Jun Xu

List of Publications by Year in Descending Order

288 papers	11,575 citations	59 h-index	95 g-index
307 ext. papers	13,872 ext. citations	8.5 avg, IF	6.53 L-index

#	Paper	IF	Citations
288	Evaluation of neutron beam characteristics for D-BNCT01 facility. *Nuclear Science and Techniques/Hewuli*, **2022**, 33, 1	2.1	0
287	Mechanistic Insight into Ethanol Dehydration over SAPO-34 Zeolite by Solid-state NMR Spectroscopy. *Chemical Research in Chinese Universities*, **2022**, 38, 155-160	2.2	0
286	Application of solid-state NMR techniques for structural characterization of metal-organic frameworks.. *Solid State Nuclear Magnetic Resonance*, **2022**, 117, 101772	3.1	2
285	Defect and interface engineering for electrochemical nitrogen reduction reaction under ambient conditions. *Journal of Energy Chemistry*, **2022**, 65, 448-468	12	8
284	Aluminum-Doped TiO2 with Dominant {001} Facets: Microstructure and Property Evolution and Photocatalytic Activity. *Journal of Physical Chemistry C*, **2022**, 126, 5555-5563	3.8	1
283	Titelbild: Insight into Carbocation-Induced Noncovalent Interactions in the Methanol-to-Olefins Reaction over ZSM-5 Zeolite by Solid-State NMR Spectroscopy (Angew. Chem. 51/2021). *Angewandte Chemie*, **2021**, 133, 26617	3.6	
282	Insight into Carbocation-Induced Noncovalent Interactions in the Methanol-to-Olefins Reaction over ZSM-5 Zeolite by Solid-State NMR Spectroscopy. *Angewandte Chemie - International Edition*, **2021**, 60, 26847-26854	16.4	3
281	Impregnating Subnanometer Metallic Nanocatalysts into Self-Pillared Zeolite Nanosheets. *Journal of the American Chemical Society*, **2021**, 143, 6905-6914	16.4	36
280	Ultrafast Crystallization of AlPO4-5 Molecular Sieve in a Deep Eutectic Solvent. *Journal of Physical Chemistry C*, **2021**, 125, 8876-8889	3.8	6
279	Through-space B- Al correlation: Influence of the recoupling channel. *Magnetic Resonance in Chemistry*, **2021**, 59, 1062-1076	2.1	2
278	Dual Active Sites on Molybdenum/ZSM-5 Catalyst for Methane Dehydroaromatization: Insights from Solid-State NMR Spectroscopy. *Angewandte Chemie*, **2021**, 133, 10804-10810	3.6	2
277	Highly efficient conversion of glucose to methyl lactate over hierarchical bimetal-doped Beta zeolite catalysts. *Journal of Chemical Technology and Biotechnology*, **2021**, 96, 2238	3.5	4
276	Influence of Trimethylphosphine Oxide Loading on the Measurement of Zeolite Acidity by Solid-State NMR Spectroscopy. *Journal of Physical Chemistry C*, **2021**, 125, 9497-9506	3.8	5
275	Dual Active Sites on Molybdenum/ZSM-5 Catalyst for Methane Dehydroaromatization: Insights from Solid-State NMR Spectroscopy. *Angewandte Chemie - International Edition*, **2021**, 60, 10709-10715	16.4	16
274	Interfacial-Bonding TiNC Boosts Efficient Photocatalytic H2 Evolution in Close Coupling g-C3N4/TiO2. *Journal of Physical Chemistry C*, **2021**, 125, 12012-12018	3.8	3
273	Unravelling the strong metal-support interaction between Ru quantum dots and g-C3N4 for visible-light photocatalytic nitrogen fixation. *Applied Catalysis A: General*, **2021**, 617, 118112	5.1	9
272	Facile Preparation of Methyl Phenols from Ethanol over Lamellar Ce(OH)SO4xH2O. *ACS Catalysis*, **2021**, 11, 6162-6174	13.1	2

271	Ionothermal Synthesis of Triclinic SAPO-34 Zeolites. *Catalysts*, **2021**, 11, 616	4	2
270	Host-Guest Interaction in Ethylene and Ethane Separation on Zeolitic Imidazolate Frameworks as Revealed by Solid-State NMR Spectroscopy. *Chemistry - A European Journal*, **2021**, 27, 11303-11308	4.8	3
269	General Synthesis of Ordered Mesoporous Carbonaceous Hybrid Nanostructures with Molecularly Dispersed Polyoxometallates. *Angewandte Chemie - International Edition*, **2021**, 60, 15556-15562	16.4	2
268	Generating Short-Chain Sulfur Suitable for Efficient Sodium Sulfur Batteries via Atomic Copper Sites on a N,O-Codoped Carbon Composite. *Advanced Energy Materials*, **2021**, 11, 2100989	21.8	18
267	DNP-SENS Formulation Protocols To Study Surface Sites in Ziegler Natta Catalyst MgCl2 Supports Modified with Internal Donors. *Journal of Physical Chemistry C*, **2021**, 125, 15994-16003	3.8	3
266	Significant promotion effect of the rutile phase on VO/TiO catalysts for NH-SCR. *Chemical Communications*, **2021**, 57, 355-358	5.8	7
265	Rare earth oxynitrides: promising visible-light-driven photocatalysts for water splitting. *Materials Advances*, **2021**, 2, 1190-1203	3.3	7
264	O solid-state NMR at ultrahigh magnetic field of 35.2 T: Resolution of inequivalent oxygen sites in different phases of MOF MIL-53(Al). *Magnetic Resonance in Chemistry*, **2021**, 59, 940-950	2.1	6
263	X Factor In the Structure and Anion Exchange of Layered Yttrium Hydroxides. *Journal of Physical Chemistry C*, **2021**, 125, 7251-7258	3.8	1
262	Pairwise Stereoselective Hydrogenation of Propyne on Supported Pd Ag Catalysts Investigated by Parahydrogen-Induced Polarization. *Journal of Physical Chemistry C*, **2021**, 125, 17144-17154	3.8	1
261	Efficient and selective photocatalytic CH conversion to CHOH with O by controlling overoxidation on TiO. *Nature Communications*, **2021**, 12, 4652	17.4	24
260	Stabilizing the framework of SAPO-34 zeolite toward long-term methanol-to-olefins conversion. *Nature Communications*, **2021**, 12, 4661	17.4	8
259	Unraveling Hydrocarbon Pool Boosted Propane Aromatization on Gallium/ZSM-5 Zeolite by Solid-State Nuclear Magnetic Resonance Spectroscopy. *Angewandte Chemie*, **2021**, 133, 23822	3.6	0
258	Breathing Effect via Solvent Inclusions on the Linker Rotational Dynamics of Functionalized MIL-53. *Chemistry - A European Journal*, **2021**, 27, 14711-14720	4.8	2
257	Unraveling Hydrocarbon Pool Boosted Propane Aromatization on Gallium/ZSM-5 Zeolite by Solid-State Nuclear Magnetic Resonance Spectroscopy. *Angewandte Chemie - International Edition*, **2021**, 60, 23630-23634	16.4	4
256	Rational design of ionic V-MOF with confined Mo species for highly efficient oxidative desulfurization. *Applied Catalysis B: Environmental*, **2021**, 298, 120594	21.8	8
255	Solid-state NMR studies of internuclear correlations for characterizing catalytic materials. *Chemical Society Reviews*, **2021**, 50, 8382-8399	58.5	7
254	Frontispiece: Subnanometer Bimetallic Platinum Zinc Clusters in Zeolites for Propane Dehydrogenation. *Angewandte Chemie - International Edition*, **2020**, 59,	16.4	2

253	Covalent Encapsulation of Sulfur in a MOF-Derived S, N-Doped Porous Carbon Host Realized via the Vapor-Infiltration Method Results in Enhanced Sodium–Sulfur Battery Performance. *Advanced Energy Materials*, **2020**, 10, 2000931	21.8	63
252	Identification of Singlet Self-Trapped Excitons in a New Family of White-Light-Emitting Zero-Dimensional Compounds. *Journal of Physical Chemistry C*, **2020**, 124, 11625-11630	3.8	18
251	gem-Diol-Type Intermediate in the Activation of a Ketone on Sn-Zeolite as Studied by Solid-State NMR Spectroscopy. *Angewandte Chemie*, **2020**, 132, 19700-19706	3.6	0
250	gem-Diol-Type Intermediate in the Activation of a Ketone on Sn-Zeolite as Studied by Solid-State NMR Spectroscopy. *Angewandte Chemie - International Edition*, **2020**, 59, 19532-19538	16.4	8
249	Adsorptive Separation of Furfural/5-Hydroxymethylfurfural in MAF-5 with Ellipsoidal Pores. *Industrial & Engineering Chemistry Research*, **2020**, 59, 11734-11742	3.9	9
248	Synthesis of Aluminophosphate Molecular Sieves in Alkaline Media. *Chemistry - A European Journal*, **2020**, 26, 11408-11411	4.8	1
247	Establishing a Link Between the Dual Cycles in Methanol-to-Olefins Conversion on H-ZSM-5: Aromatization of Cycloalkenes. *ACS Catalysis*, **2020**, 10, 4299-4305	13.1	11
246	Subnanometer Bimetallic Platinum-Zinc Clusters in Zeolites for Propane Dehydrogenation. *Angewandte Chemie - International Edition*, **2020**, 59, 19450-19459	16.4	85
245	Modified Nano-TiO2 Based Composites for Environmental Photocatalytic Applications. *Catalysts*, **2020**, 10, 759	4	16
244	A Hydrothermally Stable Irreducible Oxide-Modified Pd/MgAl2O4 Catalyst for Methane Combustion. *Angewandte Chemie*, **2020**, 132, 18680-18684	3.6	7
243	A Hydrothermally Stable Irreducible Oxide-Modified Pd/MgAl O Catalyst for Methane Combustion. *Angewandte Chemie - International Edition*, **2020**, 59, 18522-18526	16.4	27
242	Direct synthesis of c-axis-oriented HZSM-5 zeolites in polyacrylamide hydrogel. *Journal of Sol-Gel Science and Technology*, **2020**, 96, 256-263	2.3	1
241	One-Dimensional Lead-Free Halide with Near-Unity Greenish-Yellow Light Emission. *Chemistry of Materials*, **2020**, 32, 6525-6531	9.6	36
240	Primary Adsorption Sites of Light Alkanes in Multivariate UiO-66 at Room Temperature as Revealed by Solid-State NMR. *Journal of Physical Chemistry C*, **2020**, 124, 3738-3746	3.8	8
239	Confined Heteropoly Blues in Defected Zr-MOF (Bottle Around Ship) for High-Efficiency Oxidative Desulfurization. *Small*, **2020**, 16, e1906432	11	38
238	Unravelling the Mystery of Solid Solutions: A Case Study of Y Solid-State NMR Spectroscopy. *ChemPhysChem*, **2020**, 21, 825-836	3.2	1
237	Interactions between Cyclic Carbocations and Aromatics Cause Zeolite Deactivation in Methanol-to-Hydrocarbon Conversion. *Angewandte Chemie*, **2020**, 132, 7265-7269	3.6	5
236	Surface Water Loading on Titanium Dioxide Modulates Photocatalytic Water Splitting. *Cell Reports Physical Science*, **2020**, 1, 100013	6.1	11

235	Interactions between Cyclic Carbocations and Aromatics Cause Zeolite Deactivation in Methanol-to-Hydrocarbon Conversion. *Angewandte Chemie - International Edition*, **2020**, 59, 7198-7202	16.4	21
234	Rare-earth-containing perovskite nanomaterials: design, synthesis, properties and applications. *Chemical Society Reviews*, **2020**, 49, 1109-1143	58.5	96
233	Solid-state NMR for metal-containing zeolites: From active sites to reaction mechanism. *Frontiers of Chemical Science and Engineering*, **2020**, 14, 159-187	4.5	5
232	Resolving the puzzle of single-atom silver dispersion on nanosized AlO surface for high catalytic performance. *Nature Communications*, **2020**, 11, 529	17.4	43
231	Subnanometer Bimetallic PlatinumZinc Clusters in Zeolites for Propane Dehydrogenation. *Angewandte Chemie*, **2020**, 132, 19618-19627	3.6	24
230	Multiple Methane Activation Pathways on Ga-modified ZSM-5 Zeolites Revealed by Solid-State NMR Spectroscopy. *ChemCatChem*, **2020**, 12, 3880-3889	5.2	4
229	Solid-state NMR studies of the acidity of functionalized metal-organic framework UiO-66 materials. *Magnetic Resonance in Chemistry*, **2020**, 58, 1091-1098	2.1	1
228	C chemical shift tensors in MOF Mg (HCOO) : Which component is more sensitive to host-guest interaction?. *Magnetic Resonance in Chemistry*, **2020**, 58, 1082-1090	2.1	1
227	Evidence on Primary Pore Size Dependence of C C Bond Coupling Inside Zr-Based MetalOrganic Frameworks. *Journal of Physical Chemistry C*, **2020**, 124, 24713-24722	3.8	1
226	Revealing Molecular Mechanisms in Hierarchical Nanoporous Carbon via Nuclear Magnetic Resonance. *Matter*, **2020**, 3, 2093-2107	12.7	11
225	Mechanism of Methanol-to-hydrocarbon Reaction over Zeolites: A solid-state NMR Perspective. *ChemCatChem*, **2020**, 12, 965-980	5.2	24
224	Effect of treatment atmosphere on the vanadium species of V/TiO2 catalysts for the selective catalytic reduction of NOx with NH3. *Catalysis Science and Technology*, **2020**, 10, 311-314	5.5	10
223	Conversion of Dihydroxyacetone to Methyl Pyruvate Catalyzed by Hybrid Molecular Sieves at Low Temperature: A Strategy for the Green Utilization of Glycerol. *Catalysis Letters*, **2020**, 150, 1641-1649	2.8	0
222	Solid-state P NMR mapping of active centers and relevant spatial correlations in solid acid catalysts. *Nature Protocols*, **2020**, 15, 3527-3555	18.8	22
221	Quantitative Analysis of Linker Composition and Spatial Arrangement of Multivariate MetalOrganic Framework UiO-66 through 1H Fast MAS NMR. *Journal of Physical Chemistry C*, **2020**, 124, 17640-17647	3.8	6
220	Mapping the oxygen structure of AlO by high-field solid-state NMR spectroscopy. *Nature Communications*, **2020**, 11, 3620	17.4	24
219	Higher Magnetic Fields, Finer MOF Structural Information: O Solid-State NMR at 35.2 T. *Journal of the American Chemical Society*, **2020**, 142, 14877-14889	16.4	24
218	Probing the active sites for methane activation on Ga/ZSM-5 zeolites with solid-state NMR spectroscopy. *Chemical Communications*, **2020**, 56, 12029-12032	5.8	1

217	Hydrogen Spillover to Oxygen Vacancy of TiOH/Fe: Breaking the Scaling Relationship of Ammonia Synthesis. *Journal of the American Chemical Society*, **2020**, 142, 17403-17412	16.4	24
216	Multimodal Luminescent Yb /Er /Bi -Doped Perovskite Single Crystals for X-ray Detection and Anti-Counterfeiting. *Advanced Materials*, **2020**, 32, e2004506	24	88
215	Recent Advances of Solid-State NMR Spectroscopy for Microporous Materials. *Advanced Materials*, **2020**, 32, e2002879	24	25
214	Promoting dimethyl ether carbonylation over hot-water pretreated H-mordenite. *Catalysis Today*, **2020**, 339, 86-92	5.3	8
213	Ultrathin 2D Rare-Earth Nanomaterials: Compositions, Syntheses, and Applications. *Advanced Materials*, **2020**, 32, e1806461	24	53
212	Oxidative Desulfurization: Confined Heteropoly Blues in Defected Zr-MOF (Bottle Around Ship) for High-Efficiency Oxidative Desulfurization (Small 14/2020). *Small*, **2020**, 16, 2070077	11	1
211	Beyond the Thermal Equilibrium Limit of Ammonia Synthesis with Dual Temperature Zone Catalyst Powered by Solar Light. *CheM*, **2019**, 5, 2702-2717	16.2	46
210	Dual-Mode, Color-Tunable, Lanthanide-Doped Core-Shell Nanoarchitectures for Anti-Counterfeiting Inks and Latent Fingerprint Recognition. *ACS Applied Materials & Interfaces* , **2019**, 11, 35294-35304	9.5	61
209	The acidic nature of "NMR-invisible" tri-coordinated framework aluminum species in zeolites. *Chemical Science*, **2019**, 10, 10159-10169	9.4	34
208	Host□Guest Interaction between Methanol and Metal□Organic Framework Cu3□Znx(btc)2 as Revealed by Solid-State NMR. *Journal of Physical Chemistry C*, **2019**, 123, 24062-24070	3.8	9
207	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. *Catalysis Science and Technology*, **2019**, 9, 659-671	5.5	18
206	Origin of High Selectivity of Dimethyl Ether Carbonylation in the 8-Membered Ring Channel of Mordenite Zeolite. *Journal of Physical Chemistry C*, **2019**, 123, 15503-15512	3.8	16
205	Iron detection and remediation with a functionalized porous polymer applied to environmental water samples. *Chemical Science*, **2019**, 10, 6651-6660	9.4	22
204	Metal Active Sites and Their Catalytic Functions in Zeolites: Insights from Solid-State NMR Spectroscopy. *Accounts of Chemical Research*, **2019**, 52, 2179-2189	24.3	65
203	Stellerite-seeded facile synthesis of zeolite heulandite with exceptional aqueous Cd2+ capture performance. *Inorganic Chemistry Frontiers*, **2019**, 6, 1785-1792	6.8	5
202	Observation of an oxonium ion intermediate in ethanol dehydration to ethene on zeolite. *Nature Communications*, **2019**, 10, 1961	17.4	23
201	Synthesis and structure of a family of rhodium polystannide clusters [Rh@Sn], [Rh@Sn], [Rh@Sn] and the first triply-fused stannide, [Rh@Sn]. *Chemical Science*, **2019**, 10, 4394-4401	9.4	27
200	Rare earth double perovskites: a fertile soil in the field of perovskite oxides. *Inorganic Chemistry Frontiers*, **2019**, 6, 2226-2238	6.8	28

199	Sustainable Synthesis of Pure Silica Zeolites from a Combined Strategy of Zeolite Seeding and Alcohol Filling. *Angewandte Chemie - International Edition*, **2019**, 58, 12138-12142	16.4	22
198	Sustainable Synthesis of Pure Silica Zeolites from a Combined Strategy of Zeolite Seeding and Alcohol Filling. *Angewandte Chemie*, **2019**, 131, 12266-12270	3.6	0
197	Effect of Ionothermal Synthesis on the Acidity and Catalytic Performance of a SAPO-5 Molecular Sieve. *ChemistrySelect*, **2019**, 4, 10520-10524	1.8	4
196	Amine Dynamics in Diamine-Appended Mg(dobpdc) Metal-Organic Frameworks. *Journal of Physical Chemistry Letters*, **2019**, 10, 7044-7049	6.4	10
195	All in one theranostic nanoplatform enables efficient anti-tumor peptide delivery for triple-modal imaging guided cancer therapy. *Nano Research*, **2019**, 12, 593-599	10	18
194	Carbon-based derivatives from metal-organic frameworks as cathode hosts for Li□ batteries. *Journal of Energy Chemistry*, **2019**, 38, 94-113	12	61
193	Dynamic Nuclear Polarization Surface Enhanced NMR spectroscopy (DNP SENS): Principles, protocols, and practice. *Current Opinion in Colloid and Interface Science*, **2018**, 33, 63-71	7.6	34
192	Chelating N-Heterocyclic Carbene Ligands Enable Tuning of Electrocatalytic CO2 Reduction to Formate and Carbon Monoxide: Surface Organometallic Chemistry. *Angewandte Chemie*, **2018**, 130, 5075-5079	3.6	30
191	Chelating N-Heterocyclic Carbene Ligands Enable Tuning of Electrocatalytic CO Reduction to Formate and Carbon Monoxide: Surface Organometallic Chemistry. *Angewandte Chemie - International Edition*, **2018**, 57, 4981-4985	16.4	81
190	Direct observation of tin sites and their reversible interconversion in zeolites by solid-state NMR spectroscopy. *Communications Chemistry*, **2018**, 1,	6.3	27
189	Synthesis of EU-1/ZSM-48 Co-Crystalline Zeolites from High-Silica EU-1 Seeds: Tailoring Phase Proportions and Promoting Long Crystalline-Phase Stability. *Chemistry - A European Journal*, **2018**, 24, 6595-6605	4.8	7
188	Unusual bulky solvent molecule encapsulation in the organic-amine-occupied 10-membered ring channels of aluminophosphate molecular sieve AlPO4-11. *Inorganic Chemistry Communication*, **2018**, 88, 6-10	3.1	1
187	Tuning Pd□Au Bimetallic Catalysts for Heterogeneous Parahydrogen-Induced Polarization. *Journal of Physical Chemistry C*, **2018**, 122, 1248-1257	3.8	9
186	Host-guest interaction of styrene and ethylbenzene in MIL-53 studied by solid-state NMR. *Solid State Nuclear Magnetic Resonance*, **2018**, 90, 1-6	3.1	9
185	Enhanced Photocatalytic Performance of Carbon-Coated TiO2□ with Surface-Active Carbon Species. *Journal of Physical Chemistry C*, **2018**, 122, 10948-10955	3.8	14
184	Encapsulation of bulky solvent molecules into the channels of aluminophosphate molecular sieve and its negative influence on the thermal stability of open-framework. *Inorganic Chemistry Communication*, **2018**, 91, 67-71	3.1	1
183	Electrolytes for Batteries with Earth-Abundant Metal Anodes. *Chemistry - A European Journal*, **2018**, 24, 18220-18234	4.8	36
182	Extra-Framework Aluminum-Assisted Initial C□□ Bond Formation in Methanol-to-Olefins Conversion on Zeolite H-ZSM-5. *Angewandte Chemie*, **2018**, 130, 10354-10358	3.6	16

181	New insights into the di-n-propylamine (DPA) molecule as an organic structural directing agent (OSDA) in the crystallization of AlPO4-11 molecular sieve. *Inorganic Chemistry Frontiers*, **2018**, 5, 1633-1639	6.8	7
180	Tuning Gold Nanoparticles with Chelating Ligands for Highly Efficient Electrocatalytic CO Reduction. *Angewandte Chemie - International Edition*, **2018**, 57, 12675-12679	16.4	78
179	Formation of aluminum diphosphonate mesostructures: The effect of aluminum source. *Journal of Colloid and Interface Science*, **2018**, 532, 718-726	9.3	
178	Tuning Gold Nanoparticles with Chelating Ligands for Highly Efficient Electrocatalytic CO2 Reduction. *Angewandte Chemie*, **2018**, 130, 12857-12861	3.6	29
177	Uniform signal enhancement in MAS NMR of half-integer quadrupolar nuclei using quadruple-frequency sweeps. *Journal of Magnetic Resonance*, **2018**, 293, 92-103	3	9
176	Brønsted/Lewis Acid Synergy in Methanol-to-Aromatics Conversion on Ga-Modified ZSM-5 Zeolites, As Studied by Solid-State NMR Spectroscopy. *ACS Catalysis*, **2018**, 8, 69-74	13.1	67
175	Solid-State NMR Investigations of Carbon Dioxide Gas in Metal-Organic Frameworks: Insights into Molecular Motion and Adsorptive Behavior. *Chemical Reviews*, **2018**, 118, 10033-10048	68.1	62
174	Methanol to Olefins Reaction over Cavity-type Zeolite: Cavity Controls the Critical Intermediates and Product Selectivity. *ACS Catalysis*, **2018**, 8, 10950-10963	13.1	43
173	A Mechanistic Study of Methanol-to-Aromatics Reaction over Ga-Modified ZSM-5 Zeolites: Understanding the Dehydrogenation Process. *ACS Catalysis*, **2018**, 8, 9809-9820	13.1	56
172	Construction of Porous Aromatic Frameworks with Exceptional Porosity via Building Unit Engineering. *Advanced Materials*, **2018**, 30, e1804169	24	38
171	Ionothermal Synthesis of Hollow Aluminophosphate Molecular Sieves. *Particle and Particle Systems Characterization*, **2018**, 35, 1800125	3.1	2
170	Probing the surface of γ-Al2O3 by oxygen-17 dynamic nuclear polarization enhanced solid-state NMR spectroscopy. *Physical Chemistry Chemical Physics*, **2018**, 20, 17218-17225	3.6	25
169	Extra-Framework Aluminum-Assisted Initial C-C Bond Formation in Methanol-to-Olefins Conversion on Zeolite H-ZSM-5. *Angewandte Chemie - International Edition*, **2018**, 57, 10197-10201	16.4	59
168	Facet dependent pairwise addition of hydrogen over Pd nanocrystal catalysts revealed via NMR using para-hydrogen-induced polarization. *Physical Chemistry Chemical Physics*, **2017**, 19, 9349-9353	3.6	12
167	Highly Stable Sodium Batteries Enabled by Functional Ionic Polymer Membranes. *Advanced Materials*, **2017**, 29, 1605512	24	151
166	Heteronuclear correlation experiments of Na-Al in rotating solids. *Solid State Nuclear Magnetic Resonance*, **2017**, 84, 103-110	3.1	8
165	Understanding Surface and Interfacial Chemistry in Functional Nanomaterials via Solid-State NMR. *Advanced Materials*, **2017**, 29, 1605895	24	66
164	External or internal surface of H-ZSM-5 zeolite, which is more effective for the Beckmann rearrangement reaction?. *Catalysis Science and Technology*, **2017**, 7, 2512-2523	5.5	22

163	Highly effective ammonia removal in a series of Br□sted acidic porous polymers: investigation of chemical and structural variations. *Chemical Science*, **2017**, 8, 4399-4409	9.4	62
162	Solid-state NMR Studies of Host□Guest Interaction between UiO-67 and Light Alkane at Room Temperature. *Journal of Physical Chemistry C*, **2017**, 121, 14261-14268	3.8	19
161	Identification of double four-ring units in germanosilicate ITQ-13 zeolite by solid-state NMR spectroscopy. *Solid State Nuclear Magnetic Resonance*, **2017**, 87, 1-9	3.1	7
160	A Microporous Amic Acid Polymer for Enhanced Ammonia Capture. *ACS Applied Materials & Interfaces*, **2017**, 9, 33504-33510	9.5	20
159	Carbonylation of ethane with carbon monoxide over Zn-modified ZSM-5 zeolites studied by in situ solid-state NMR spectroscopy. *Journal of Catalysis*, **2017**, 345, 228-235	7.3	18
158	ZSM-5 extrudates modified with phosphorus as a super effective MTP catalyst: Impact of the acidity on binder. *Fuel Processing Technology*, **2017**, 168, 105-115	7.2	25
157	P NMR Chemical Shifts of Phosphorus Probes as Reliable and Practical Acidity Scales for Solid and Liquid Catalysts. *Chemical Reviews*, **2017**, 117, 12475-12531	68.1	177
156	Solid-State NMR Characterization of the Structure and Catalytic Reaction Mechanism of Solid Acid Catalysts. *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, **2017**, 33, 270-282	3.8	4
155	Uncovering the Local Magnesium Environment in the Metal□Organic Framework Mg2(dobpdc) Using 25Mg NMR Spectroscopy. *Journal of Physical Chemistry C*, **2017**, 121, 19938-19945	3.8	13
154	Impact of temporal and spatial distribution of hydrocarbon pool on methanol conversion over H-ZSM-5. *Journal of Catalysis*, **2017**, 354, 138-151	7.3	19
153	Host□Guest Interactions and Their Catalytic Consequences in Methanol to Olefins Conversion on Zeolites Studied by 13C□27Al Double-Resonance Solid-State NMR Spectroscopy. *ACS Catalysis*, **2017**, 7, 6094-6103	13.1	18
152	Structure-directing effect on synthesis of layered aluminophosphates with same topology. *Chemical Research in Chinese Universities*, **2017**, 33, 513-519	2.2	4
151	Influence of fluoride ions on the structure-directing effect of organic amine in the synthesis of aluminophosphate open-frameworks. *Chemical Research in Chinese Universities*, **2017**, 33, 853-859	2.2	3
150	Transfer Channel of Photoinduced Holes on a TiO Surface As Revealed by Solid-State Nuclear Magnetic Resonance and Electron Spin Resonance Spectroscopy. *Journal of the American Chemical Society*, **2017**, 139, 10020-10028	16.4	73
149	The Low-Temperature Oxidation of Propane by using H2O2 and Fe/ZSM-5 Catalysts: Insights into the Active Site and Enhancement of Catalytic Turnover Frequencies. *ChemCatChem*, **2017**, 9, 642-650	5.2	11
148	The structure-directing effect of organic amines in the multi-template/one-structure phenomenon of microporous crystal synthesis. *Microporous and Mesoporous Materials*, **2017**, 240, 178-188	5.3	2
147	Solid-State NMR Studies of Zeolites. *Green Chemistry and Sustainable Technology*, **2016**, 231-268	1.1	
146	Synergic Effect of Active Sites in Zinc-Modified ZSM-5 Zeolites as Revealed by High-Field Solid-State NMR Spectroscopy. *Angewandte Chemie - International Edition*, **2016**, 55, 15826-15830	16.4	45

145	Synergic Effect of Active Sites in Zinc-Modified ZSM-5 Zeolites as Revealed by High-Field Solid-State NMR Spectroscopy. *Angewandte Chemie*, **2016**, 128, 16058-16062	3.6	7
144	Origin of Zeolite Confinement Revisited by Energy Decomposition Analysis. *Journal of Physical Chemistry C*, **2016**, 120, 27349-27363	3.8	10
143	Unravelling the Efficient Photocatalytic Activity of Boron-induced Ti Species in the Surface Layer of TiO. *Scientific Reports*, **2016**, 6, 34765	4.9	37
142	Temperature-dependence of the influence of the position-2-methyl group on the structure-directing effect of piperazine in the synthesis of open-framework aluminophosphates. *Scientific Reports*, **2016**, 6, 22019	4.9	4
141	Copper Capture in a Thioether-Functionalized Porous Polymer Applied to the Detection of Wilson's Disease. *Journal of the American Chemical Society*, **2016**, 138, 7603-9	16.4	99
140	A Molecular Surface Functionalization Approach to Tuning Nanoparticle Electrocatalysts for Carbon Dioxide Reduction. *Journal of the American Chemical Society*, **2016**, 138, 8120-5	16.4	272
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