Robert Tycko

List of Publications by Year
in descending order

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162 papers	23,973 citations	13099 68 h-index	7518 151 g-index
169 all docs	169 docs citations	169 times ranked	13852 citing authors

#	Article	IF	Citations
1	Time-resolved DEER EPR and solid-state NMR afford kinetic and structural elucidation of substrate binding to Ca ²⁺ -ligated calmodulin. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	28
2	Enhanced spatial resolution in magnetic resonance imaging by dynamic nuclear polarization at 5 K. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	6
3	Millisecond Time-Resolved Solid-State NMR Initiated by Rapid Inverse Temperature Jumps. Journal of the American Chemical Society, 2022, 144, 9920-9925.	13.7	6
4	Transiently structured head domains control intermediate filament assembly. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	32
5	Automated picking of amyloid fibrils from cryo-EM images for helical reconstruction with RELION. Journal of Structural Biology, 2021, 213, 107736.	2.8	5
6	Constraints on the Structure of Fibrils Formed by a Racemic Mixture of Amyloid-Î² Peptides from Solid-State NMR, Electron Microscopy, and Theory. Journal of the American Chemical Society, 2021, 143, 13299-13313.	13.7	17
7	Molecular structure of a prevalent amyloid-Î² fibril polymorph from Alzheimer's disease brain tissue. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	108
8	Structural differences in amyloid-Î² fibrils from brains of nondemented elderly individuals and Alzheimer's disease patients. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	23
9	Succinyl-DOTOPA: An effective triradical dopant for low-temperature dynamic nuclear polarization with high solubility in aqueous solvent mixtures at neutral pH. Journal of Magnetic Resonance, 2020, 311, 106672.	2.1	11
10	Side Chain Hydrogen-Bonding Interactions within Amyloid-like Fibrils Formed by the Low-Complexity Domain of FUS: Evidence from Solid State Nuclear Magnetic Resonance Spectroscopy. Biochemistry, 2020, 59, 364-378.	2.5	31
11	Molecular structure and interactions within amyloid-like fibrils formed by a low-complexity protein sequence from FUS. Nature Communications, 2020, 11, 5735.	12.8	76
12	Millisecond Time-Resolved Solid-State NMR Reveals a Two-Stage Molecular Mechanism for Formation of Complexes between Calmodulin and a Target Peptide from Myosin Light Chain Kinase. Journal of the American Chemical Society, 2020, 142, 21220-21232.	13.7	22
13	Slice selection in low-temperature, DNP-enhanced magnetic resonance imaging by Lee-Goldburg spin-locking and phase modulation. Journal of Magnetic Resonance, 2020, 313, 106715.	2.1	5
14	Effects of an HIV-1 maturation inhibitor on the structure and dynamics of CA-SP1 junction helices in virus-like particles. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10286-10293.	7.1	19
15	Application of millisecond time-resolved solid state NMR to the kinetics and mechanism of melittin self-assembly. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16717-16722.	7.1	42
16	Optimization of band-selective homonuclear dipolar recoupling in solid-state NMR by a numerical phase search. Journal of Chemical Physics, 2019, 150, 154201.	3.0	10
17	Segmental isotopic labeling of HIV-1 capsid protein assemblies for solid state NMR. Journal of Biomolecular NMR, 2018, 70, 103-114.	2.8	31
18	Indirect detection in solid state NMR: An illustrious history and a bright future. Journal of Magnetic Resonance, 2018, 288, 122-123.	2.1	5

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19	Coexisting order and disorder within a common 40-residue amyloid-Î² fibril structure in Alzheimer's disease brain tissue. Chemical Communications, 2018, 54, 5070-5073.	4.1	26
20	Depletion of amyloidâ€Î² peptides from solution by sequestration within fibrilâ€seeded hydrogels. Protein Science, 2018, 27, 1218-1230.	7.6	6
21	Low-temperature magnetic resonance imaging with 2.8â€Î¼m isotropic resolution. Journal of Magnetic Resonance, 2018, 287, 47-55.	2.1	14
22	Temperature-Dependent Nuclear Spin Relaxation Due to Paramagnetic Dopants Below 30 K: Relevance to DNP-Enhanced Magnetic Resonance Imaging. Journal of Physical Chemistry B, 2018, 122, 11731-11742.	2.6	7
23	Structural characterization of the D290V mutation site in hnRNPA2 low-complexityâ€“domain polymers. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9782-E9791.	7.1	50
24	Molecular, Local, and Network-Level Basis for the Enhanced Stiffness of Hydrogel Networks Formed from Coassembled Racemic Peptides: Predictions from Pauling and Corey. ACS Central Science, 2017, 3, 586-597.	11.3	107
25	Structural variation in amyloid-Î² fibrils from Alzheimer's disease clinical subtypes. Nature, 2017, 541, 217-221.	27.8	528
26	Structure of FUS Protein Fibrils and Its Relevance to Self-Assembly and Phase Separation of Low-Complexity Domains. Cell, 2017, 171, 615-627.e16.	28.9	605
27	Major Variations in HIV-1 Capsid Assembly Morphologies Involve Minor Variations in Molecular Structures of Structurally Ordered Protein Segments. Journal of Biological Chemistry, 2016, 291, 13098-13112.	3.4	15
28	Helical Conformation in the CA-SP1 Junction of the Immature HIV-1 Lattice Determined from Solid-State NMR of Virus-like Particles. Journal of the American Chemical Society, 2016, 138, 12029-12032.	13.7	35
29	Molecular Structure of Aggregated Amyloid-Î²: Insights from Solid-State Nuclear Magnetic Resonance. Cold Spring Harbor Perspectives in Medicine, 2016, 6, a024083.	6.2	71
30	Structure of aggregates revealed. Nature, 2016, 537, 492-493.	27.8	38
31	Structure of the Dimerization Interface in the Mature HIV-1 Capsid Protein Lattice from Solid State NMR of Tubular Assemblies. Journal of the American Chemical Society, 2016, 138, 8538-8546.	13.7	20
32	Low-temperature dynamic nuclear polarization with helium-cooled samples and nitrogen-driven magic-angle spinning. Journal of Magnetic Resonance, 2016, 264, 99-106.	2.1	63
33	Preparation of Amyloid Fibrils Seeded from Brain and Meninges. Methods in Molecular Biology, 2016, 1345, 299-312.	0.9	11
34	Molecular structure of monomorphic peptide fibrils within a kinetically trapped hydrogel network. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9816-9821.	7.1	117
35	On the problem of resonance assignments in solid state NMR of uniformly 15N,13C-labeled proteins. Journal of Magnetic Resonance, 2015, 253, 166-172.	2.1	10
36	Successive Stages of Amyloid-Î² Self-Assembly Characterized by Solid-State Nuclear Magnetic Resonance with Dynamic Nuclear Polarization. Journal of the American Chemical Society, 2015, 137, 8294-8307.	13.7	103

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37	Amyloid Polymorphism: Structural Basis and Neurobiological Relevance. Neuron, 2015, 86, 632-645.	8.1	347
38	Micron-scale magnetic resonance imaging of both liquids and solids. Journal of Magnetic Resonance, 2015, 260, 1-9.	2.1	20
39	Perturbation of nuclear spin polarizations in solid state NMR of nitroxide-doped samples by magic-angle spinning without microwaves. Journal of Chemical Physics, 2014, 140, 184201.	3.0	133
40	On Mechanisms of Dynamic Nuclear Polarization in Solids. Israel Journal of Chemistry, 2014, 54, 39-46.	2.3	28
41	Remote sensing of sample temperatures in nuclear magnetic resonance using photoluminescence of semiconductor quantum dots. Journal of Magnetic Resonance, 2014, 244, 64-67.	2.1	7
42	Physical and structural basis for polymorphism in amyloid fibrils. Protein Science, 2014, 23, 1528-1539.	7.6	206
43	Locating folds of the in-register parallel Î²-sheet of the Sup35p prion domain infectious amyloid. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4615-22.	7.1	67
44	Site-Specific Structural Variations Accompanying Tubular Assembly of the HIV-1 Capsid Protein. Journal of Molecular Biology, 2014, 426, 1109-1127.	4.2	49
45	Synthesis and evaluation of nitroxide-based oligoradicals for low-temperature dynamic nuclear polarization in solid state NMR. Journal of Magnetic Resonance, 2014, 244, 98-106.	2.1	36
46	Molecular Structure of Î²-Amyloid Fibrils in Alzheimerâ€™s Disease Brain Tissue. Cell, 2013, 154, 1257-1268.	28.9	986
47	Molecular Structures of Amyloid and Prion Fibrils: Consensus versus Controversy. Accounts of Chemical Research, 2013, 46, 1487-1496.	15.6	254
48	Dynamic nuclear polarization-enhanced 13C NMR spectroscopy of static biological solids. Journal of Magnetic Resonance, 2013, 231, 5-14.	2.1	23
49	Polymorph-Specific Kinetics and Thermodynamics of Î²-Amyloid Fibril Growth. Journal of the American Chemical Society, 2013, 135, 6860-6871.	13.7	141
50	Î²-Amyloid Fibril Structures, In Vitro and In Vivo. Research and Perspectives in Alzheimer's Disease, 2013, , 19-31.	0.1	1
51	NMR at Low and Ultralow Temperatures. Accounts of Chemical Research, 2013, 46, 1923-1932.	15.6	64
52	Solid state nuclear magnetic resonance with magic-angle spinning and dynamic nuclear polarization below 25K. Journal of Magnetic Resonance, 2013, 226, 100-106.	2.1	66
53	Theory for cross effect dynamic nuclear polarization under magic-angle spinning in solid state nuclear magnetic resonance: The importance of level crossings. Journal of Chemical Physics, 2012, 137, 084508.	3.0	200
54	Zero-quantum stochastic dipolar recoupling in solid state nuclear magnetic resonance. Journal of Chemical Physics, 2012, 137, 104201.	3.0	7

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55	Dynamic nuclear polarization-enhanced 1Hâ€“13C double resonance NMR in static samples below 20 K. Journal of Magnetic Resonance, 2012, 221, 32-40.	2.1	32
56	Cell-free Formation of RNA Granules: Low Complexity Sequence Domains Form Dynamic Fibers within Hydrogels. Cell, 2012, 149, 753-767.	28.9	1,725
57	Fiber Diffraction Data Indicate a Hollow Core for the Alzheimer's AÎ² 3-Fold Symmetric Fibril. Journal of Molecular Biology, 2012, 423, 454-461.	4.2	34
58	Antiparallel Î²-sheet architecture in Iowa-mutant Î²-amyloid fibrils. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4443-4448.	7.1	316
59	Restraints on backbone conformations in solid state NMR studies of uniformly labeled proteins from quantitative amide 15Nâ€“15N and carbonyl 13Câ€“13C dipolar recoupling data. Journal of Magnetic Resonance, 2012, 218, 115-127.	2.1	23
60	The Japanese Mutant AÎ² (Î”E22-AÎ²_{1â€“39}) Forms Fibrils Instantaneously, with Low-Thioflavin T Fluorescence: Seeding of Wild-Type AÎ²_{1â€“40} into Atypical Fibrils by Î”E22-AÎ²_{1â€“39}. Biochemistry, 2011, 50, 2026-2039.	2.5	88
61	Evidence from Solid-State NMR for Nonhelical Conformations in the Transmembrane Domain of the Amyloid Precursor Protein. Biophysical Journal, 2011, 100, 711-719.	0.5	35
62	Simulated Self-Assembly of the HIV-1 Capsid: Protein Shape and Native Contacts Are Sufficient for Two-Dimensional Lattice Formation. Biophysical Journal, 2011, 100, 3035-3044.	0.5	51
63	Segmental Polymorphism in a Functional Amyloid. Biophysical Journal, 2011, 101, 2242-2250.	0.5	59
64	Experimentally Derived Structural Constraints for Amyloid Fibrils of Wild-Type Transthyretin. Biophysical Journal, 2011, 101, 2485-2492.	0.5	29
65	The Core of Ure2p Prion Fibrils Is Formed by the N-Terminal Segment in a Parallel Cross-Î² Structure: Evidence from Solid-State NMR. Journal of Molecular Biology, 2011, 409, 263-277.	4.2	56
66	Solid-State NMR Studies of Amyloid Fibril Structure. Annual Review of Physical Chemistry, 2011, 62, 279-299.	10.8	493
67	Structural Evolution of Iowa Mutant Î²-Amyloid Fibrils from Polymorphic to Homogeneous States under Repeated Seeded Growth. Journal of the American Chemical Society, 2011, 133, 4018-4029.	13.7	92
68	A general Monte Carlo/simulated annealing algorithm for resonance assignment in NMR of uniformly labeled biopolymers. Journal of Biomolecular NMR, 2011, 50, 267-276.	2.8	42
69	Repeat Domains of Melanosome Matrix Protein Pmel17 Orthologs Form Amyloid Fibrils at the Acidic Melanosomal pH. Journal of Biological Chemistry, 2011, 286, 8385-8393.	3.4	45
70	Low-temperature dynamic nuclear polarization at 9.4 T with a 30 mW microwave source. Journal of Magnetic Resonance, 2010, 204, 303-313.	2.1	155
71	A Monte Carlo/simulated annealing algorithm for sequential resonance assignment in solid state NMR of uniformly labeled proteins with magic-angle spinning. Journal of Magnetic Resonance, 2010, 205, 304-314.	2.1	48
72	What can solid state NMR contribute to our understanding of protein folding?. Biophysical Chemistry, 2010, 151, 10-21.	2.8	27

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73	Structural and dynamical characterization of tubular HIVâ€1 capsid protein assemblies by solid state nuclear magnetic resonance and electron microscopy. Protein Science, 2010, 19, 716-730.	7.6	49
74	Oligomerization state and supramolecular structure of the HIVâ€1 Vpu protein transmembrane segment in phospholipid bilayers. Protein Science, 2010, 19, 1877-1896.	7.6	60
75	Detection of a Transient Intermediate in a Rapid Protein Folding Process by Solid-State Nuclear Magnetic Resonance. Journal of the American Chemical Society, 2010, 132, 24-25.	13.7	83
76	The Î±-Helical C-Terminal Domain of Full-Length Recombinant PrP Converts to an In-Register Parallel Î²-Sheet Structure in PrP Fibrils: Evidence from Solid State Nuclear Magnetic Resonance. Biochemistry, 2010, 49, 9488-9497.	2.5	135
77	Prospects for sub-micron solid state nuclear magnetic resonance imaging with low-temperature dynamic nuclear polarization. Physical Chemistry Chemical Physics, 2010, 12, 5779.	2.8	25
78	An Achilles' Heel in an Amyloidogenic Protein and Its Repair. Journal of Biological Chemistry, 2010, 285, 10806-10821.	3.4	49
79	The Functional Curli Amyloid Is Not Based on In-register Parallel Î²-Sheet Structure. Journal of Biological Chemistry, 2009, 284, 25065-25076.	3.4	119
80	Zero-quantum frequency-selective recoupling of homonuclear dipole-dipole interactions in solid state nuclear magnetic resonance. Journal of Chemical Physics, 2009, 131, 045101.	3.0	26
81	Measurement of amyloid fibril mass-per-length by tilted-beam transmission electron microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14339-14344.	7.1	122
82	Measurement of sample temperatures under magic-angle spinning from the chemical shift and spin-lattice relaxation rate of 79Br in KBr powder. Journal of Magnetic Resonance, 2009, 196, 84-87.	2.1	253
83	Two Prion Variants of Sup35p Have In-Register Parallel Î²-Sheet Structures, Independent of Hydration. Biochemistry, 2009, 48, 5074-5082.	2.5	89
84	Evidence for Novel Î²-Sheet Structures in Iowa Mutant Î²-Amyloid Fibrils. Biochemistry, 2009, 48, 6072-6084.	2.5	132
85	Quantitative Determination of Site-Specific Conformational Distributions in an Unfolded Protein by Solid-State Nuclear Magnetic Resonance. Journal of Molecular Biology, 2009, 392, 1055-1073.	4.2	41
86	Seeded growth of Î²-amyloid fibrils from Alzheimer's brain-derived fibrils produces a distinct fibril structure. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7443-7448.	7.1	303
87	Solid-state NMR in biological and materials physics. Physics Today, 2009, 62, 44-49.	0.3	84
88	Molecular structure of amyloid and prion fibrils. FASEB Journal, 2009, 23, 423.3.	0.5	0
89	Biomolecular solid state NMR with magic-angle spinning at 25K. Journal of Magnetic Resonance, 2008, 195, 179-186.	2.1	97
90	Introduction to Special Topic: New Developments in Magnetic Resonance. Journal of Chemical Physics, 2008, 128, 052101.	3.0	13

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91	Theory of Stochastic Dipolar Recoupling in Solid-State Nuclear Magnetic Resonanceâ€. Journal of Physical Chemistry B, 2008, 112, 6114-6121.	2.6	22
92	Amyloids of Shuffled Prion Domains That Form Prions Have a Parallel In-Register Î²-Sheet Structureâ€. Biochemistry, 2008, 47, 4000-4007.	2.5	63
93	Molecular structural basis for polymorphism in Alzheimer's Î²-amyloid fibrils. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18349-18354.	7.1	1,046
94	Amyloid of Rnq1p, the basis of the [PIN ⁺] prion, has a parallel in-register Î²-sheet structure. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2403-2408.	7.1	141
95	Symmetry-based constant-time homonuclear dipolar recoupling in solid state NMR. Journal of Chemical Physics, 2007, 126, 064506.	3.0	117
96	Stochastic Dipolar Recoupling in Nuclear Magnetic Resonance of Solids. Physical Review Letters, 2007, 99, 187601.	7.8	32
97	Peptide Conformation and Supramolecular Organization in Amylin Fibrils:â€‰ Constraints from Solid-State NMR. Biochemistry, 2007, 46, 13505-13522.	2.5	542
98	Characterization of Î²-Sheet Structure in Ure2p₁₋₈₉ Yeast Prion Fibrils by Solid-State Nuclear Magnetic Resonance. Biochemistry, 2007, 46, 13149-13162.	2.5	154
99	Molecular Alignment within Î²-Sheets in AÎ²14-23 Fibrils: Solid-State NMR Experiments and Theoretical Predictions. Biophysical Journal, 2007, 92, 594-602.	0.5	51
100	Conformational constraints in solid-state NMR of uniformly labeled polypeptides from double single-quantum-filtered rotational echo double resonance. Magnetic Resonance in Chemistry, 2007, 45, S101-S106.	1.9	4
101	Amyloid of the prion domain of Sup35p has an in-register parallel beta-sheet structure. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19754-19759.	7.1	280
102	Experimental Constraints on Quaternary Structure in Alzheimer's Î²-Amyloid Fibrilsâ€. Biochemistry, 2006, 45, 498-512.	2.5	1,019
103	Polymorphic Fibril Formation by Residues 10â€“40 of the Alzheimerâ€™s Î²-Amyloid Peptide. Biophysical Journal, 2006, 90, 4618-4629.	0.5	196
104	Structure and Dynamics of the HIV-1 Vpu Transmembrane Domain Revealed by Solid-State NMR with Magic-Angle Spinningâ€. Biochemistry, 2006, 45, 918-933.	2.5	65
105	Molecular structure of amyloid fibrils: insights from solid-state NMR. Quarterly Reviews of Biophysics, 2006, 39, 1-55.	5.7	486
106	Characterization of Amyloid Structures at the Molecular Level by Solid State Nuclear Magnetic Resonance Spectroscopy. Methods in Enzymology, 2006, 413, 103-122.	1.0	41
107	Solid-State NMR as a Probe of Amyloid Structure. Protein and Peptide Letters, 2006, 13, 229-234.	0.9	35
108	Frequency-selective homonuclear dipolar recoupling in solid state NMR. Journal of Chemical Physics, 2006, 124, 194303.	3.0	58

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109	Probing site-specific conformational distributions in protein folding with solid-state NMR. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 3284-3289.	7.1	91
110	Self-Propagating, Molecular-Level Polymorphism in Alzheimer's ÃŸ-Amyloid Fibrils. Science, 2005, 307, 262-265.	12.6	1,587
111	Parallel Î²-Sheets and Polar Zippers in Amyloid Fibrils Formed by Residues 10â^'39 of the Yeast Prion Protein Ure2p. Biochemistry, 2005, 44, 10669-10680.	2.5	134
112	AÎ²40-Lactam(D23/K28) Models a Conformation Highly Favorable for Nucleation of Amyloid. Biochemistry, 2005, 44, 6003-6014.	2.5	241
113	Molecular Dynamics Simulations of Alzheimer's Î²-Amyloid Protofilaments. Journal of Molecular Biology, 2005, 353, 804-821.	4.2	250
114	Expression and purification of a recombinant peptide from the Alzheimerâ€™s Î²-amyloid protein for solid-state NMR. Protein Expression and Purification, 2005, 42, 200-210.	1.3	46
115	Progress towards a molecular-level structural understanding of amyloid fibrils. Current Opinion in Structural Biology, 2004, 14, 96-103.	5.7	365
116	Sensitivity Enhancement in Two-Dimensional Solid-State NMR Spectroscopy by Transverse Mixing. ChemPhysChem, 2004, 5, 863-868.	2.1	18
117	Rotational resonance in uniformly 13C-labeled solids: effects on high-resolution magic-angle spinning NMR spectra and applications in structural studies of biomolecular systems. Journal of Magnetic Resonance, 2004, 168, 137-146.	2.1	18
118	Broadband rotational resonance in solid state NMR spectroscopy. Journal of Chemical Physics, 2004, 120, 8349-8352.	3.0	17
119	Solid-State NMR Yields Structural Constraints on the V3 Loop from HIV-1 Gp120 Bound to the 447-52D Antibody Fv Fragment. Journal of the American Chemical Society, 2004, 126, 4979-4990.	13.7	49
120	Absolute Structural Constraints on Amyloid Fibrils from Solid-State NMR Spectroscopy of Partially Oriented Samples. Journal of the American Chemical Society, 2004, 126, 4478-4479.	13.7	27
121	Increasing the Amphiphilicity of an Amyloidogenic Peptide Changes the Î²-Sheet Structure in the Fibrils from Antiparallel to Parallel. Biophysical Journal, 2004, 86, 428-434.	0.5	119
122	Insights into the Amyloid Folding Problem from Solid-State NMR. Biochemistry, 2003, 42, 3151-3159.	2.5	212
123	Solid-State NMR Spectroscopy Method for Determination of the Backbone Torsion Angle Ï^ in Peptides with Isolated Uniformly Labeled Residues. Journal of the American Chemical Society, 2003, 125, 11828-11829.	13.7	50
124	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
125	Recoupling of chemical shift anisotropies in solid-state NMR under high-speed magic-angle spinning and in uniformly 13C-labeled systems. Journal of Chemical Physics, 2003, 118, 8378-8389.	3.0	139
126	Site-Specific Identification of Non-Î²-Strand Conformations in Alzheimer's Î²-Amyloid Fibrils by Solid-State NMR. Biophysical Journal, 2003, 84, 3326-3335.	0.5	78

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127	NMR Studies of Chloroquineâ^'Ferriprotoporphyrin IX Complex. Journal of Physical Chemistry A, 2003, 107, 5821-5825.	2.5	69
128	Supramolecular Structural Constraints on Alzheimer's Î²-Amyloid Fibrils from Electron Microscopy and Solid-State Nuclear Magnetic Resonance. Biochemistry, 2002, 41, 15436-15450.	2.5	270
129	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
130	Supramolecular Structure in Full-Length Alzheimer's Î²-Amyloid Fibrils: Evidence for a Parallel Î²-Sheet Organization from Solid-State Nuclear Magnetic Resonance. Biophysical Journal, 2002, 83, 1205-1216.	0.5	309
131	Sensitivity Enhancement in Structural Measurements by Solid State NMR through Pulsed Spin Locking. Journal of Magnetic Resonance, 2002, 155, 293-299.	2.1	57
132	BIOMOLECULAR SOLID STATE NMR: Advances in Structural Methodology and Applications to Peptide and Protein Fibrils. Annual Review of Physical Chemistry, 2001, 52, 575-606.	10.8	115
133	Solid-state NMR data support a helix-loop-helix structural model for the N-terminal half of HIV-1 rev in fibrillar form. Journal of Molecular Biology, 2001, 313, 845-859.	4.2	47
134	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
135	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
136	Determination of Polypeptide Backbone Dihedral Angles in Solid State NMR by Double Quantum 13C Chemical Shift Anisotropy Measurements. Journal of Magnetic Resonance, 2001, 149, 131-138.	2.1	62
137	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
138	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
139	Probing hydrogen bonds in the antibody-bound HIV-1 gp120 V3 loop by solid state NMR REDOR measurements. Journal of Biomolecular NMR, 2000, 16, 313-327.	2.8	26
140	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
141	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
142	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
143	Stray-field NMR imaging and wavelength dependence of optically pumped nuclear spin polarization in InP. Physical Review B, 1999, 60, 8672-8679.	3.2	49
144	Solid-state NMR evidence for an antibody-dependent conformation of the V3 loop of HIV-1 gp120. Nature Structural Biology, 1999, 6, 141-145.	9.7	78

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145	Dual Processing of Two-Dimensional Exchange Data in Magic Angle Spinning NMR of Solids. Journal of Magnetic Resonance, 1999, 141, 141-147.	2.1	20
146	High-order multiple quantum excitation in 13C nuclear magnetic resonance spectroscopy of organic solids. Journal of Chemical Physics, 1999, 110, 2749-2752.	3.0	62
147	Optical pumping in indium phosphide: 31P NMR measurements and potential for signal enhancement in biological solid state NMR. Solid State Nuclear Magnetic Resonance, 1998, 11, 1-9.	2.3	67
148	Quantitative Conformational Measurements in Solid State NMR by Constant-Time Homonuclear Dipolar Recoupling. Journal of the American Chemical Society, 1998, 120, 4897-4898.	13.7	72
149	Biopolymer Conformational Distributions from Solid-State NMR:Â Î±-Helix and 310-Helix Contents of a Helical Peptide. Journal of the American Chemical Society, 1998, 120, 7039-7048.	13.7	94
150	Optical pumping of dipolar order in a coupled nuclear spin system. Molecular Physics, 1998, 95, 1169-1176.	1.7	14
151	Optical pumping of dipolar order in a coupled nuclear spin system. Molecular Physics, 1998, 95, 1169-1176.	1.7	5
152	Optical Pumping in Solid State Nuclear Magnetic Resonance. The Journal of Physical Chemistry, 1996, 100, 13240-13250.	2.9	79
153	Determination of Peptide Conformations by Two-Dimensional Magic Angle Spinning NMR Exchange Spectroscopy with Rotor Synchronization. Journal of the American Chemical Society, 1996, 118, 8487-8488.	13.7	121
154	Investigation of molecular structure in solids by twoâ€dimensional NMR exchange spectroscopy with magic angle spinning. Journal of Chemical Physics, 1996, 105, 7915-7930.	3.0	97
155	Prospects for resonance assignments in multidimensional solid-state NMR spectra of uniformly labeled proteins. Journal of Biomolecular NMR, 1996, 8, 239-251.	2.8	50
156	Symmetry principles in the design of pulse sequences for structural measurements in magic angle spinning nuclear magnetic resonance. Journal of Chemical Physics, 1993, 98, 932-943.	3.0	183
157	Nuclear magnetic resonance crystallography: molecular orientational ordering in three forms of solid methanol. Journal of the American Chemical Society, 1991, 113, 3592-3593.	13.7	48
158	Double-quantum filtering in magic-angle-spinning NMR spectroscopy: an approach to spectral simplification and molecular structure determination. Journal of the American Chemical Society, 1991, 113, 9444-9448.	13.7	121
159	Measurement of nuclear magnetic dipoleâ€"dipole couplings in magic angle spinning NMR. Chemical Physics Letters, 1990, 173, 461-465.	2.6	284
160	Zero field nuclear magnetic resonance in high field. Journal of Chemical Physics, 1990, 92, 5776-5793.	3.0	50
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