

Pu Duan

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Polymer Infiltration into Metal-Organic Frameworks in Mixed-Matrix Membranes Detected in Situ by NMR. <i>Journal of the American Chemical Society</i> , 2019, 141, 7589-7595.	13.7	102
2	Carbon Overcoating of Supported Metal Catalysts for Improved Hydrothermal Stability. <i>ACS Catalysis</i> , 2015, 5, 4546-4555.	11.2	88
3	Carbon Nitride Nanowire Crystals Derived from Pyridine. <i>Journal of the American Chemical Society</i> , 2018, 140, 4969-4972.	13.7	81
4	Composite-pulse and partially dipolar dephased multiCP for improved quantitative solid-state ¹³ C NMR. <i>Journal of Magnetic Resonance</i> , 2017, 285, 68-78.	2.1	61
5	The Chemical Structure of Carbon Nanowires Analyzed by Advanced Solid-State NMR. <i>Journal of the American Chemical Society</i> , 2018, 140, 7658-7666.	13.7	59
6	Cellulase-Inspired Solid Acids for Cellulose Hydrolysis: Structural Explanations for High Catalytic Activity. <i>ACS Catalysis</i> , 2018, 8, 1464-1468.	11.2	40
7	Reaction engineering implications of cellulose crystallinity and water-promoted recrystallization. <i>Green Chemistry</i> , 2019, 21, 5541-5555.	9.0	40
8	A molecular fluorophore in citric acid/ethylenediamine carbon dots identified and quantified by multinuclear solid-state nuclear magnetic resonance. <i>Magnetic Resonance in Chemistry</i> , 2020, 58, 1130-1138.	1.9	34
9	Deactivation of Supported Pt Catalysts during Alcohol Oxidation Elucidated by Spectroscopic and Kinetic Analyses. <i>ACS Catalysis</i> , 2017, 7, 6745-6756.	11.2	33
10	Hydration and Dynamics of Full-Length Tau Amyloid Fibrils Investigated by Solid-State Nuclear Magnetic Resonance. <i>Biochemistry</i> , 2020, 59, 2237-2248.	2.5	30
11	Inclusion of the C-Terminal Domain in the β -Sheet Core of Heparin-Fibrillized Three-Repeat Tau Protein Revealed by Solid-State Nuclear Magnetic Resonance Spectroscopy. <i>Journal of the American Chemical Society</i> , 2021, 143, 7839-7851.	13.7	30
12	Zirconium Metal-Organic Frameworks Assembled from Pd and Pt Pincer Complexes: Synthesis, Postsynthetic Modification, and Lewis Acid Catalysis. <i>Inorganic Chemistry</i> , 2018, 57, 2663-2672.	4.0	29
13	Stability of Pd nanoparticles on carbon-coated supports under hydrothermal conditions. <i>Catalysis Science and Technology</i> , 2018, 8, 1151-1160.	4.1	28
14	Fluent molecular mixing of Tau isoforms in Alzheimer's disease neurofibrillary tangles. <i>Nature Communications</i> , 2022, 13, .	12.8	27
15	Quantifying Molecular Mixing and Heterogeneity in Pharmaceutical Dispersions at Sub-100 nm Resolution by Spin Diffusion NMR. <i>Molecular Pharmaceutics</i> , 2020, 17, 3567-3580.	4.6	26
16	Constraining Carbon Nanowire Structures by Experimental and Calculated Nuclear Magnetic Resonance Spectra. <i>Nano Letters</i> , 2018, 18, 4934-4942.	9.1	24
17	Postsynthetic Metal Exchange in a Metal-Organic Framework Assembled from Co(III) Diphosphine Pincer Complexes. <i>Inorganic Chemistry</i> , 2019, 58, 3227-3236.	4.0	23
18	Binding Sites of a Positron Emission Tomography Imaging Agent in Alzheimer's β -Amyloid Fibrils Studied Using ¹⁹ F Solid-State NMR. <i>Journal of the American Chemical Society</i> , 2022, 144, 1416-1430.	13.7	22

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19	Improved hydrothermal stability of Pd nanoparticles on nitrogen-doped carbon supports. <i>Catalysis Science and Technology</i> , 2018, 8, 3548-3561.	4.1	20
20	Xylan Structure and Dynamics in Native <i>Brachypodium</i> Grass Cell Walls Investigated by Solid-State NMR Spectroscopy. <i>ACS Omega</i> , 2021, 6, 15460-15471.	3.5	19
21	Structure of the Polymer Backbones in polyMOF Materials. <i>Journal of the American Chemical Society</i> , 2020, 142, 10863-10868.	13.7	19
22	Phase transition of spiropyran: impact of isomerization dynamics at high temperatures. <i>Chemical Communications</i> , 2019, 55, 5813-5816.	4.1	17
23	Synthesis and Reactivity of Zr MOFs Assembled from P ^N N ^N P-Ru Pincer Complexes. <i>Organometallics</i> , 2019, 38, 3419-3428.	2.3	14
24	A Major Step in Opening the Black Box of High-Molecular-Weight Dissolved Organic Nitrogen by Isotopic Labeling of <i>Synechococcus</i> and Multibond Two-Dimensional NMR. <i>Analytical Chemistry</i> , 2017, 89, 11990-11998.	6.5	12
25	Effects of post-pyrolysis air oxidation on the chemical composition of biomass chars investigated by solid-state nuclear magnetic resonance spectroscopy. <i>Carbon</i> , 2019, 153, 173-178.	10.3	10
26	Silk-Like Protein with Persistent Radicals Identified in Oyster Adhesive by Solid-State NMR. <i>ACS Applied Bio Materials</i> , 2019, 2, 2840-2852.	4.6	8
27	Rapid Depolymerization of Decrystallized Cellulose to Soluble Products via Ethanolysis under Mild Conditions. <i>ChemSusChem</i> , 2020, 13, 2634-2641.	6.8	7
28	Physicochemical Changes in Biomass Chars by Thermal Oxidation or Ambient Weathering and Their Impacts on Sorption of a Hydrophobic and a Cationic Compound. <i>Environmental Science & Technology</i> , 2021, 55, 13072-13081.	10.0	7
29	Quick, selective NMR spectra of C OH moieties in ¹³ C-enriched solids. <i>Journal of Magnetic Resonance</i> , 2019, 301, 80-84.	2.1	5
30	Structural composition of immobilized fertilizer N associated with decomposed wheat straw residues using advanced nuclear magnetic resonance spectroscopy combined with ¹³ C and ¹⁵ N labeling. <i>Geoderma</i> , 2021, 398, 115110.	5.1	5
31	Protective Carbon Overlayers from 2,3-Naphthalenediol Pyrolysis on Mesoporous SiO ₂ and Al ₂ O ₃ Analyzed by Solid-State NMR. <i>Materials</i> , 2018, 11, 980.	2.9	4
32	Structurally Based Design of Glucagon Mutants That Inhibit Fibril Formation. <i>Biochemistry</i> , 2021, 60, 2033-2043.	2.5	4
33	A New Method for Solid Acid Catalyst Evaluation for Cellulose Hydrolysis. <i>Sustainable Chemistry</i> , 2021, 2, 645-669.	4.7	4
34	Multinuclear solid-state NMR of complex nitrogen-rich polymeric microcapsules: Weight fractions, spectral editing, component mixing, and persistent radicals. <i>Solid State Nuclear Magnetic Resonance</i> , 2020, 106, 101650.	2.3	3