

Yusuke Nishiyama

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Accumulation of Glassy Poly(ethylene oxide) Anchored in a Covalent Organic Framework as a Solid-State Li ⁺ Electrolyte. <i>Journal of the American Chemical Society</i> , 2019, 141, 1227-1234.	13.7	232
2	Perfluoroalkyl-Functionalized Covalent Organic Frameworks with Superhydrophobicity for Anhydrous Proton Conduction. <i>Journal of the American Chemical Society</i> , 2020, 142, 14357-14364.	13.7	167
3	Insights into the functional group transformation of a chinese brown coal during slow pyrolysis by combining various experiments. <i>Fuel</i> , 2014, 118, 257-264.	6.4	163
4	Encapsulating Mobile Proton Carriers into Structural Defects in Coordination Polymer Crystals: High Anhydrous Proton Conduction and Fuel Cell Application. <i>Journal of the American Chemical Society</i> , 2016, 138, 8505-8511.	13.7	146
5	Fast magic-angle sample spinning solid-state NMR at 60–100 kHz for natural abundance samples. <i>Solid State Nuclear Magnetic Resonance</i> , 2016, 78, 24-36.	2.3	122
6	Construction of a Hierarchical Architecture of Covalent Organic Frameworks via a Postsynthetic Approach. <i>Journal of the American Chemical Society</i> , 2018, 140, 2602-2609.	13.7	117
7	Sensitivity and Resolution Enhanced Solid-State NMR for Paramagnetic Systems and Biomolecules under Very Fast Magic Angle Spinning. <i>Accounts of Chemical Research</i> , 2013, 46, 2127-2135.	15.6	83
8	Hierarchical Self-Organization of AB _n Dendron-like Molecules into a Supramolecular Lattice Sequence. <i>ACS Central Science</i> , 2017, 3, 860-867.	11.3	69
9	Using Dynamic Bonds to Enhance the Mechanical Performance: From Microscopic Molecular Interactions to Macroscopic Properties. <i>Macromolecules</i> , 2019, 52, 5014-5025.	4.8	64
10	Exploring the salt–cocrystal continuum with solid-state NMR using natural-abundance samples: implications for crystal engineering. <i>IUCr</i> , 2017, 4, 466-475.	2.2	60
11	Rapid measurement of multidimensional 1H solid-state NMR spectra at ultra-fast MAS frequencies. <i>Journal of Magnetic Resonance</i> , 2014, 239, 75-80.	2.1	57
12	Crystal melting and glass formation in copper thiocyanate based coordination polymers. <i>Chemical Communications</i> , 2019, 55, 5455-5458.	4.1	57
13	Iodine Transfer Terpolymerization of Vinylidene Fluoride, $\hat{\pm}$ -Trifluoromethacrylic Acid and Hexafluoropropylene for Exceptional Thermostable Fluoropolymers/Silica Nanocomposites. <i>Macromolecules</i> , 2011, 44, 1114-1124.	4.8	56
14	Dynamic Transformation between Covalent Organic Frameworks and Discrete Organic Cages. <i>Journal of the American Chemical Society</i> , 2020, 142, 21279-21284.	13.7	54
15	Selective Synthesis of a Salt and a Cocrystal of the Ethionamide–Salicylic Acid System. <i>Crystal Growth and Design</i> , 2020, 20, 906-915.	3.0	49
16	Understanding hydrogen-bonding structures of molecular crystals via electron and NMR nanocrystallography. <i>Nature Communications</i> , 2019, 10, 3537.	12.8	48
17	Coordination polymer glass from a protic ionic liquid: proton conductivity and mechanical properties as an electrolyte. <i>Chemical Science</i> , 2020, 11, 5175-5181.	7.4	47
18	Two-dimensional proton-detected ³⁵ Cl/ ¹ H correlation solid-state NMR experiment under fast magic angle sample spinning: application to pharmaceutical compounds. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 6209-6216.	2.8	46

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19	Engineering Codrug Solid Forms: Mechanochemical Synthesis of an Indomethacin-Caffeine System. <i>Crystal Growth and Design</i> , 2017, 17, 5744-5752.	3.0	46
20	Understanding the Origins of Nucleophilic Hydride Reactivity of a Sodium Hydride-Iodide Composite. <i>Chemistry - A European Journal</i> , 2016, 22, 7108-7114.	3.3	44
21	Intermolecular Packing in <i>B. mori</i> Silk Fibroin: Multinuclear NMR Study of the Model Peptide (Ala-Gly) ₁₅ Defines a Heterogeneous Antiparallel Antipolar Mode of Assembly in the Silk II Form. <i>Macromolecules</i> , 2015, 48, 28-36.	4.8	43
22	Chemical Reactions and Their Kinetics of <i>atactic</i> -Polyacrylonitrile As Revealed by Solid-State ¹³ C NMR. <i>Macromolecules</i> , 2017, 50, 244-253.	4.8	39
23	Quantitative ¹ H- ¹ H Distances in Protonated Solids by Frequency-Selective Recoupling at Fast Magic Angle Spinning NMR. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5948-5954.	4.6	39
24	1020 MHz single-channel proton fast magic angle spinning solid-state NMR spectroscopy. <i>Journal of Magnetic Resonance</i> , 2015, 261, 1-5.	2.1	38
25	Fast Magic-Angle Spinning Three-Dimensional NMR Experiment for Simultaneously Probing ¹³ C and ¹⁵ N Proximities in Solids. <i>Analytical Chemistry</i> , 2016, 88, 11412-11419.	6.5	38
26	Evolution of CPMAS under fast magic-angle-spinning at 100 kHz and beyond. <i>Solid State Nuclear Magnetic Resonance</i> , 2015, 72, 9-16.	2.3	35
27	Determination of Accurate ¹ H Positions of (Ala-Gly) _n as a Sequential Peptide Model of Bombyx mori Silk Fibroin before Spinning (Silk I). <i>Macromolecules</i> , 2013, 46, 8046-8050.	4.8	31
28	Ligand-Functionalization-Controlled Activity of Metal-Organic Framework-Encapsulated Pt Nanocatalyst toward Activation of Water. <i>Nano Letters</i> , 2020, 20, 426-432.	9.1	30
29	Accurate NMR determination of ¹³ C- ¹ H or ¹⁵ N- ¹ H distances for unlabeled molecules. <i>Solid State Nuclear Magnetic Resonance</i> , 2016, 73, 15-21.	2.3	27
30	Determination of NH proton chemical shift anisotropy with ¹⁴ N- ¹ H heteronuclear decoupling using ultrafast magic angle spinning solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2015, 261, 133-140.	2.1	25
31	Fluoroalkyl end-capped oligomers possessing nonflammable and flammable characteristics in silica gel matrices after calcination at 800 °C under atmospheric conditions. <i>Polymer Journal</i> , 2010, 42, 167-171.	2.7	24
32	Difference in the structures of alanine and tetrapeptides with antiparallel β -sheet assessed by X-ray diffraction, solid-state NMR and chemical shift calculations by GIPAW. <i>Biopolymers</i> , 2014, 101, 13-20.	2.4	24
33	Ultrafast Magic-Angle Spinning: Benefits for the Acquisition of Ultrawide-Line NMR Spectra of Heavy Spin-Nuclei. <i>ChemPhysChem</i> , 2016, 17, 812-816.	2.1	24
34	Glass-phase coordination polymer displaying proton conductivity and guest-accessible porosity. <i>Chemical Communications</i> , 2019, 55, 8528-8531.	4.1	24
35	Can proton-proton recoupling in fully protonated solids provide quantitative, selective and efficient polarization transfer?. <i>Journal of Magnetic Resonance</i> , 2020, 317, 106777.	2.1	22
36	Analysis of water in Loy Yang brown coal using solid-state ¹ H NMR. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 1673-1679.	5.8	21

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37	Determination of relative orientation between ^1H CSA tensors from a 3D solid-state NMR experiment mediated through $^1\text{H}/^1\text{H}$ RFDR mixing under ultrafast MAS. <i>Solid State Nuclear Magnetic Resonance</i> , 2015, 70, 15-20.	2.3	20
38	Efficient symmetry-based ^1H -encoded DQ recoupling sequences for suppression of t_1 -noise in solid-state NMR spectroscopy at fast MAS. <i>Solid State Nuclear Magnetic Resonance</i> , 2021, 114, 101734.	2.3	20
39	Fluoroalkyl end-capped oligomer possessing a nonflammable characteristic in silica gel matrices even at 800°C under atmospheric conditions. <i>Journal of Applied Polymer Science</i> , 2009, 112, 3482-3487.	2.6	19
40	Accuracy of ^1H - ^1H distances measured using frequency selective recoupling and fast magic-angle spinning. <i>Journal of Chemical Physics</i> , 2020, 153, 084202.	3.0	19
41	Host-Guest Assembly of H-Bonding Networks in Covalent Organic Frameworks for Ultrafast and Anhydrous Proton Transfer. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 37172-37178.	8.0	19
42	2D NMR Observation of Strain-Induced ^1H -Form in Poly[(R)-3-hydroxybutyrate]. <i>Macromolecules</i> , 2006, 39, 4086-4092.	4.8	17
43	Characterization of local structures in amorphous and crystalline tris(8-hydroxyquinoline) aluminum(III) (Alq_3) by solid-state ^{27}Al MQMAS NMR spectroscopy. <i>Chemical Physics Letters</i> , 2009, 471, 80-84.	2.6	17
44	High-resolution NMR-based metabolic detection of microgram biopsies using a 1 mm ^1H - ^{13}C MAS probe. <i>Analyst</i> , 2015, 140, 8097-8100.	3.5	17
45	Preparation of Novel Fluoroalkyl End-Capped Trimethoxyvinylsilane Oligomeric Nanoparticle-Encapsulated Binaphthol: Encapsulated Binaphthol Remaining Thermally Stable Even at 800°C . <i>Bulletin of the Chemical Society of Japan</i> , 2010, 83, 75-81.	3.2	16
46	Proton-detected 3D $^1\text{H}/^{13}\text{C}/^1\text{H}$ correlation experiment for structural analysis in rigid solids under ultrafast-MAS above 60 kHz. <i>Journal of Chemical Physics</i> , 2015, 143, 164201.	3.0	16
47	Sensitivity enhanced $^{14}\text{N}/^{14}\text{N}$ correlations to probe inter-beta-sheet interactions using fast magic angle spinning solid-state NMR in biological solids. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 22583-22589.	2.8	16
48	3D Double-Quantum/Double-Quantum Exchange Spectroscopy of Protons under 100 kHz Magic Angle Spinning. <i>Journal of Physical Chemistry B</i> , 2017, 121, 5944-5952.	2.6	16
49	Resolution enhancement and proton proximity probed by 3D TQ/DQ/SQ proton NMR spectroscopy under ultrafast magic-angle-spinning beyond 70°C . <i>Journal of Magnetic Resonance</i> , 2019, 304, 78-86.	2.1	16
50	^1H -Noise Suppression by ^1H -Free Recoupling Sequences in Solid-State NMR for Structural Characterization of Fully Protonated Molecules at Fast MAS. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26332-26343.	3.1	16
51	Nano-Mole Scale Side-Chain Signal Assignment by ^1H -Detected Protein Solid-State NMR by Ultra-Fast Magic-Angle Spinning and Stereo-Array Isotope Labeling. <i>PLoS ONE</i> , 2015, 10, e0122714.	2.5	16
52	Electrostatic Constraints Assessed by ^1H MAS NMR Illuminate Differences in Crystalline Polymorphs. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4253-4257.	4.6	15
53	Exploiting heterogeneous time scale of dynamics to enhance 2D HETCOR solid-state NMR sensitivity. <i>Journal of Magnetic Resonance</i> , 2019, 309, 106615.	2.1	15
54	Synthesis and Structural Characterization of a Pure $\text{Zn}_4(\text{OH})_{12}(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$ Layered Double Hydroxide. <i>Inorganic Chemistry</i> , 2019, 58, 6114-6122.	4.0	15

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55	HR- ^{13}C MAS NMR-Based Metabolomics: Localized Metabolic Profiling of a Garlic Clove with ^{13}C Tissues. <i>Analytical Chemistry</i> , 2018, 90, 13736-13743.	6.5	14
56	One-Pot, Room-Temperature Conversion of CO_2 into Porous Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2021, 143, 16750-16757.	13.7	14
57	Network Size Control in Coordination Polymer Glasses and Its Impact on Viscosity and H^+ Conductivity. <i>Chemistry of Materials</i> , 2022, 34, 5832-5841.	6.7	14
58	3D $^{14}\text{N}/^1\text{H}$ Double Quantum/ ^1H Single Quantum Correlation Solid-State NMR for Probing the Parallel and Anti-Parallel Beta-Sheet Arrangement of Oligo-Peptides at Natural Abundance. <i>ChemPhysChem</i> , 2018, 19, 1841-1845.	2.1	13
59	Detection of remote proton-nitrogen correlations by ^1H -detected ^{14}N overtone solid-state NMR at fast MAS. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 10717-10726.	2.8	13
60	Satellite and central transitions selective $^1\text{H}/^{27}\text{Al}$ D-HMQC experiments at very fast MAS for quadrupolar couplings determination. <i>Solid State Nuclear Magnetic Resonance</i> , 2017, 84, 83-88.	2.3	12
61	Role of Anomalous Water Constraints in the Efficacy of Pharmaceuticals Probed by ^1H Solid-State NMR. <i>ChemistrySelect</i> , 2017, 2, 6797-6800.	1.5	12
62	^{14}N overtone nuclear magnetic resonance of rotating solids. <i>Journal of Chemical Physics</i> , 2018, 149, 064201.	3.0	12
63	Detection of side-chain proton resonances of fully protonated biosolids in nano-litre volumes by magic angle spinning solid-state NMR. <i>Journal of Biomolecular NMR</i> , 2018, 70, 177-185.	2.8	11
64	Intermolecular Arrangement of Fullerene Acceptors Proximal to Semiconducting Polymers in Mixed Bulk Heterojunctions. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7034-7039.	13.8	11
65	The distribution of reactive Ni^{2+} in 2D $\text{Mg}_2\text{A}^x\text{Ni}_x\text{Al-LDH}$ nanohybrid materials determined by solid state ^{27}Al MAS NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 25335-25342.	2.8	11
66	Tuning the Intercage Distance in Charge-Regulated Blackberry-Type Assemblies through Host-Guest Chemistry. <i>Chemistry - A European Journal</i> , 2019, 25, 5803-5808.	3.3	11
67	High-resolution proton-detected MAS experiments on self-assembled diphenylalanine nanotubes enabled by fast MAS and high magnetic field. <i>Journal of Magnetic Resonance</i> , 2020, 313, 106717.	2.1	11
68	Determination of the chemical shift tensor anisotropy and asymmetry of strongly dipolar coupled protons under fast MAS. <i>Solid State Nuclear Magnetic Resonance</i> , 2021, 114, 101743.	2.3	11
69	Resolution enhancement in proton double quantum magic-angle spinning spectra by constant-time acquisition. <i>Solid State Nuclear Magnetic Resonance</i> , 2017, 87, 104-110.	2.3	10
70	Determination of the ^{15}N chemical shift anisotropy in natural abundance samples by proton-detected 3D solid-state NMR under ultrafast MAS of 70 kHz. <i>Magnetic Resonance in Chemistry</i> , 2019, 57, 294-303.	1.9	10
71	A one-dimensional solid-state NMR approach for $^{14}\text{N}/^{14}\text{N}$ overtone correlation through $^1\text{H}/^1\text{H}$ mixing under fast MAS. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 25849-25853.	2.8	8
72	β -Cyclodextrin Encapsulation of Bicyclo[1.1.1]pentane Derivatives: A Storable Feedstock for Preparation of [1.1.1]Propellane. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2578-2582.	13.8	8

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73	Structure Solution of Nano-Crystalline Small Molecules Using MicroED and Solid-State NMR Dipolar-Based Experiments. <i>Molecules</i> , 2021, 26, 4652.	3.8	8
74	Solid-state NMR meets electron diffraction: determination of crystalline polymorphs of small organic microcrystalline samples. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2017, 73, 219-228.	0.5	7
75	Revealing the Local Proton Network through Three-Dimensional $^{13}\text{C}/^1\text{H}$ Double-Quantum/ ^1H Single-Quantum and ^1H Double-Quantum/ $^{13}\text{C}/^1\text{H}$ Single-Quantum Correlation Fast Magic-Angle Spinning Solid-State NMR Spectroscopy at Natural Abundance. <i>Journal of Physical Chemistry B</i> , 2017, 121, 8123-8131.	2.6	6
76	Maximizing the sensitivity in ^{13}C cross-polarization magic-angle-spinning solid-state NMR measurements with flip-back pulses. <i>Journal of Magnetic Resonance</i> , 2018, 294, 122-127.	2.1	6
77	Synthesis of porous coordination polymers using carbon dioxide as a direct source. <i>Chemical Communications</i> , 2019, 55, 9283-9286.	4.1	5
78	Capillary-Inserted Rotor Design for HR μ MAS NMR-Based Metabolomics on Mass-Limited Neurospheres. <i>Molecules</i> , 2017, 22, 1289.	3.8	4
79	Forcing the $\tilde{\text{lazy}}^{\text{TM}}$ protons to work. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 25829-25840.	2.8	4
80	Borohydride-containing coordination polymers: synthesis, air stability and dehydrogenation. <i>Chemical Science</i> , 2019, 10, 6193-6198.	7.4	4
81	A non-planar 2D covalent organic framework derived from a Z-shaped building unit. <i>Chemical Communications</i> , 2021, 57, 9236-9239.	4.1	4
82	Separating an overlapped ^1H peak and identifying its ^1H - ^1H correlations with the use of single-channel ^1H solid-state NMR at fast MAS. <i>Solid State Nuclear Magnetic Resonance</i> , 2022, 117, 101774.	2.3	2
83	$\hat{\pm}$ Cyclodextrin Encapsulation of Bicyclo[1.1.1]pentane Derivatives: A Storable Feedstock for Preparation of [1.1.1]Propellane. <i>Angewandte Chemie</i> , 2021, 133, 2610-2614.	2.0	1
84	Practical guides for ^1H detected solid-state NMR under fast MAS for small molecules. <i>Journal of Magnetic Resonance Open</i> , 2022, 10-11, 100062.	1.1	1
85	Titelbild: $\hat{\pm}$ Cyclodextrin Encapsulation of Bicyclo[1.1.1]pentane Derivatives: A Storable Feedstock for Preparation of [1.1.1]Propellane (<i>Angew. Chem.</i> 5/2021). <i>Angewandte Chemie</i> , 2021, 133, 2197-2197.	2.0	0