-Temperature Record-Fast Switching of Spontaneous Polarization. <i>Angewandte Chemie</i> , 2018 , 130, 9981-9985	3.6	10
167	A Molecular Ferroelectric Showing Room-Temperature Record-Fast Switching of Spontaneous Polarization. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 9833-9837	16.4	21
166	Hydrophobic Solid Acids and Their Catalytic Applications in Green and Sustainable Chemistry. <i>ACS Catalysis</i> , 2018 , 8, 372-391	13.1	138
165	Importance of Zeolite Wettability for Selective Hydrogenation of Furfural over [email[protected]] Catalysts. <i>ACS Catalysis</i> , 2018 , 8, 474-481	13.1	101
164	Innenrücktitelbild: A Heterogeneous Metal-Free Catalyst for Hydrogenation: Lewis Acid-Base Pairs Integrated into a Carbon Lattice (Angew. Chem. 42/2018). <i>Angewandte Chemie</i> , 2018 , 130, 14131-14131	3.6	
163	A nonpolar solvent effect by CH/π interaction inside zeolites: characterization, mechanism and concept. <i>Chemical Communications</i> , 2018 , 54, 13435-13438	5.8	5
162	Pd@Zn-MOF-74: Restricting a Guest Molecule by the Open-Metal Site in a Metal-Organic Framework for Selective Semihydrogenation. <i>Inorganic Chemistry</i> , 2018 , 57, 12444-12447	5.1	19
161	Rationally designing mixed Cu-(ED)-M (M = Cu, Ag, Zn, Au) centers over zeolite materials with high catalytic activity towards methane activation. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 26522-26531	3.6	17
160	To Be or Not To Be Protonated: cyclo-N in Crystal and Solvent. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 7137-7145	6.4	9
159	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
158	Design Synthesis of ITE Zeolite Using Nickel-Amine Complex as an Efficient Structure-Directing Agent. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 33214-33220	9.5	7

157	A porous Brønsted superacid as an efficient and durable solid catalyst. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18712-18719	13	16
156	Gating Mechanism of Aquaporin Z in Synthetic Bilayers and Native Membranes Revealed by Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7885-7895	16.4	17
155	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
154	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
153	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
152	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
151	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
150	Direct Insight into Ethane Oxidative Dehydrogenation over Boron Nitrides. <i>ChemCatChem</i> , 2017 , 9, 3293-3297	5.2	80
149	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
148	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
147	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
146	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
145	Photoswitching adsorption selectivity in a diarylethene-azobenzene MOF. <i>Chemical Communications</i> , 2017 , 53, 763-766	5.8	63
144	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
143	Solid-State NMR Characterization of the Structure and Catalytic Reaction Mechanism of Solid Acid Catalysts. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2017 , 33, 270-282	3.8	4
142	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
141	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
140	Solvent Effect Inside the Nanocage of Zeolite Catalysts: A Combined Solid-State NMR Approach and Multiscale Simulation. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 16921-16931	3.8	6

139	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
138	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
137	Rational Design of Zirconium-doped Titania Photocatalysts with Synergistic Brønsted Acidity and Photoactivity. <i>ChemSusChem</i> , 2016 , 9, 2759-2764	8.3	3
136	Ordered Mesoporous Polymers for Biomass Conversions and Cross-Coupling Reactions. <i>ChemSusChem</i> , 2016 , 9, 2496-504	8.3	24
135	Origin of Zeolite Confinement Revisited by Energy Decomposition Analysis. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 27349-27363	3.8	10
134	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
133	Conjugated polymers with defined chemical structure as model carbon catalysts for nitro reduction. <i>RSC Advances</i> , 2016 , 6, 99570-99576	3.7	6
132	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
131	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
130	Influences of the confinement effect and acid strength of zeolite on the mechanisms of Methanol-to-Olefins conversion over H-ZSM-5: A theoretical study of alkenes-based cycle. <i>Microporous and Mesoporous Materials</i> , 2016 , 231, 216-229	5.3	19
129	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
128	Tristable data storage device of soluble polyimides based on novel asymmetrical diamines containing carbazole. <i>Polymer Chemistry</i> , 2016 , 7, 1765-1772	4.9	21
127	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
126	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
125	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
124	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
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