

Yusuke Nishiyama

List of Publications by Year in descending order

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85
papers

2,774
citations

185998

28
h-index

197535

49
g-index

89
all docs

89
docs citations

89
times ranked

2975
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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. | 1.5 | 2 |
| 2 | Detection of remote proton ^1H -nitrogen correlations by ^1H -detected ^{14}N overtone solid-state NMR at fast MAS. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 10717-10726. | 1.3 | 13 |
| 3 | 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. | 0.5 | 1 |
| 4 | Network Size Control in Coordination Polymer Glasses and Its Impact on Viscosity and H^+ Conductivity. <i>Chemistry of Materials</i> , 2022, 34, 5832-5841. | 3.2 | 14 |
| 5 | β -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. | 1.6 | 1 |
| 6 | 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. | 7.2 | 8 |
| 7 | A non-planar 2D covalent organic framework derived from a Z-shaped building unit. <i>Chemical Communications</i> , 2021, 57, 9236-9239. | 2.2 | 4 |
| 8 | Host ^1H -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. | 4.0 | 19 |
| 9 | Structure Solution of Nano-Crystalline Small Molecules Using MicroED and Solid-State NMR Dipolar-Based Experiments. <i>Molecules</i> , 2021, 26, 4652. | 1.7 | 8 |
| 10 | 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. | 1.5 | 11 |
| 11 | 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. | 1.5 | 20 |
| 12 | One-Pot, Room-Temperature Conversion of CO_2 into Porous Metal ^1H -Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2021, 143, 16750-16757. | 6.6 | 14 |
| 13 | Titelbild: β -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. | 1.6 | 0 |
| 14 | Selective Synthesis of a Salt and a Cocrystal of the Ethionamide ^1H -Salicylic Acid System. <i>Crystal Growth and Design</i> , 2020, 20, 906-915. | 1.4 | 49 |
| 15 | Ligand-Functionalization-Controlled Activity of Metal ^1H -Organic Framework-Encapsulated Pt Nanocatalyst toward Activation of Water. <i>Nano Letters</i> , 2020, 20, 426-432. | 4.5 | 30 |
| 16 | ^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. | 1.5 | 16 |
| 17 | Perfluoroalkyl-Functionalized Covalent Organic Frameworks with Superhydrophobicity for Anhydrous Proton Conduction. <i>Journal of the American Chemical Society</i> , 2020, 142, 14357-14364. | 6.6 | 167 |
| 18 | Accuracy of ^1H - ^1H distances measured using frequency selective recoupling and fast magic-angle spinning. <i>Journal of Chemical Physics</i> , 2020, 153, 084202. | 1.2 | 19 |

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|----|--|-----|-----------|
| 19 | Dynamic Transformation between Covalent Organic Frameworks and Discrete Organic Cages. <i>Journal of the American Chemical Society</i> , 2020, 142, 21279-21284. | 6.6 | 54 |
| 20 | 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. | 1.2 | 11 |
| 21 | Can proton-proton recoupling in fully protonated solids provide quantitative, selective and efficient polarization transfer?. <i>Journal of Magnetic Resonance</i> , 2020, 317, 106777. | 1.2 | 22 |
| 22 | Coordination polymer glass from a protic ionic liquid: proton conductivity and mechanical properties as an electrolyte. <i>Chemical Science</i> , 2020, 11, 5175-5181. | 3.7 | 47 |
| 23 | Understanding hydrogen-bonding structures of molecular crystals via electron and NMR nanocrystallography. <i>Nature Communications</i> , 2019, 10, 3537. | 5.8 | 48 |
| 24 | Glass-phase coordination polymer displaying proton conductivity and guest-accessible porosity. <i>Chemical Communications</i> , 2019, 55, 8528-8531. | 2.2 | 24 |
| 25 | Synthesis of porous coordination polymers using carbon dioxide as a direct source. <i>Chemical Communications</i> , 2019, 55, 9283-9286. | 2.2 | 5 |
| 26 | Exploiting heterogeneous time scale of dynamics to enhance 2D HETCOR solid-state NMR sensitivity. <i>Journal of Magnetic Resonance</i> , 2019, 309, 106615. | 1.2 | 15 |
| 27 | 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. | 1.1 | 10 |
| 28 | Using Dynamic Bonds to Enhance the Mechanical Performance: From Microscopic Molecular Interactions to Macroscopic Properties. <i>Macromolecules</i> , 2019, 52, 5014-5025. | 2.2 | 64 |
| 29 | Resolution enhancement and proton proximity probed by 3D TQ/DQ/SQ proton NMR spectroscopy under ultrafast magic-angle-spinning beyond 70 kHz. <i>Journal of Magnetic Resonance</i> , 2019, 304, 78-86. | 1.2 | 16 |
| 30 | Borohydride-containing coordination polymers: synthesis, air stability and dehydrogenation. <i>Chemical Science</i> , 2019, 10, 6193-6198. | 3.7 | 4 |
| 31 | Synthesis and Structural Characterization of a Pure $\text{ZnAl}_4(\text{OH})_{12}(\text{SO}_4)_2 \cdot 2.6\text{H}_2\text{O}$ Layered Double Hydroxide. <i>Inorganic Chemistry</i> , 2019, 58, 6114-6122. | 1.9 | 15 |
| 32 | Crystal melting and glass formation in copper thiocyanate based coordination polymers. <i>Chemical Communications</i> , 2019, 55, 5455-5458. | 2.2 | 57 |
| 33 | Tuning the Intercage Distance in Charge-Regulated Blackberry-Type Assemblies through Host-Guest Chemistry. <i>Chemistry - A European Journal</i> , 2019, 25, 5803-5808. | 1.7 | 11 |
| 34 | 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. | 6.6 | 232 |
| 35 | 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. | 1.6 | 11 |
| 36 | Intermolecular Arrangement of Fullerene Acceptors Proximal to Semiconducting Polymers in Mixed Bulk Heterojunctions. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7034-7039. | 7.2 | 11 |

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|----|--|-----|-----------|
| 37 | 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. | 6.6 | 117 |
| 38 | Forcing the α -lactam protons to work. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 25829-25840. | 1.3 | 4 |
| 39 | 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. | 1.3 | 8 |
| 40 | Quantitative ^1H - ^1H 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. | 2.1 | 39 |
| 41 | HR- ^{13}C MAS NMR-Based Metabolomics: Localized Metabolic Profiling of a Garlic Clove with ^{14}g Tissues. <i>Analytical Chemistry</i> , 2018, 90, 13736-13743. | 3.2 | 14 |
| 42 | The distribution of reactive Ni^{2+} in 2D $\text{Mg}_2\text{Ni}_x\text{Al-LDH}$ nanohybrid materials determined by solid state ^{27}Al MAS NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 25335-25342. | 1.3 | 11 |
| 43 | 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. | 1.2 | 6 |
| 44 | 3D $^{14}\text{N}/^1\text{H}$ Double Quantum/ ^1H Single Quantum Correlation Solid-State NMR for Probing the Parallel and Anti-Parallel β -Sheet Arrangement of Oligo-Peptides at Natural Abundance. <i>ChemPhysChem</i> , 2018, 19, 1841-1845. | 1.0 | 13 |
| 45 | ^{14}N overtone nuclear magnetic resonance of rotating solids. <i>Journal of Chemical Physics</i> , 2018, 149, 064201. | 1.2 | 12 |
| 46 | 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. | 1.5 | 12 |
| 47 | 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. | 0.2 | 7 |
| 48 | 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. | 1.5 | 10 |
| 49 | Exploring the salt-cocystal continuum with solid-state NMR using natural-abundance samples: implications for crystal engineering. <i>IUCr</i> , 2017, 4, 466-475. | 1.0 | 60 |
| 50 | 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. | 1.2 | 16 |
| 51 | 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. | 2.2 | 39 |
| 52 | Engineering Codrug Solid Forms: Mechanochemical Synthesis of an Indomethacin-Caffeine System. <i>Crystal Growth and Design</i> , 2017, 17, 5744-5752. | 1.4 | 46 |
| 53 | Electrostatic Constraints Assessed by ^1H MAS NMR Illuminate Differences in Crystalline Polymorphs. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4253-4257. | 2.1 | 15 |
| 54 | Hierarchical Self-Organization of AB _n Dendron-like Molecules into a Supramolecular Lattice Sequence. <i>ACS Central Science</i> , 2017, 3, 860-867. | 5.3 | 69 |

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|----|--|-----|-----------|
| 55 | Role of Anomalous Water Constraints in the Efficacy of Pharmaceuticals Probed by 1 H Solid-State NMR. <i>ChemistrySelect</i> , 2017, 2, 6797-6800. | 0.7 | 12 |
| 56 | Revealing the Local Proton Network through Three-Dimensional ¹³ C/ ¹ H Double-Quantum/ ¹ H Single-Quantum and ¹ H Double-Quantum/ ¹³ C/ ¹ 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. | 1.2 | 6 |
| 57 | Capillary-Inserted Rotor Design for HR-μMAS NMR-Based Metabolomics on Mass-Limited Neurospheres. <i>Molecules</i> , 2017, 22, 1289. | 1.7 | 4 |
| 58 | 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. | 1.5 | 122 |
| 59 | Understanding the Origins of Nucleophilic Hydride Reactivity of a Sodium Hydride-Iodide Composite. <i>Chemistry - A European Journal</i> , 2016, 22, 7108-7114. | 1.7 | 44 |
| 60 | Sensitivity enhanced ¹⁴ N/ ¹⁴ 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. | 1.3 | 16 |
| 61 | Fast Magic-Angle Spinning Three-Dimensional NMR Experiment for Simultaneously Probing ¹ H and ¹⁵ N Proximities in Solids. <i>Analytical Chemistry</i> , 2016, 88, 11412-11419. | 3.2 | 38 |
| 62 | Ultrafast Magic-Angle Spinning: Benefits for the Acquisition of Ultrawide-Line NMR Spectra of Heavy Spin-Nuclei. <i>ChemPhysChem</i> , 2016, 17, 812-816. | 1.0 | 24 |
| 63 | 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. | 6.6 | 146 |
| 64 | 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. | 1.3 | 46 |
| 65 | Accurate NMR determination of C-H or N-H distances for unlabeled molecules. <i>Solid State Nuclear Magnetic Resonance</i> , 2016, 73, 15-21. | 1.5 | 27 |
| 66 | Proton-detected 3D ¹ H/ ¹³ C/ ¹ H correlation experiment for structural analysis in rigid solids under ultrafast-MAS above 60 kHz. <i>Journal of Chemical Physics</i> , 2015, 143, 164201. | 1.2 | 16 |
| 67 | High-resolution NMR-based metabolic detection of microgram biopsies using a 1 mm HR-μMAS probe. <i>Analyst</i> , 2015, 140, 8097-8100. | 1.7 | 17 |
| 68 | Evolution of CPMAS under fast magic-angle-spinning at 100 kHz and beyond. <i>Solid State Nuclear Magnetic Resonance</i> , 2015, 72, 9-16. | 1.5 | 35 |
| 69 | 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. | 1.2 | 25 |
| 70 | 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. | 2.2 | 43 |
| 71 | 1020 MHz single-channel proton fast magic angle spinning solid-state NMR spectroscopy. <i>Journal of Magnetic Resonance</i> , 2015, 261, 1-5. | 1.2 | 38 |
| 72 | Determination of relative orientation between ¹ H CSA tensors from a 3D solid-state NMR experiment mediated through ¹ H/ ¹ H RFDR mixing under ultrafast MAS. <i>Solid State Nuclear Magnetic Resonance</i> , 2015, 70, 15-20. | 1.5 | 20 |

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|----|---|-----|-----------|
| 73 | Nano-Mole Scale Side-Chain Signal Assignment by ¹ H-Detected Protein Solid-State NMR by Ultra-Fast Magic-Angle Spinning and Stereo-Array Isotope Labeling. <i>PLoS ONE</i> , 2015, 10, e0122714. | 1.1 | 16 |
| 74 | Difference in the structures of alanine tripeptide 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. | 1.2 | 24 |
| 75 | Rapid measurement of multidimensional ¹ H solid-state NMR spectra at ultra-fast MAS frequencies. <i>Journal of Magnetic Resonance</i> , 2014, 239, 75-80. | 1.2 | 57 |
| 76 | 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. | 3.4 | 163 |
| 77 | 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. | 7.6 | 83 |
| 78 | 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. | 2.9 | 21 |
| 79 | 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. | 2.2 | 31 |
| 80 | Iodine Transfer Terpolymerization of Vinylidene Fluoride, β -Trifluoromethacrylic Acid and Hexafluoropropylene for Exceptional Thermally Stable Fluoropolymers/Silica Nanocomposites. <i>Macromolecules</i> , 2011, 44, 1114-1124. | 2.2 | 56 |
| 81 | 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. | 2.0 | 16 |
| 82 | 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. | 1.3 | 24 |
| 83 | 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. | 1.3 | 19 |
| 84 | 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. | 1.2 | 17 |
| 85 | 2D NMR Observation of Strain-Induced β -Form in Poly[(R)-3-hydroxybutyrate]. <i>Macromolecules</i> , 2006, 39, 4086-4092. | 2.2 | 17 |