

# Jun Xu

## List of Publications by Year in descending order

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298  
papers

16,101  
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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	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
2	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
3	Facile activation of lithium slag for the hydrothermal synthesis of zeolite A with commercial quality and high removal efficiency for the isotope of radioactive <sup>90</sup> Sr. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 468-477.	6.0	12
4	Application of solid-state NMR techniques for structural characterization of metal-organic frameworks. <i>Solid State Nuclear Magnetic Resonance</i> , 2022, 117, 101772.	2.3	14
5	Evaluation of neutron beam characteristics for D-BNCT01 facility. <i>Nuclear Science and Techniques/Hewuli</i> , 2022, 33, 1.	3.4	7
6	Mechanistic Insight into Ethanol Dehydration over SAPO-34 Zeolite by Solid-state NMR Spectroscopy. <i>Chemical Research in Chinese Universities</i> , 2022, 38, 155-160.	2.6	8
7	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
8	Preferential adsorption sites for propane/propylene separation on ZIF-8 as revealed by solid-state NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 6535-6543.	2.8	4
9	Exploring the intercalation chemistry of layered yttrium hydroxides by <sup>13</sup> C solid-state NMR spectroscopy. <i>Magnetic Resonance Letters</i> , 2022, , .	1.3	0
10	Identifying Crystallographically Different Si-OH-Al Brønsted Acid Sites in LTA Zeolites. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	6
11	Aluminum-Doped TiO <sub>2</sub> with Dominant {001} Facets: Microstructure and Property Evolution and Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2022, 126, 5555-5563.	3.1	7
12	Bifunctionalized Metal-Organic Frameworks for Pore-Size-Dependent Enantioselective Sensing. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	57
13	Heterogeneous parahydrogen induced polarization on Rh-containing silicalite-1 zeolites: effect of the catalyst structure on signal enhancement. <i>Catalysis Science and Technology</i> , 2022, 12, 4442-4449.	4.1	2
14	Dynamic Self-Dispersion of Aggregated Boron Clusters into Stable Oligomeric Boron Species on MFI Zeolite Nanosheets under Oxidative Dehydrogenation of Propane. <i>ACS Catalysis</i> , 2022, 12, 7368-7376.	11.2	13
15	Energy Level Engineering: Ru Single Atom Anchored on Mo-MOF with a [Mo <sub>8</sub> O <sub>26</sub> (im) <sub>2</sub> ] <sup>4-</sup> Structure Acts as a Biomimetic Photocatalyst. <i>ACS Catalysis</i> , 2022, 12, 7960-7974.	11.2	26
16	Significant promotion effect of the rutile phase on V <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> catalysts for NH <sub>3</sub> -SCR. <i>Chemical Communications</i> , 2021, 57, 355-358.	4.1	18
17	Rare earth oxynitrides: promising visible-light-driven photocatalysts for water splitting. <i>Materials Advances</i> , 2021, 2, 1190-1203.	5.4	15
18	<sup>17</sup> 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). <i>Magnetic Resonance in Chemistry</i> , 2021, 59, 940-950.	1.9	9

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19	âœX Factorâ€ in the Structure and Anion Exchange of Layered Yttrium Hydroxides. <i>Journal of Physical Chemistry C</i> , 2021, 125, 7251-7258.	3.1	6
20	Impregnating Subnanometer Metallic Nanocatalysts into Self-Pillared Zeolite Nanosheets. <i>Journal of the American Chemical Society</i> , 2021, 143, 6905-6914.	13.7	124
21	Ultrafast Crystallization of AlPO <sub>4</sub> -5 Molecular Sieve in a Deep Eutectic Solvent. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8876-8889.	3.1	14
22	Throughâ€space 11 Bâ€ 27 Al correlation: Influence of the recoupling channel. <i>Magnetic Resonance in Chemistry</i> , 2021, 59, 1062-1076.	1.9	3
23	Dual Active Sites on Molybdenum/ZSMâ€5 Catalyst for Methane Dehydroaromatization: Insights from Solidâ€State NMR Spectroscopy. <i>Angewandte Chemie</i> , 2021, 133, 10804-10810.	2.0	2
24	Highly efficient conversion of glucose to methyl lactate over hierarchical bimetalâ€doped $\beta$ zeolite catalysts. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 2238-2248.	3.2	11
25	Influence of Trimethylphosphine Oxide Loading on the Measurement of Zeolite Acidity by Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2021, 125, 9497-9506.	3.1	15
26	Dual Active Sites on Molybdenum/ZSMâ€5 Catalyst for Methane Dehydroaromatization: Insights from Solidâ€State NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10709-10715.	13.8	39
27	Interfacial-Bonding Tiâ€Nâ€C Boosts Efficient Photocatalytic H <sub>2</sub> Evolution in Close Coupling g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2021, 125, 12012-12018.	3.1	11
28	Unravelling the strong metal-support interaction between Ru quantum dots and g-C <sub>3</sub> N <sub>4</sub> for visible-light photocatalytic nitrogen fixation. <i>Applied Catalysis A: General</i> , 2021, 617, 118112.	4.3	22
29	Facile Preparation of Methyl Phenols from Ethanol over Lamellar Ce(OH)SO <sub>4</sub> ·xH <sub>2</sub> O. <i>ACS Catalysis</i> , 2021, 11, 6162-6174.	11.2	9
30	Ionothermal Synthesis of Triclinic SAPO-34 Zeolites. <i>Catalysts</i> , 2021, 11, 616.	3.5	8
31	Hostâ€Guest Interaction in Ethylene and Ethane Separation on Zeolitic Imidazolate Frameworks as Revealed by Solidâ€State NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2021, 27, 11303-11308.	3.3	7
32	General Synthesis of Ordered Mesoporous Carbonaceous Hybrid Nanostructures with Molecularly Dispersed Polyoxometallates. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15556-15562.	13.8	13
33	Generating Shortâ€Chain Sulfur Suitable for Efficient Sodiumâ€Sulfur Batteries via Atomic Copper Sites on a N,Oâ€Codoped Carbon Composite. <i>Advanced Energy Materials</i> , 2021, 11, 2100989.	19.5	55
34	DNP-SENS Formulation Protocols To Study Surface Sites in Zieglerâ€Natta Catalyst MgCl <sub>2</sub> Supports Modified with Internal Donors. <i>Journal of Physical Chemistry C</i> , 2021, 125, 15994-16003.	3.1	16
35	Pairwise Stereoselective Hydrogenation of Propyne on Supported Pdâ€Ag Catalysts Investigated by Parahydrogen-Induced Polarization. <i>Journal of Physical Chemistry C</i> , 2021, 125, 17144-17154.	3.1	6
36	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

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37	Stabilizing the framework of SAPO-34 zeolite toward long-term methanol-to-olefins conversion. <i>Nature Communications</i> , 2021, 12, 4661.	12.8	32
38	Unraveling Hydrocarbon Pool Boosted Propane Aromatization on Gallium/ZSM-5 Zeolite by Solid-State Nuclear Magnetic Resonance Spectroscopy. <i>Angewandte Chemie</i> , 2021, 133, 23822-23826.	2.0	1
39	Breathing Effect via Solvent Inclusions on the Linker Rotational Dynamics of Functionalized MIL-53. <i>Chemistry - A European Journal</i> , 2021, 27, 14711-14720.	3.3	9
40	Unraveling Hydrocarbon Pool Boosted Propane Aromatization on Gallium/ZSM-5 Zeolite by Solid-State Nuclear Magnetic Resonance Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23630-23634.	13.8	15
41	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
42	Solid-state NMR studies of internuclear correlations for characterizing catalytic materials. <i>Chemical Society Reviews</i> , 2021, 50, 8382-8399.	38.1	37
43	Insight into Carbocation-Induced Noncovalent Interactions in the Methanol-to-Olefins Reaction over ZSM-5 Zeolite by Solid-State NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26847-26854.	13.8	9
44	Titelbild: Insight into Carbocation-Induced Noncovalent Interactions in the Methanol-to-Olefins Reaction over ZSM-5 Zeolite by Solid-State NMR Spectroscopy ( <i>Angew. Chem.</i> 51/2021). <i>Angewandte Chemie</i> , 2021, 133, 26617-26617.	2.0	0
45	<sup>89</sup> Y chemical shift anisotropy: a sensitive structural probe of layered yttrium hydroxides revealed by solid-state NMR spectroscopy and DFT calculations. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 27244-27252.	2.8	3
46	Solid-state NMR studies of the acidity of functionalized metal-organic framework UiO-66 materials. <i>Magnetic Resonance in Chemistry</i> , 2020, 58, 1091-1098.	1.9	7
47	<sup>13</sup> C chemical shift tensors in MOF <i>Mg<sub>3</sub>(HCOO)<sub>6</sub></i> : Which component is more sensitive to host-guest interaction?. <i>Magnetic Resonance in Chemistry</i> , 2020, 58, 1082-1090.	1.9	6
48	Promoting dimethyl ether carbonylation over hot-water pretreated H-mordenite. <i>Catalysis Today</i> , 2020, 339, 86-92.	4.4	16
49	Ultrathin 2D Rare-Earth Nanomaterials: Compositions, Syntheses, and Applications. <i>Advanced Materials</i> , 2020, 32, e1806461.	21.0	92
50	Mechanism of Methanol-to-Hydrocarbon Reaction over Zeolites: A solid-state NMR Perspective. <i>ChemCatChem</i> , 2020, 12, 965-980.	3.7	33
51	Effect of treatment atmosphere on the vanadium species of V/TiO <sub>2</sub> catalysts for the selective catalytic reduction of NO <sub>x</sub> with NH <sub>3</sub> . <i>Catalysis Science and Technology</i> , 2020, 10, 311-314.	4.1	16
52	Conversion of Dihydroxyacetone to Methyl Pyruvate Catalyzed by Hybrid Molecular Sieves at Low Temperature: A Strategy for the Green Utilization of Glycerol. <i>Catalysis Letters</i> , 2020, 150, 1641-1649.	2.6	1
53	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
54	Frontispiz: Subnanometer Bimetallic Platinum-Zinc Clusters in Zeolites for Propane Dehydrogenation. <i>Angewandte Chemie</i> , 2020, 132, .	2.0	0

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55	Quantitative Analysis of Linker Composition and Spatial Arrangement of Multivariate Metal-Organic Framework UiO-66 through $^1\text{H}$ Fast MAS NMR. <i>Journal of Physical Chemistry C</i> , 2020, 124, 17640-17647.	3.1	12
56	Mapping the oxygen structure of $\text{Al}_2\text{O}_3$ by high-field solid-state NMR spectroscopy. <i>Nature Communications</i> , 2020, 11, 3620.	12.8	42
57	Higher Magnetic Fields, Finer MOF Structural Information: $^{17}\text{O}$ Solid-State NMR at 35.2 T. <i>Journal of the American Chemical Society</i> , 2020, 142, 14877-14889.	13.7	47
58	Probing the active sites for methane activation on Ga/ZSM-5 zeolites with solid-state NMR spectroscopy. <i>Chemical Communications</i> , 2020, 56, 12029-12032.	4.1	5
59	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
60	Multimodal Luminescent $\text{Yb}^{3+}/\text{Er}^{3+}/\text{Bi}^{3+}$ -Doped Perovskite Single Crystals for X-ray Detection and Anti-Counterfeiting. <i>Advanced Materials</i> , 2020, 32, e2004506.	21.0	187
61	Recent Advances of Solid-State NMR Spectroscopy for Microporous Materials. <i>Advanced Materials</i> , 2020, 32, e2002879.	21.0	50
62	Frontispiece: Subnanometer Bimetallic Platinum-Zinc Clusters in Zeolites for Propane Dehydrogenation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, .	13.8	5
63	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
64	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
65	gem-Diol Type Intermediate in the Activation of a Ketone on $\text{Sn}^{IV}$ Zeolite as Studied by Solid-State NMR Spectroscopy. <i>Angewandte Chemie</i> , 2020, 132, 19700-19706.	2.0	2
66	gem-Diol Type Intermediate in the Activation of a Ketone on $\text{Sn}^{IV}$ Zeolite as Studied by Solid-State NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19532-19538.	13.8	13
67	Adsorptive Separation of Furfural/5-Hydroxymethylfurfural in MAF-5 with Ellipsoidal Pores. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 11734-11742.	3.7	15
68	Synthesis of Aluminophosphate Molecular Sieves in Alkaline Media. <i>Chemistry - A European Journal</i> , 2020, 26, 11408-11411.	3.3	5
69	Establishing a Link Between the Dual Cycles in Methanol-to-Olefins Conversion on H-ZSM-5: Aromatization of Cycloalkenes. <i>ACS Catalysis</i> , 2020, 10, 4299-4305.	11.2	29
70	Subnanometer Bimetallic Platinum-Zinc Clusters in Zeolites for Propane Dehydrogenation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19450-19459.	13.8	221
71	Modified Nano-TiO <sub>2</sub> Based Composites for Environmental Photocatalytic Applications. <i>Catalysts</i> , 2020, 10, 759.	3.5	27
72	A Hydrothermally Stable Irreducible Oxide-Modified Pd/MgAl <sub>2</sub> O <sub>4</sub> Catalyst for Methane Combustion. <i>Angewandte Chemie</i> , 2020, 132, 18680-18684.	2.0	14

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73	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
74	Direct synthesis of c-axis-oriented HZSM-5 zeolites in polyacrylamide hydrogel. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 96, 256-263.	2.4	6
75	One-Dimensional Lead-Free Halide with Near-Unity Greenish-Yellow Light Emission. <i>Chemistry of Materials</i> , 2020, 32, 6525-6531.	6.7	73
76	Primary Adsorption Sites of Light Alkanes in Multivariate UiO-66 at Room Temperature as Revealed by Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3738-3746.	3.1	12
77	Confined Heteropoly Blues in Defected Zr-MOF (Bottle Around Ship) for High-Efficiency Oxidative Desulfurization. <i>Small</i> , 2020, 16, e1906432.	10.0	92
78	Unravelling the Mystery of Solid Solutions: A Case Study of <sup>89</sup> Y Solid-State NMR Spectroscopy. <i>ChemPhysChem</i> , 2020, 21, 825-836.	2.1	4
79	$\pi$ - $\pi$ Interactions between Cyclic Carbocations and Aromatics Cause Zeolite Deactivation in Methanol-to-Hydrocarbon Conversion. <i>Angewandte Chemie</i> , 2020, 132, 7265-7269.	2.0	7
80	Surface Water Loading on Titanium Dioxide Modulates Photocatalytic Water Splitting. <i>Cell Reports Physical Science</i> , 2020, 1, 100013.	5.6	17
81	$\pi$ - $\pi$ Interactions between Cyclic Carbocations and Aromatics Cause Zeolite Deactivation in Methanol-to-Hydrocarbon Conversion. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7198-7202.	13.8	35
82	Rare-earth-containing perovskite nanomaterials: design, synthesis, properties and applications. <i>Chemical Society Reviews</i> , 2020, 49, 1109-1143.	38.1	211
83	Solid-state NMR for metal-containing zeolites: From active sites to reaction mechanism. <i>Frontiers of Chemical Science and Engineering</i> , 2020, 14, 159-187.	4.4	18
84	Resolving the puzzle of single-atom silver dispersion on nanosized $\gamma$ -Al <sub>2</sub> O <sub>3</sub> surface for high catalytic performance. <i>Nature Communications</i> , 2020, 11, 529.	12.8	111
85	Subnanometer Bimetallic Platinum-Zinc Clusters in Zeolites for Propane Dehydrogenation. <i>Angewandte Chemie</i> , 2020, 132, 19618-19627.	2.0	47
86	Multiple Methane Activation Pathways on Ga-Modified ZSM-5 Zeolites Revealed by Solid-State NMR Spectroscopy. <i>ChemCatChem</i> , 2020, 12, 3880-3889.	3.7	7
87	Oxidative Desulfurization: Confined Heteropoly Blues in Defected Zr-MOF (Bottle Around Ship) for High-Efficiency Oxidative Desulfurization (Small 14/2020). <i>Small</i> , 2020, 16, 2070077.	10.0	1
88	Revealing Molecular Mechanisms in Hierarchical Nanoporous Carbon via Nuclear Magnetic Resonance. <i>Matter</i> , 2020, 3, 2093-2107.	10.0	34
89	Evidence on Primary Pore Size Dependence of C-C Bond Coupling Inside Zr-Based Metal-Organic Frameworks. <i>Journal of Physical Chemistry C</i> , 2020, 124, 24713-24722.	3.1	3
90	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

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91	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
92	Sustainable Synthesis of Pure Silica Zeolites from a Combined Strategy of Zeolite Seeding and Alcohol Filling. <i>Angewandte Chemie</i> , 2019, 131, 12266-12270.	2.0	3
93	Effect of Ionothermal Synthesis on the Acidity and Catalytic Performance of a SAPO-5 Molecular Sieve. <i>ChemistrySelect</i> , 2019, 4, 10520-10524.	1.5	9
94	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
95	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
96	The acidic nature of $\mu$ -NMR-invisible tri-coordinated framework aluminum species in zeolites. <i>Chemical Science</i> , 2019, 10, 10159-10169.	7.4	78
97	Host-Guest Interaction between Methanol and Metal-Organic Framework $\text{Cu}_3\text{Zn}_2(\text{btc})_2$ as Revealed by Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2019, 123, 24062-24070.	3.1	12
98	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. <i>Catalysis Science and Technology</i> , 2019, 9, 659-671.	4.1	33
99	Origin of High Selectivity of Dimethyl Ether Carbonylation in the 8-Membered Ring Channel of Mordenite Zeolite. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15503-15512.	3.1	28
100	Iron detection and remediation with a functionalized porous polymer applied to environmental water samples. <i>Chemical Science</i> , 2019, 10, 6651-6660.	7.4	30
101	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
102	Stellerite-seeded facile synthesis of zeolite heulandite with exceptional aqueous $\text{Cd}^{2+}$ capture performance. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1785-1792.	6.0	13
103	Observation of an oxonium ion intermediate in ethanol dehydration to ethene on zeolite. <i>Nature Communications</i> , 2019, 10, 1961.	12.8	40
104	Synthesis and structure of a family of rhodium polystannide clusters $[\text{Rh}@\text{Sn}_{10}]^{3+}$ , $[\text{Rh}@\text{Sn}_{12}]^{3+}$ , $[\text{Rh}_2@\text{Sn}_{17}]^{6+}$ and the first triply-fused stannide, $[\text{Rh}_3@\text{Sn}_{24}]^{5+}$ . <i>Chemical Science</i> , 2019, 10, 4394-4401.	7.4	38
105	Amine Dynamics in Diamine-Appended $\text{Mg}_2(\text{dobpdc})$ Metal-Organic Frameworks. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7044-7049.	4.6	18
106	All in one theranostic nanoplatform enables efficient anti-tumor peptide delivery for triple-modal imaging guided cancer therapy. <i>Nano Research</i> , 2019, 12, 593-599.	10.4	22
107	Carbon-based derivatives from metal-organic frameworks as cathode hosts for Li-S batteries. <i>Journal of Energy Chemistry</i> , 2019, 38, 94-113.	12.9	104
108	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

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109	Chelating Nâ€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
110	Chelating Nâ€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
111	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
112	Synthesis of EUâ€1/ZSMâ€48 Coâ€Crystalline Zeolites from Highâ€Silica EUâ€1 Seeds: Tailoring Phase Proportions and Promoting Long Crystallineâ€Phase Stability. <i>Chemistry - A European Journal</i> , 2018, 24, 6595-6605.	3.3	13
113	Unusual bulky solvent molecule encapsulation in the organic-amine-occupied 10-membered ring channels of aluminophosphate molecular sieve AlPO4-11. <i>Inorganic Chemistry Communication</i> , 2018, 88, 6-10.	3.9	2
114	Tuning Pdâ€Au Bimetallic Catalysts for Heterogeneous Parahydrogen-Induced Polarization. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1248-1257.	3.1	13
115	Host-guest interaction of styrene and ethylbenzene in MIL-53 studied by solid-state NMR. <i>Solid State Nuclear Magnetic Resonance</i> , 2018, 90, 1-6.	2.3	13
116	Enhanced Photocatalytic Performance of Carbon-Coated TiO<sub>2</sub> with Surface-Active Carbon Species. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10948-10955.	3.1	21
117	Encapsulation of bulky solvent molecules into the channels of aluminophosphate molecular sieve and its negative influence on the thermal stability of open-framework. <i>Inorganic Chemistry Communication</i> , 2018, 91, 67-71.	3.9	3
118	BrÃnsted/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
119	Solid-State NMR Investigations of Carbon Dioxide Gas in Metalâ€Organic Frameworks: Insights into Molecular Motion and Adsorptive Behavior. <i>Chemical Reviews</i> , 2018, 118, 10033-10048.	47.7	93
120	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
121	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
122	Construction of Porous Aromatic Frameworks with Exceptional Porosity via Building Unit Engineering. <i>Advanced Materials</i> , 2018, 30, e1804169.	21.0	66
123	Ionothermal Synthesis of Hollow Aluminophosphate Molecular Sieves. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1800125.	2.3	2
124	Probing the surface of Î³-Al<sub>2</sub>O<sub>3</sub> by oxygen-17 dynamic nuclear polarization enhanced solid-state NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 17218-17225.	2.8	29
125	Extraâ€Framework Aluminumâ€Assisted Initial Câ€C Bond Formation in Methanolâ€Olefins Conversion on Zeolite Hâ€ZSMâ€5. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10197-10201.	13.8	86
126	Electrolytes for Batteries with Earthâ€Abundant Metal Anodes. <i>Chemistry - A European Journal</i> , 2018, 24, 18220-18234.	3.3	50



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128	New insights into the di-n-propylamine (DPA) molecule as an organic structural directing agent (OSDA) in the crystallization of AlPO <sub>4</sub> -11 molecular sieve. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 1633-1639.	6.0	10
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130	Formation of aluminum diphosphonate mesostructures: The effect of aluminum source. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 718-726.	9.4	0
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132	Uniform signal enhancement in MAS NMR of half-integer quadrupolar nuclei using quadruple-frequency sweeps. <i>Journal of Magnetic Resonance</i> , 2018, 293, 92-103.	2.1	11
133	Facet dependent pairwise addition of hydrogen over Pd nanocrystal catalysts revealed via NMR using para-hydrogen-induced polarization. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 9349-9353.	2.8	16
134	Highly Stable Sodium Batteries Enabled by Functional Ionic Polymer Membranes. <i>Advanced Materials</i> , 2017, 29, 1605512.	21.0	214
135	Heteronuclear correlation experiments of <sup>23</sup> Na- <sup>27</sup> Al in rotating solids. <i>Solid State Nuclear Magnetic Resonance</i> , 2017, 84, 103-110.	2.3	11
136	Understanding Surface and Interfacial Chemistry in Functional Nanomaterials via Solid-State NMR. <i>Advanced Materials</i> , 2017, 29, 1605895.	21.0	91
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138	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
139	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.	3.1	25
140	Identification of double four-ring units in germanosilicate ITQ-13 zeolite by solid-state NMR spectroscopy. <i>Solid State Nuclear Magnetic Resonance</i> , 2017, 87, 1-9.	2.3	13
141	A Microporous Amic Acid Polymer for Enhanced Ammonia Capture. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 33504-33510.	8.0	31
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143	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
144	<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

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146	Impact of temporal and spatial distribution of hydrocarbon pool on methanol conversion over H-ZSM-5. <i>Journal of Catalysis</i> , 2017, 354, 138-151.	6.2	25
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148	Structure-directing effect on synthesis of layered aluminophosphates with same topology. <i>Chemical Research in Chinese Universities</i> , 2017, 33, 513-519.	2.6	4
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180	Monitoring and Understanding the Paraelectric-Ferroelectric Phase Transition in the Metal-Organic Framework [NH <sub>4</sub> ] <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

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