Yoshitaka Ishii

List of Publications by Year
in descending order

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63 papers	10,460 citations	109321 35 h-index	123424 61 g-index
63 all docs	63 docs citations	63 times ranked	12493 citing authors

#	Article	IF	Citations
1	A structural model for Alzheimer's Î²-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.	7.1	1,757
2	Expanded graphite as superior anode for sodium-ion batteries. Nature Communications, 2014, 5, 4033.	12.8	1,472
3	Synthesis and Solid-State NMR Structural Characterization of ¹³ C-Labeled Graphite Oxide. Science, 2008, 321, 1815-1817.	12.6	1,092
4	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.	8.2	701
5	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.	2.5	683
6	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.	8.2	516
7	Chemical structures of hydrazine-treated graphene oxide and generation of aromatic nitrogen doping. Nature Communications, 2012, 3, 638.	12.8	354
8	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.	13.7	350
9	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.	3.0	270
10	Sensitivity Enhancement in Solid State 15N NMR by Indirect Detection with High-Speed Magic Angle Spinning. Journal of Magnetic Resonance, 2000, 142, 199-204.	2.1	244
11	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.	13.7	218
12	Nanomole-scale protein solid-state NMR by breaking intrinsic 1H T1 boundaries. Nature Methods, 2009, 6, 215-218.	19.0	190
13	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.	13.7	182
14	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.	13.7	165
15	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.	13.7	137
16	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.	13.7	133
17	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.	2.1	118
18	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.	13.7	111

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19	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.	6.7	106
20	Relayed anisotropy correlation NMR: determination of dihedral angles in solids. Chemical Physics Letters, 1996, 256, 133-140.	2.6	100
21	Theory and simulation of vibrational effects on structural measurements by solid-state nuclear magnetic resonance. Journal of Chemical Physics, 1997, 107, 2760-2774.	3.0	96
22	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.	2.8	94
23	13Cî—¸1H dipolar recoupling dynamics in 13C multiple-pulse solid-state NMR. Chemical Physics Letters, 1995, 246, 439-445.	2.6	88
24	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.	13.7	84
25	Efficient low-power heteronuclear decoupling in13C high-resolution solid-state NMR under fast magic angle spinning. Magnetic Resonance in Chemistry, 2007, 45, S221-S230.	1.9	84
26	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.	15.6	83
27	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.	2.1	75
28	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.	1.9	66
29	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.	3.0	61
30	Controlled functionalization of graphene oxide with sodium azide. Nanoscale, 2013, 5, 12136.	5.6	54
31	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.	13.7	54
32	Capturing a Reactive State of Amyloid Aggregates. Journal of Biological Chemistry, 2014, 289, 9998-10010.	3.4	43
33	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.	1.7	41
34	Nano-mole scale sequential signal assignment by ¹H-detected protein solid-state NMR. Chemical Communications, 2015, 51, 15055-15058.	4.1	39
35	Solid-State NMR Study of Poly(phenylacetylene) Synthesized with a Rhodium Complex Initiator. Macromolecules, 1998, 31, 3405-3408.	4.8	36
36	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.	3.0	36

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37	Evolution of CPMAS under fast magic-angle-spinning at 100 kHz and beyond. Solid State Nuclear Magnetic Resonance, 2015, 72, 9-16.	2.3	35
38	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.	13.7	34
39	Determination of peptide Ï† angles in solids by relayed anisotropy correlation NMR. Solid State Nuclear Magnetic Resonance, 1998, 11, 169-175.	2.3	32
40	Distinguishing Polymorphs of the Semiconducting Pigment Copper Phthalocyanine by Solid-State NMR and Raman Spectroscopy. Journal of Physical Chemistry B, 2010, 114, 4400-4406.	2.6	31
41	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.	2.1	31
42	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.	5.4	31
43	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.	13.7	30
44	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.	5.5	30
45	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.	2.6	29
46	Structural and mechanical characterization of platelet graphite nanofibers. Carbon, 2007, 45, 416-423.	10.3	29
47	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.	13.7	25
48	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.	13.7	24
49	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.	1.3	21
50	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.	3.4	21
51	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
52	An NMR-based approach reveals the core structure of the functional domain of SINEUP lncRNAs. Nucleic Acids Research, 2020, 48, 9346-9360.	14.5	18
53	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.	2.5	16
54	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.	13.7	13

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55	Structural factors controlling size reduction of graphene oxide in liquid processing. Carbon, 2017, 125, 360-369.	10.3	13
56	Atomic-level differences between brain parenchymal- and cerebrovascular-seeded AÎ² fibrils. Scientific Reports, 2021, 11, 247.	3.3	12
57	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.	2.5	11
58	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.	2.1	8
59	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.	2.8	7
60	Efficient solvent suppression with adiabatic inversion for 1H-detected solid-state NMR. Journal of Biomolecular NMR, 2021, 75, 365-370.	2.8	4
61	1H and 13C High-Resolution Solid-State NMR of Paramagnetic Compounds Under Very Fast Magic Angle Spinning. , 2008, , 467-474.		2
62	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.	0.9	2
63	Solid-State NMR Study of Pathologically Relevant Amylioid Intermediate of 42-Residue Alzheimer'S Beta. Biophysical Journal, 2013, 104, 359a.	0.5	0