Yoshitaka Ishii

List of Publications by Year
in descending order

63 papers	10,460 citations	125106 35 h-index	139680 61 g-index
63 all docs	63 docs citations	63 times ranked	14481 citing authors

#	Article	IF	Citations
1	Decoherence optimized tilted-angle cross polarization: A novel concept for sensitivity-enhanced solid-state NMR using ultra-fast magic angle spinning. Journal of Magnetic Resonance, 2021, 322, 106857.	1.2	8
2	Sensitivity-Enhanced Solid-State NMR Detection of Structural Differences and Unique Polymorphs in Pico- to Nanomolar Amounts of Brain-Derived and Synthetic 42-Residue Amyloid-Î² Fibrils. Journal of the American Chemical Society, 2021, 143, 11462-11472.	6.6	24
3	Atomic-level differences between brain parenchymal- and cerebrovascular-seeded AÎ² fibrils. Scientific Reports, 2021, 11, 247.	1.6	12
4	Efficient solvent suppression with adiabatic inversion for 1H-detected solid-state NMR. Journal of Biomolecular NMR, 2021, 75, 365-370.	1.6	4
5	NMR-based site-resolved profiling of Î²-amyloid misfolding reveals structural transitions from pathologically relevant spherical oligomer to fibril. Journal of Biological Chemistry, 2020, 295, 458-467.	1.6	21
6	An NMR-based approach reveals the core structure of the functional domain of SINEUP lncRNAs. Nucleic Acids Research, 2020, 48, 9346-9360.	6.5	18
7	The MIRAI Program and the New Super-High Field NMR Initiative and Its Relevance to the Development of Superconducting Joints in Japan. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-9.	1.1	41
8	Structural Analysis of the Terminal Groups in Commercial Hevea Natural Rubber by 2D-NMR with DOSY Filters and Multiple-WET Methods Using Ultrahigh-Field NMR. Biomacromolecules, 2019, 20, 1394-1400.	2.6	31
9	E22G Pathogenic Mutation of Î²-Amyloid (AÎ²) Enhances Misfolding of AÎ²40 by Unexpected Prion-like Cross Talk between AÎ²42 and AÎ²40. Journal of the American Chemical Society, 2018, 140, 2781-2784.	6.6	25
10	Progress in proton-detected solid-state NMR (SSNMR): Super-fast 2D SSNMR collection for nano-mole-scale proteins. Journal of Magnetic Resonance, 2018, 286, 99-109.	1.2	31
11	Solid-State NMR Studies of Amyloid Materials: A Protocol to Define an Atomic Model of AÎ²(1â€“42) in Amyloid Fibrils. Methods in Molecular Biology, 2018, 1777, 407-428.	0.4	2
12	Synthesis of ¹³C-,¹⁵N-Labeled Graphitic Carbon Nitrides and NMR-Based Evidence of Hydrogen-Bonding Assisted Two-Dimensional Assembly. Chemistry of Materials, 2017, 29, 5080-5089.	3.2	106
13	Structural factors controlling size reduction of graphene oxide in liquid processing. Carbon, 2017, 125, 360-369.	5.4	13
14	Spectral editing at ultra-fast magic-angle-spinning in solid-state NMR: facilitating protein sequential signal assignment by HIGHLIGHT approach. Journal of Biomolecular NMR, 2016, 64, 131-141.	1.6	7
15	Structureâ€“Function Analysis of the Non-Muscle Myosin Light Chain Kinase (nmMLCK) Isoform by NMR Spectroscopy and Molecular Modeling: Influence of MYLK Variants. PLoS ONE, 2015, 10, e0130515.	1.1	11
16	Evolution of CPMAS under fast magic-angle-spinning at 100 kHz and beyond. Solid State Nuclear Magnetic Resonance, 2015, 72, 9-16.	1.5	35
17	A facile approach to synthesize an oxo-functionalized graphene/polymer composite for low-voltage operating memory devices. Journal of Materials Chemistry C, 2015, 3, 8595-8604.	2.7	30
18	Structural Insight into an Alzheimerâ€™s Brain-Derived Spherical Assembly of Amyloid Î² by Solid-State NMR. Journal of the American Chemical Society, 2015, 137, 6480-6483.	6.6	54

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19	AÎ²(1â€“42) fibril structure illuminates self-recognition and replication of amyloid in Alzheimer's disease. Nature Structural and Molecular Biology, 2015, 22, 499-505.	3.6	701
20	Nano-mole scale sequential signal assignment by ¹H-detected protein solid-state NMR. Chemical Communications, 2015, 51, 15055-15058.	2.2	39
21	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. PLoS ONE, 2015, 10, e0122714.	1.1	16
22	Capturing a Reactive State of Amyloid Aggregates. Journal of Biological Chemistry, 2014, 289, 9998-10010.	1.6	43
23	Expanded graphite as superior anode for sodium-ion batteries. Nature Communications, 2014, 5, 4033.	5.8	1,472
24	Sensitivity and Resolution Enhanced Solid-State NMR for Paramagnetic Systems and Biomolecules under Very Fast Magic Angle Spinning. Accounts of Chemical Research, 2013, 46, 2127-2135.	7.6	83
25	Controlled functionalization of graphene oxide with sodium azide. Nanoscale, 2013, 5, 12136.	2.8	54
26	Solid-State NMR Study of Pathologically Relevant Amylioid Intermediate of 42-Residue Alzheimer'S Beta. Biophysical Journal, 2013, 104, 359a.	0.2	0
27	Revealing Protein Structures in Solid-Phase Peptide Synthesis by ¹³C Solid-State NMR: Evidence of Excessive Misfolding for Alzheimerâ€™s Î². Journal of the American Chemical Society, 2012, 134, 2848-2851.	6.6	13
28	Chemical structures of hydrazine-treated graphene oxide and generation of aromatic nitrogen doping. Nature Communications, 2012, 3, 638.	5.8	354
29	Molecular-Level Examination of Cu²⁺ Binding Structure for Amyloid Fibrils of 40-Residue Alzheimerâ€™s Î² by Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2011, 133, 3390-3400.	6.6	182
30	Expression and purification of 15N- and 13C-isotope labeled 40-residue human Alzheimerâ€™s Î²-amyloid peptide for NMR-based structural analysis. Protein Expression and Purification, 2011, 79, 16-24.	0.6	21
31	Distinguishing Polymorphs of the Semiconducting Pigment Copper Phthalocyanine by Solid-State NMR and Raman Spectroscopy. Journal of Physical Chemistry B, 2010, 114, 4400-4406.	1.2	31
32	NMR-Based Structural Modeling of Graphite Oxide Using Multidimensional ¹³C Solid-State NMR and ab Initio Chemical Shift Calculations. Journal of the American Chemical Society, 2010, 132, 5672-5676.	6.6	218
33	Nanomole-scale protein solid-state NMR by breaking intrinsic 1H T1 boundaries. Nature Methods, 2009, 6, 215-218.	9.0	190
34	1H and 13C High-Resolution Solid-State NMR of Paramagnetic Compounds Under Very Fast Magic Angle Spinning. , 2008, , 467-474.		2
35	Synthesis and Solid-State NMR Structural Characterization of ¹³ C-Labeled Graphite Oxide. Science, 2008, 321, 1815-1817.	6.0	1,092
36	Progress in C13 and H1 solid-state nuclear magnetic resonance for paramagnetic systems under very fast magic angle spinning. Journal of Chemical Physics, 2008, 128, 052210.	1.2	61

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37	Elucidating Connectivity and Metal-Binding Structures of Unlabeled Paramagnetic Complexes by13C and1H Solid-State NMR under Fast Magic Angle Spinning. Journal of Physical Chemistry B, 2007, 111, 9693-9696.	1.2	29
38	Characterization of Polymorphs and Solid-State Reactions for Paramagnetic Systems by13C Solid-State NMR and ab Initio Calculations. Journal of the American Chemical Society, 2007, 129, 10968-10969.	6.6	30
39	Efficient low-power heteronuclear decoupling in13C high-resolution solid-state NMR under fast magic angle spinning. Magnetic Resonance in Chemistry, 2007, 45, S221-S230.	1.1	84
40	Structural and mechanical characterization of platelet graphite nanofibers. Carbon, 2007, 45, 416-423.	5.4	29
41	Sensitivity enhancement in 13C solid-state NMR of protein microcrystals by use of paramagnetic metal ions for optimizing 1H T1 relaxation. Journal of Magnetic Resonance, 2007, 184, 350-356.	1.2	118
42	Evidence of fibril-like Î²-sheet structures in a neurotoxic amyloid intermediate of Alzheimer's Î²-amyloid. Nature Structural and Molecular Biology, 2007, 14, 1157-1164.	3.6	516
43	Sensitivity enhancement, assignment, and distance measurement in 13C solid-state NMR spectroscopy for paramagnetic systems under fast magic angle spinning. Journal of Magnetic Resonance, 2006, 181, 233-243.	1.2	75
44	Capturing Intermediate Structures of Alzheimer's Î²-Amyloid, AÎ²(1â^'40), by Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2005, 127, 13472-13473.	6.6	137
45	Enhanced Sensitivity and Resolution in 1H Solid-State NMR Spectroscopy of Paramagnetic Complexes under Very Fast Magic Angle Spinning. Journal of the American Chemical Society, 2005, 127, 5796-5797.	6.6	84
46	A New Approach in 1D and 2D13C High-Resolution Solid-State NMR Spectroscopy of Paramagnetic Organometallic Complexes by Very Fast Magic-Angle Spinning. Journal of the American Chemical Society, 2003, 125, 3438-3439.	6.6	133
47	Constraints on Supramolecular Structure in Amyloid Fibrils from Two-Dimensional Solid-State NMR Spectroscopy with Uniform Isotopic Labeling. Journal of the American Chemical Society, 2003, 125, 6606-6607.	6.6	111
48	A structural model for Alzheimer's Â-amyloid fibrils based on experimental constraints from solid state NMR. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 16742-16747.	3.3	1,757
49	Sensitivity Enhancement in Solid-State13C NMR of Synthetic Polymers and Biopolymers by1H NMR Detection with High-Speed Magic Angle Spinning. Journal of the American Chemical Society, 2001, 123, 2921-2922.	6.6	165
50	13Câ€“13C dipolar recoupling under very fast magic angle spinning in solid-state nuclear magnetic resonance: Applications to distance measurements, spectral assignments, and high-throughput secondary-structure determination. Journal of Chemical Physics, 2001, 114, 8473-8483.	1.2	270
51	Measurement of dipole-coupled lineshapes in a many-spin system by constant-time two-dimensional solid state NMR with high-speed magic-angle spinning. Chemical Physics, 2001, 266, 231-236.	0.9	66
52	Controlling residual dipolar couplings in high-resolution NMR of proteins by strain induced alignment in a gel. Journal of Biomolecular NMR, 2001, 21, 141-151.	1.6	94
53	Sensitivity Enhancement in Solid State 15N NMR by Indirect Detection with High-Speed Magic Angle Spinning. Journal of Magnetic Resonance, 2000, 142, 199-204.	1.2	244
54	Amyloid Fibril Formation by AÎ²16-22, a Seven-Residue Fragment of the Alzheimer's Î²-Amyloid Peptide, and Structural Characterization by Solid State NMRâ€. Biochemistry, 2000, 39, 13748-13759.	1.2	683

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55	Alignment of Biopolymers in Strained Gels:Â A New Way To Create Detectable Dipoleâ^'Dipole Couplings in High-Resolution Biomolecular NMR. Journal of the American Chemical Society, 2000, 122, 9340-9341.	6.6	350
56	Multidimensional Heteronuclear Correlation Spectroscopy of a Uniformly15N- and13C-Labeled Peptide Crystal:Â Toward Spectral Resolution, Assignment, and Structure Determination of Oriented Molecules in Solid-State NMR. Journal of the American Chemical Society, 2000, 122, 1443-1455.	6.6	34
57	Determination of peptide Ï† angles in solids by relayed anisotropy correlation NMR. Solid State Nuclear Magnetic Resonance, 1998, 11, 169-175.	1.5	32
58	Solid-State NMR Study of Poly(phenylacetylene) Synthesized with a Rhodium Complex Initiator. Macromolecules, 1998, 31, 3405-3408.	2.2	36
59	Manipulation of nuclear spin Hamiltonians by rf-field modulations and its applications to observation of powder patterns under magic-angle spinning. Journal of Chemical Physics, 1998, 109, 1366-1374.	1.2	36
60	Theory and simulation of vibrational effects on structural measurements by solid-state nuclear magnetic resonance. Journal of Chemical Physics, 1997, 107, 2760-2774.	1.2	96
61	Relayed anisotropy correlation NMR: determination of dihedral angles in solids. Chemical Physics Letters, 1996, 256, 133-140.	1.2	100
62	Determination of Interheteronuclear Distances by Observation of the Pake-Doublet Patterns Using the MLEV-8 Sequences with Composite Pulses. Journal of Magnetic Resonance Series A, 1995, 115, 116-118.	1.6	18
63	13Cî—¸1H dipolar recoupling dynamics in 13C multiple-pulse solid-state NMR. Chemical Physics Letters, 1995, 246, 439-445.	1.2	88