

# Jun Xu

## List of Publications by Year in descending order

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298  
papers

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12330

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307  
docs citations

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times ranked

14127  
citing authors

#	ARTICLE	IF	CITATIONS
1	Targeted Synthesis of a Porous Aromatic Framework with High Stability and Exceptionally High Surface Area. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9457-9460.	13.8	1,272
2	Gas storage in porous aromatic frameworks (PAFs). <i>Energy and Environmental Science</i> , 2011, 4, 3991.	30.8	429
3	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, 11161-11171.	13.7	349
4	A Molecular Surface Functionalization Approach to Tuning Nanoparticle Electrocatalysts for Carbon Dioxide Reduction. <i>Journal of the American Chemical Society</i> , 2016, 138, 8120-8125.	13.7	340
5	Roles for Cyclopentenyl Cations in the Synthesis of Hydrocarbons from Methanol on Zeolite Catalyst HZSM-5. <i>Journal of the American Chemical Society</i> , 2000, 122, 4763-4775.	13.7	296
6	<sup>31</sup> 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.	47.7	258
7	Sustainable Synthesis of Zeolites without Addition of Both Organotemplates and Solvents. <i>Journal of the American Chemical Society</i> , 2014, 136, 4019-4025.	13.7	233
8	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> , 2013, 135, 1607-1616.	13.7	230
9	Subnanometer Bimetallic Platinum-Zinc Clusters in Zeolites for Propane Dehydrogenation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19450-19459.	13.8	221
10	Highly Stable Sodium Batteries Enabled by Functional Ionic Polymer Membranes. <i>Advanced Materials</i> , 2017, 29, 1605512.	21.0	214
11	Solvent-Free Synthesis of Silicoaluminophosphate Zeolites. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9172-9175.	13.8	212
12	Rare-earth-containing perovskite nanomaterials: design, synthesis, properties and applications. <i>Chemical Society Reviews</i> , 2020, 49, 1109-1143.	38.1	211
13	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, 11564-11568.	13.8	193
14	Multimodal Luminescent Yb <sup>3+</sup> /Er <sup>3+</sup> /Bi <sup>3+</sup> -Doped Perovskite Single Crystals for X-ray Detection and Anti-Counterfeiting. <i>Advanced Materials</i> , 2020, 32, e2004506.	21.0	187
15	Solvent-Free Synthesis of Zeolites from Anhydrous Starting Raw Solids. <i>Journal of the American Chemical Society</i> , 2015, 137, 1052-1055.	13.7	178
16	Acidic Properties and Structure-Activity Correlations of Solid Acid Catalysts Revealed by Solid-State NMR Spectroscopy. <i>Accounts of Chemical Research</i> , 2016, 49, 655-663.	15.6	177
17	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> , 2010, 49, 8657-8661.	13.8	173
18	Evidence of Pressure Enhanced CO <sub>2</sub> Storage in ZIF-8 Probed by FTIR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2013, 135, 9287-9290.	13.7	171

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19	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> , 2011, 115, 2709-2719.	3.1	164
20	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.	7.4	157
21	Brønsted/Lewis Acid Synergy in H-ZSM-5 and H-MOR 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> , 2011, 115, 22320-22327.	3.1	147
22	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> , 2008, 112, 4496-4505.	2.6	143
23	Copper Capture in a Thioether-Functionalized Porous Polymer Applied to the Detection of Wilson's Disease. <i>Journal of the American Chemical Society</i> , 2016, 138, 7603-7609.	13.7	137
24	New Insight into the Hydrocarbon Pool Chemistry of the Methanol-to-Olefins Conversion over Zeolite H-ZSM-5 from GCMS, Solid-State NMR Spectroscopy, and DFT Calculations. <i>Chemistry - A European Journal</i> , 2014, 20, 12432-12443.	3.3	131
25	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> , 2021, 12, 4652.	12.8	131
26	Location, Acid Strength, and Mobility of the Acidic Protons in Keggin 12-H <sub>3</sub> PW12O <sub>40</sub> : A Combined Solid-State NMR Spectroscopy and DFT Quantum Chemical Calculation Study. <i>Journal of the American Chemical Society</i> , 2005, 127, 18274-18280.	13.7	130
27	Impregnating Subnanometer Metallic Nanocatalysts into Self-Pillared Zeolite Nanosheets. <i>Journal of the American Chemical Society</i> , 2021, 143, 6905-6914.	13.7	124
28	Measurement of hetero-nuclear distances using a symmetry-based pulse sequence in solid-state NMR. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 9395.	2.8	120
29	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. <i>Advanced Energy Materials</i> , 2020, 10, 2000931.	19.5	118
30	Continuous selective oxidation of methane to methanol over Cu- and Fe-modified ZSM-5 catalysts in a flow reactor. <i>Catalysis Today</i> , 2016, 270, 93-100.	4.4	113
31	Dual-Mode, Color-Tunable, Lanthanide-Doped Core-Shell Nanoarchitectures for Anti-Counterfeiting Inks and Latent Fingerprint Recognition. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 35294-35304.	8.0	113
32	Hydrothermal treatment on ZSM-5 extrudates catalyst for methanol to propylene reaction: Finely tuning the acidic property. <i>Fuel Processing Technology</i> , 2015, 129, 130-138.	7.2	112
33	Resolving the puzzle of single-atom silver dispersion on nanosized γ-Al <sub>2</sub> O <sub>3</sub> surface for high catalytic performance. <i>Nature Communications</i> , 2020, 11, 529.	12.8	111
34	Chelating N-Heterocyclic Carbene Ligands Enable Tuning of Electrocatalytic CO <sub>2</sub> Reduction to Formate and Carbon Monoxide: Surface Organometallic Chemistry. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4981-4985.	13.8	110
35	Tuning Gold Nanoparticles with Chelating Ligands for Highly Efficient Electrocatalytic CO <sub>2</sub> Reduction. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12675-12679.	13.8	108
36	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> , 2018, 8, 69-74.	11.2	107

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37	Biomimetic photonic materials with tunable structural colors. <i>Journal of Colloid and Interface Science</i> , 2013, 406, 1-17.	9.4	106
38	Metal Active Sites and Their Catalytic Functions in Zeolites: Insights from Solid-State NMR Spectroscopy. <i>Accounts of Chemical Research</i> , 2019, 52, 2179-2189.	15.6	106
39	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.	3.1	105
40	Acidic Strengths of Brønsted and Lewis Acid Sites in Solid Acids Scaled by $^{31}\text{P}$ NMR Chemical Shifts of Adsorbed Trimethylphosphine. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7660-7667.	3.1	104
41	Carbon-based derivatives from metal-organic frameworks as cathode hosts for Li <sup>+</sup> S batteries. <i>Journal of Energy Chemistry</i> , 2019, 38, 94-113.	12.9	104
42	In situ growth-etching approach to the preparation of hierarchically macroporous zeolites with high MTO catalytic activity and selectivity. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17994-18004.	10.3	102
43	Sustainable and Facile Route to Nearly Monodisperse Spherical Aggregates of CeO <sub>2</sub> Nanocrystals with Ionic Liquids and Their Catalytic Activities for CO Oxidation. <i>Journal of Physical Chemistry C</i> , 2008, 112, 18405-18411.	3.1	101
44	A Mechanistic Study of Methanol-to-Aromatics Reaction over Ga-Modified ZSM-5 Zeolites: Understanding the Dehydrogenation Process. <i>ACS Catalysis</i> , 2018, 8, 9809-9820.	11.2	100
45	Insight into Dimethyl Ether Carbonylation Reaction over Mordenite Zeolite from in-Situ Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5840-5847.	3.1	98
46	High performance nanosheet-like silicoaluminophosphate molecular sieves: synthesis, 3D EDT structural analysis and MTO catalytic studies. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17828-17839.	10.3	96
47	Transfer Channel of Photoinduced Holes on a TiO <sub>2</sub> Surface As Revealed by Solid-State Nuclear Magnetic Resonance and Electron Spin Resonance Spectroscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 10020-10028.	13.7	96
48	Au-ZSM-5 catalyses the selective oxidation of CH <sub>4</sub> to CH <sub>3</sub> OH and CH <sub>3</sub> COOH using O <sub>2</sub> . <i>Nature Catalysis</i> , 2022, 5, 45-54.	34.4	95
49	Optical sensors based on functionalized mesoporous silica SBA-15 for the detection of multianalytes (H <sup>+</sup> and Cu <sup>2+</sup> ) in water. <i>Journal of Materials Chemistry</i> , 2007, 17, 4492.	6.7	94
50	Luminescent carbon dots in a new magnesium aluminophosphate zeolite. <i>Chemical Communications</i> , 2013, 49, 9006.	4.1	93
51	Solid-State NMR Investigations of Carbon Dioxide Gas in Metal-Organic Frameworks: Insights into Molecular Motion and Adsorptive Behavior. <i>Chemical Reviews</i> , 2018, 118, 10033-10048.	47.7	93
52	MAS NMR Studies on the Dealumination of Zeolite MCM-22. <i>Journal of Physical Chemistry B</i> , 2001, 105, 1770-1779.	2.6	92
53	Ultrathin 2D Rare-Earth Nanomaterials: Compositions, Syntheses, and Applications. <i>Advanced Materials</i> , 2020, 32, e1806461.	21.0	92
54	Confined Heteropoly Blues in Defected Zr-MOF (Bottle Around Ship) for High-Efficiency Oxidative Desulfurization. <i>Small</i> , 2020, 16, e1906432.	10.0	92

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55	Understanding Surface and Interfacial Chemistry in Functional Nanomaterials via Solid-State NMR. <i>Advanced Materials</i> , 2017, 29, 1605895.	21.0	91
56	Beyond the Thermal Equilibrium Limit of Ammonia Synthesis with Dual Temperature Zone Catalyst Powered by Solar Light. <i>Chem</i> , 2019, 5, 2702-2717.	11.7	91
57	Hydrogen Spillover to Oxygen Vacancy of $\text{TiO}_2/\text{H}_2\text{O}/\text{Fe}$ : Breaking the Scaling Relationship of Ammonia Synthesis. <i>Journal of the American Chemical Society</i> , 2020, 142, 17403-17412.	13.7	91
58	Highly effective ammonia removal in a series of Brønsted acidic porous polymers: investigation of chemical and structural variations. <i>Chemical Science</i> , 2017, 8, 4399-4409.	7.4	89
59	Methylbenzene hydrocarbon pool in methanol-to-olefins conversion over zeolite H-ZSM-5. <i>Journal of Catalysis</i> , 2015, 332, 127-137.	6.2	88
60	Self-Assembly of Cetyltrimethylammonium Bromide and Lamellar Zeolite Precursor for the Preparation of Hierarchical MWW Zeolite. <i>Chemistry of Materials</i> , 2016, 28, 4512-4521.	6.7	88
61	Extra-Framework Aluminum-Assisted Initial C-C Bond Formation in Methanol-to-Olefins Conversion on Zeolite H-ZSM-5. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10197-10201.	13.8	86
62	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> , 2012, 51, 3850-3853.	13.8	84
63	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.	3.1	83
64	Relationship Between $^1\text{H}$ Chemical Shifts of Deuterated Pyridinium Ions and Brønsted Acid Strength of Solid Acids. <i>Journal of Physical Chemistry B</i> , 2007, 111, 3085-3089.	2.6	82
65	Low-Temperature Reactivity of $\text{Zn}^{2+}$ 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> , 2013, 135, 6762-6765.	13.7	80
66	The acidic nature of $^{\text{27}}\text{Al}$ -NMR-invisible tri-coordinated framework aluminum species in zeolites. <i>Chemical Science</i> , 2019, 10, 10159-10169.	7.4	78
67	A covalently-linked microporous organic-inorganic hybrid framework containing polyhedral oligomeric silsesquioxane moieties. <i>Dalton Transactions</i> , 2011, 40, 2720-2724.	3.3	77
68	Insights of the Crystallization Process of Molecular Sieve $\text{AlPO}_4\text{-5}$ Prepared by Solvent-Free Synthesis. <i>Journal of the American Chemical Society</i> , 2016, 138, 6171-6176.	13.7	77
69	One-Dimensional Lead-Free Halide with Near-Unity Greenish-Yellow Light Emission. <i>Chemistry of Materials</i> , 2020, 32, 6525-6531.	6.7	73
70	Loss of Inositol Phosphorylceramide Sphingolipid Mannosylation Induces Plant Immune Responses and Reduces Cellulose Content in Arabidopsis. <i>Plant Cell</i> , 2016, 28, 2991-3004.	6.6	71
71	Acidity of Mesoporous $\text{MoO}_x/\text{ZrO}_2$ and $\text{WO}_x/\text{ZrO}_2$ Materials: A Combined Solid-State NMR and Theoretical Calculation Study. <i>Journal of Physical Chemistry B</i> , 2006, 110, 10662-10671.	2.6	70
72	Reactivity of $\text{C}_{1x}$ Surface Species Formed in Methane Activation on Zn-Modified H-ZSM-5 Zeolite. <i>Chemistry - A European Journal</i> , 2010, 16, 14016-14025.	3.3	68

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73	Targeted synthesis of an electroactive organic framework. <i>Journal of Materials Chemistry</i> , 2011, 21, 18208.	6.7	68
74	<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> , 2010, 114, 12711-12718.	3.1	67
75	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> , 2016, 55, 2507-2511.	13.8	67
76	<sup>1</sup> H/ <sup>27</sup> Al TRAPDOR NMR studies on aluminum species in dealuminated zeolites. <i>Solid State Nuclear Magnetic Resonance</i> , 1998, 10, 151-160.	2.3	66
77	Construction of Porous Aromatic Frameworks with Exceptional Porosity via Building Unit Engineering. <i>Advanced Materials</i> , 2018, 30, e1804169.	21.0	66
78	A Hydrothermally Stable Irreducible Oxide-Modified Pd/MgAl <sub>2</sub> O <sub>4</sub> Catalyst for Methane Combustion. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18522-18526.	13.8	64
79	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.	2.3	62
80	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, 12061-12068.	3.3	62
81	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> , 2010, 206, 269-273.	2.1	61
82	Measurement of Aluminum-Carbon Distances Using <sup>27</sup> Al- <sup>13</sup> C CP-MAS NMR Experiments. <i>ChemPhysChem</i> , 2012, 13, 3605-3615.	2.1	59
83	Identification of Nonequivalent Framework Oxygen Species in Metal-Organic Frameworks by <sup>17</sup> O Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16953-16960.	3.1	59
84	Synergic Effect of Active Sites in Zinc-Modified ZSM-5 Zeolites as Revealed by High-Field Solid-State NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15826-15830.	13.8	59
85	Methanol to Olefins Reaction over Cavity-type Zeolite: Cavity Controls the Critical Intermediates and Product Selectivity. <i>ACS Catalysis</i> , 2018, 8, 10950-10963.	11.2	59
86	Dynamic Nuclear Polarization Surface Enhanced NMR spectroscopy (DNP SENS): Principles, protocols, and practice. <i>Current Opinion in Colloid and Interface Science</i> , 2018, 33, 63-71.	7.4	58
87	Methanol to hydrocarbons reaction over H <sup>+</sup> zeolites studied by high resolution solid-state NMR spectroscopy: Carbenium ions formation and reaction mechanism. <i>Journal of Catalysis</i> , 2016, 335, 47-57.	6.2	57
88	Rare earth double perovskites: a fertile soil in the field of perovskite oxides. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2226-2238.	6.0	57
89	Bifunctionalized Metal-Organic Frameworks for Pore-Size-Dependent Enantioselective Sensing. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	57
90	Generating Short-Chain Sulfur Suitable for Efficient Sodium-Sulfur Batteries via Atomic Copper Sites on a N,O-Codoped Carbon Composite. <i>Advanced Energy Materials</i> , 2021, 11, 2100989.	19.5	55

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91	Crystallization of AlPO <sub>4-5</sub> Aluminophosphate Molecular Sieve Prepared in Fluoride Medium: A Multinuclear Solid-State NMR Study. <i>Journal of Physical Chemistry B</i> , 2007, 111, 7105-7113.	2.6	54
92	Direct observation of tin sites and their reversible interconversion in zeolites by solid-state NMR spectroscopy. <i>Communications Chemistry</i> , 2018, 1, .	4.5	54
93	Solid-state <sup>31</sup> P NMR mapping of active centers and relevant spatial correlations in solid acid catalysts. <i>Nature Protocols</i> , 2020, 15, 3527-3555.	12.0	54
94	Unravelling the Efficient Photocatalytic Activity of Boron-induced Ti <sup>3+</sup> Species in the Surface Layer of TiO <sub>2</sub> . <i>Scientific Reports</i> , 2016, 6, 34765.	3.3	53
95	F-assisted synthesis of a hierarchical ZSM-5 zeolite for methanol to propylene reaction: a b-oriented thinner dimensional morphology. <i>RSC Advances</i> , 2015, 5, 61354-61363.	3.6	52
96	Electrolytes for Batteries with Earth-Abundant Metal Anodes. <i>Chemistry - A European Journal</i> , 2018, 24, 18220-18234.	3.3	50
97	Recent Advances of Solid-State NMR Spectroscopy for Microporous Materials. <i>Advanced Materials</i> , 2020, 32, e2002879.	21.0	50
98	Molecular engineering of microporous crystals: (III) The influence of water content on the crystallization of microporous aluminophosphate AlPO <sub>4-11</sub> . <i>Microporous and Mesoporous Materials</i> , 2012, 147, 212-221.	4.4	47
99	Sustainable Synthesis of Pure Silica Zeolites from a Combined Strategy of Zeolite Seeding and Alcohol Filling. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12138-12142.	13.8	47
100	Higher Magnetic Fields, Finer MOF Structural Information: <sup>17</sup> O Solid-State NMR at 35.2 T. <i>Journal of the American Chemical Society</i> , 2020, 142, 14877-14889.	13.7	47
101	Subnanometer Bimetallic Platinum-Zinc Clusters in Zeolites for Propane Dehydrogenation. <i>Angewandte Chemie</i> , 2020, 132, 19618-19627.	2.0	47
102	Origin of Ferroelectricity in Two Prototypical Hybrid Organic-Inorganic Perovskites. <i>Journal of the American Chemical Society</i> , 2022, 144, 816-823.	13.7	47
103	Mapping Out Chemically Similar, Crystallographically Nonequivalent Hydrogen Sites in Metal-Organic Frameworks by <sup>1</sup> H Solid-State NMR Spectroscopy. <i>Chemistry of Materials</i> , 2015, 27, 3306-3316.	6.7	46
104	Alkylation of Benzene with Methane over ZnZSM-5 Zeolites Studied with Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4018-4023.	3.1	45
105	Resolving Multiple Nonequivalent Metal Sites in Magnesium-Containing Metal-Organic Frameworks by Natural Abundance <sup>25</sup> Mg Solid-State NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2013, 19, 4432-4436.	3.3	45
106	<sup>25</sup> Mg Solid-State NMR: A Sensitive Probe of Adsorbing Guest Molecules on a Metal Center in Metal-Organic Framework CPO-27-Mg. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 7-11.	4.6	44
107	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.	3.1	43
108	Synthesis of chiral polymorph A-enriched zeolite Beta with an extremely concentrated fluoride route. <i>Scientific Reports</i> , 2015, 5, 11521.	3.3	43

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109	Observation of Nonframework Al Species in Zeolite $\hat{I}^2$ by Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 1998, 102, 5252-5256.	2.6	42
110	Dry Gel Conversion Method for the Synthesis of Organic-Inorganic Hybrid MOR Zeolites with Modifiable Catalytic Activities. <i>Chemistry of Materials</i> , 2012, 24, 4160-4165.	6.7	42
111	Mapping the oxygen structure of $\hat{I}^3$ -Al <sub>2</sub> O <sub>3</sub> by high-field solid-state NMR spectroscopy. <i>Nature Communications</i> , 2020, 11, 3620.	12.8	42
112	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.	3.1	41
113	ZSM-5 extrudates modified with phosphorus as a super effective MTP catalyst: Impact of the acidity on binder. <i>Fuel Processing Technology</i> , 2017, 168, 105-115.	7.2	41
114	Observation of an oxonium ion intermediate in ethanol dehydration to ethene on zeolite. <i>Nature Communications</i> , 2019, 10, 1961.	12.8	40
115	Rational design of ionic V-MOF with confined Mo species for highly efficient oxidative desulfurization. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120594.	20.2	40
116	Chelating N-Heterocyclic Carbene Ligands Enable Tuning of Electrocatalytic CO <sub>2</sub> Reduction to Formate and Carbon Monoxide: Surface Organometallic Chemistry. <i>Angewandte Chemie</i> , 2018, 130, 5075-5079.	2.0	39
117	Identification of Singlet Self-Trapped Excitons in a New Family of White-Light-Emitting Zero-Dimensional Compounds. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11625-11630.	3.1	39
118	Dual Active Sites on Molybdenum/ZSM-5 Catalyst for Methane Dehydroaromatization: Insights from Solid-State NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10709-10715.	13.8	39
119	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> , 2011, 358, 252-260.	9.4	38
120	The effect of high external pressure on the structure and stability of MOF $\hat{I}^{\pm}$ -Mg <sub>3</sub> (HCOO) <sub>6</sub> probed by in situ Raman and FT-IR spectroscopy. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11976-11984.	10.3	38
121	Synthesis and structure of a family of rhodium polystannide clusters [Rh@Sn <sub>10</sub> ] <sup>3+</sup> , [Rh@Sn <sub>12</sub> ] <sup>3+</sup> , [Rh <sub>2</sub> @Sn <sub>17</sub> ] <sup>6+</sup> and the first triply-fused stannide, [Rh <sub>3</sub> @Sn <sub>24</sub> ] <sup>5+</sup> . <i>Chemical Science</i> , 2019, 10, 4394-4401.	7.4	38
122	Defect and interface engineering for electrochemical nitrogen reduction reaction under ambient conditions. <i>Journal of Energy Chemistry</i> , 2022, 65, 448-468.	12.9	38
123	Solid-state NMR studies of internuclear correlations for characterizing catalytic materials. <i>Chemical Society Reviews</i> , 2021, 50, 8382-8399.	38.1	37
124	Monitoring and Understanding the Paraelectric-Ferroelectric Phase Transition in the Metal-Organic Framework [NH <sub>4</sub> ][M(HCOO) <sub>3</sub> ] by Solid-State NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2015, 21, 14348-14361.	3.3	36
125	Enhancement of Brønsted acidity in zeolitic catalysts due to an intermolecular solvent effect in confined micropores. <i>Chemical Communications</i> , 2012, 48, 6936.	4.1	35
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