

Mei Hong

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202
papers

10,823
citations

61
h-index

93
g-index

209
ext. papers

12,155
ext. citations

8.4
avg, IF

6.83
L-index

#	Paper	IF	Citations
202	Structure of the amantadine binding site of influenza M2 proton channels in lipid bilayers. <i>Nature</i> , 2010 , 463, 689-92	50.4	519
201	Mechanisms of proton conduction and gating in influenza M2 proton channels from solid-state NMR. <i>Science</i> , 2010 , 330, 505-8	33.3	264
200	Structure and interactions of plant cell-wall polysaccharides by two- and three-dimensional magic-angle-spinning solid-state NMR. <i>Biochemistry</i> , 2011 , 50, 989-1000	3.2	247
199	De novo design of a transmembrane Zn ²⁺ -transporting four-helix bundle. <i>Science</i> , 2014 , 346, 1520-4	33.3	220
198	Membrane-dependent oligomeric structure and pore formation of a beta-hairpin antimicrobial peptide in lipid bilayers from solid-state NMR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 16242-7	11.5	196
197	Protonation, tautomerization, and rotameric structure of histidine: a comprehensive study by magic-angle-spinning solid-state NMR. <i>Journal of the American Chemical Society</i> , 2011 , 133, 1534-44	16.4	175
196	Sensitivity-enhanced solid-state NMR detection of expansinB target in plant cell walls. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 16444-9	11.5	171
195	Membrane protein structure and dynamics from NMR spectroscopy. <i>Annual Review of Physical Chemistry</i> , 2012 , 63, 1-24	15.7	165
194	Phosphate-mediated arginine insertion into lipid membranes and pore formation by a cationic membrane peptide from solid-state NMR. <i>Journal of the American Chemical Society</i> , 2007 , 129, 11438-46	16.4	158
193	Cellulose-Pectin Spatial Contacts Are Inherent to Never-Dried Arabidopsis Primary Cell Walls: Evidence from Solid-State Nuclear Magnetic Resonance. <i>Plant Physiology</i> , 2015 , 168, 871-84	6.6	147
192	Solid-state NMR investigations of peptide-lipid interaction and orientation of a beta-sheet antimicrobial peptide, protegrin. <i>Biochemistry</i> , 2002 , 41, 9852-62	3.2	147
191	Structure and drug binding of the SARS-CoV-2 envelope protein transmembrane domain in lipid bilayers. <i>Nature Structural and Molecular Biology</i> , 2020 , 27, 1202-1208	17.6	145
190	Membrane protein topology probed by (1)H spin diffusion from lipids using solid-state NMR spectroscopy. <i>Journal of the American Chemical Society</i> , 2002 , 124, 874-83	16.4	144
189	Determination of multiple ϕ -torsion angles in proteins by selective and extensive (13)C labeling and two-dimensional solid-state NMR. <i>Journal of Magnetic Resonance</i> , 1999 , 139, 389-401	3	144
188	Solid-state NMR investigation of the dynamics of the soluble and membrane-bound colicin Ia channel-forming domain. <i>Biochemistry</i> , 2001 , 40, 7662-74	3.2	139
187	Cellulose microfibril crystallinity is reduced by mutating C-terminal transmembrane region residues CESA1A903V and CESA3T942I of cellulose synthase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 4098-103	11.5	130
186	Structure of amantadine-bound M2 transmembrane peptide of influenza A in lipid bilayers from magic-angle-spinning solid-state NMR: the role of Ser31 in amantadine binding. <i>Journal of Molecular Biology</i> , 2009 , 385, 1127-41	6.5	128

185	Determining the orientation of uniaxially rotating membrane proteins using unoriented samples: a ² H, ¹³ C, AND ¹⁵ N solid-state NMR investigation of the dynamics and orientation of a transmembrane helical bundle. <i>Journal of the American Chemical Society</i> , 2007 , 129, 5719-29	16.4	126
184	NMR detection of pH-dependent histidine-water proton exchange reveals the conduction mechanism of a transmembrane proton channel. <i>Journal of the American Chemical Society</i> , 2012 , 134, 3703-13	16.4	125
183	Solid-state NMR investigations of cellulose structure and interactions with matrix polysaccharides in plant primary cell walls. <i>Journal of Experimental Botany</i> , 2016 , 67, 503-14	7	124
182	2D and 3D ¹⁵ N/ ¹³ C/ ¹³ C NMR Chemical Shift Correlation Spectroscopy of Solids: Assignment of MAS Spectra of Peptides. <i>Journal of the American Chemical Society</i> , 2000 , 122, 10979-10990	16.4	122
181	Resonance assignment of ¹³ C/ ¹⁵ N labeled solid proteins by two- and three-dimensional magic-angle-spinning NMR. <i>Journal of Biomolecular NMR</i> , 1999 , 15, 1-14	3	122
180	Solid-state NMR investigation of the depth of insertion of protegrin-1 in lipid bilayers using paramagnetic Mn ²⁺ . <i>Biophysical Journal</i> , 2003 , 85, 2363-73	2.9	119
179	Orientation and dynamics of an antimicrobial peptide in the lipid bilayer by solid-state NMR spectroscopy. <i>Biophysical Journal</i> , 2001 , 81, 2203-14	2.9	117
178	Roles of arginine and lysine residues in the translocation of a cell-penetrating peptide from (¹³ C), (³¹ P), and (¹⁹ F) solid-state NMR. <i>Biochemistry</i> , 2009 , 48, 4587-95	3.2	116
177	Coupling amplification in 2D MAS NMR and its application to torsion angle determination in peptides. <i>Journal of Magnetic Resonance</i> , 1997 , 129, 85-92	3	116
176	Pectin-cellulose interactions in the Arabidopsis primary cell wall from two-dimensional magic-angle-spinning solid-state nuclear magnetic resonance. <i>Biochemistry</i> , 2012 , 51, 9846-56	3.2	115
175	Resonance Assignments for Solid Peptides by Dipolar-Mediated ¹³ C/ ¹⁵ N Correlation Solid-State NMR. <i>Journal of the American Chemical Society</i> , 1998 , 120, 7113-7114	16.4	113
174	Molecular dynamics simulation directed rational design of inhibitors targeting drug-resistant mutants of influenza A virus M2. <i>Journal of the American Chemical Society</i> , 2011 , 133, 12834-41	16.4	109
173	Structure and function of the influenza A M2 proton channel. <i>Biochemistry</i> , 2009 , 48, 7356-64	3.2	102
172	Investigation of Molecular Motions by Lee-Goldburg Cross-Polarization NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 7355-7364	3.4	102
171	Structural basis for proton conduction and inhibition by the influenza M2 protein. <i>Protein Science</i> , 2012 , 21, 1620-33	6.3	101
170	Amantadine-induced conformational and dynamical changes of the influenza M2 transmembrane proton channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 1483-8	11.5	95
169	Icephobic Surfaces Induced by Interfacial Nonfrozen Water. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 4202-4214	9.5	94
168	Determination of peptide oligomerization in lipid bilayers using ¹⁹ F spin diffusion NMR. <i>Journal of the American Chemical Society</i> , 2005 , 127, 4477-83	16.4	91

167	Specific binding of adamantane drugs and direction of their polar amines in the pore of the influenza M2 transmembrane domain in lipid bilayers and dodecylphosphocholine micelles determined by NMR spectroscopy. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4274-84	16.4	88
166	Membrane-bound dynamic structure of an arginine-rich cell-penetrating peptide, the protein transduction domain of HIV TAT, from solid-state NMR. <i>Biochemistry</i> , 2010 , 49, 6009-20	3.2	81
165	Water-polysaccharide interactions in the primary cell wall of <i>Arabidopsis thaliana</i> from polarization transfer solid-state NMR. <i>Journal of the American Chemical Society</i> , 2014 , 136, 10399-409	16.4	80
164	Structure and dynamics of cationic membrane peptides and proteins: insights from solid-state NMR. <i>Protein Science</i> , 2011 , 20, 641-55	6.3	79
163	Immobilization and aggregation of the antimicrobial peptide protegrin-1 in lipid bilayers investigated by solid-state NMR. <i>Biochemistry</i> , 2003 , 42, 13725-34	3.2	78
162	The molecular structure of plant sporopollenin. <i>Nature Plants</i> , 2019 , 5, 41-46	11.5	78
161	Structure, topology, and dynamics of membrane peptides and proteins from solid-state NMR spectroscopy. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 10340-51	3.4	77
160	Discovery of spiro-piperidine inhibitors and their modulation of the dynamics of the M2 proton channel from influenza A virus. <i>Journal of the American Chemical Society</i> , 2009 , 131, 8066-76	16.4	76
159	Measurement of Carbon-Proton Dipolar Couplings in Liquid Crystals by Local Dipolar Field NMR Spectroscopy. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 18696-18701		75
158	Determination of the oligomeric number and intermolecular distances of membrane protein assemblies by anisotropic ¹ H-driven spin diffusion NMR spectroscopy. <i>Journal of the American Chemical Society</i> , 2006 , 128, 7242-51	16.4	75
157	Oligomeric structure, dynamics, and orientation of membrane proteins from solid-state NMR. <i>Structure</i> , 2006 , 14, 1731-40	5.2	73
156	Membrane-dependent effects of a cytoplasmic helix on the structure and drug binding of the influenza virus M2 protein. <i>Journal of the American Chemical Society</i> , 2011 , 133, 11572-9	16.4	72
155	Asymmetric insertion of membrane proteins in lipid bilayers by solid-state NMR paramagnetic relaxation enhancement: a cell-penetrating Peptide example. <i>Journal of the American Chemical Society</i> , 2008 , 130, 8856-64	16.4	72
154	Solid-state dipolar INADEQUATE NMR spectroscopy with a large double-quantum spectral width. <i>Journal of Magnetic Resonance</i> , 1999 , 136, 86-91	3	72
153	Zinc-binding structure of a catalytic amyloid from solid-state NMR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 6191-6196	11.5	71
152	Structure and Dynamics of Membrane Proteins from Solid-State NMR. <i>Annual Review of Biophysics</i> , 2018 , 47, 201-222	21.1	69
151	Cellulose Structural Polymorphism in Plant Primary Cell Walls Investigated by High-Field 2D Solid-State NMR Spectroscopy and Density Functional Theory Calculations. <i>Biomacromolecules</i> , 2016 , 17, 2210-22	6.9	68
150	Water-protein interactions of an arginine-rich membrane peptide in lipid bilayers investigated by solid-state nuclear magnetic resonance spectroscopy. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 4063-9	3.4	66

149	The membrane-bound structure and topology of a human α -defensin indicate a dimer pore mechanism for membrane disruption. <i>Biochemistry</i> , 2010 , 49, 9770-82	3.2	66
148	Solid-state NMR investigation of the selective disruption of lipid membranes by protegrin-1. <i>Biochemistry</i> , 2004 , 43, 13839-48	3.2	66
147	Conformational plasticity of the influenza A M2 transmembrane helix in lipid bilayers under varying pH, drug binding, and membrane thickness. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011 , 1808, 415-23	3.8	65
146	Conformational changes of an ion channel detected through water-protein interactions using solid-state NMR spectroscopy. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2378-84	16.4	64
145	Structure and mechanism of beta-hairpin antimicrobial peptides in lipid bilayers from solid-state NMR spectroscopy. <i>Molecular BioSystems</i> , 2009 , 5, 317-22		64
144	Solid-state NMR spectroscopy. <i>Nature Reviews Methods Primers</i> , 2021 , 1,		62
143	Water Distribution, Dynamics, and Interactions with Alzheimer's β -Amyloid Fibrils Investigated by Solid-State NMR. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6242-6252	16.4	61
142	Structural Polymorphism of Alzheimer's β -Amyloid Fibrils as Controlled by an E22 Switch: A Solid-State NMR Study. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9840-52	16.4	61
141	Multidimensional solid-state NMR studies of the structure and dynamics of pectic polysaccharides in uniformly ^{13}C -labeled Arabidopsis primary cell walls. <i>Magnetic Resonance in Chemistry</i> , 2012 , 50, 539-50 ²¹		60
140	Gradients in Wall Mechanics and Polysaccharides along Growing Inflorescence Stems. <i>Plant Physiology</i> , 2017 , 175, 1593-1607	6.6	57
139	Hydrogen-bonding partner of the proton-conducting histidine in the influenza M2 proton channel revealed from ^1H chemical shifts. <i>Journal of the American Chemical Society</i> , 2012 , 134, 14753-5	16.4	57
138	Structure and dynamics of Brachypodium primary cell wall polysaccharides from two-dimensional (^{13}C) solid-state nuclear magnetic resonance spectroscopy. <i>Biochemistry</i> , 2014 , 53, 2840-54	3.2	56
137	Drug-induced conformational and dynamical changes of the S31N mutant of the influenza M2 proton channel investigated by solid-state NMR. <i>Journal of the American Chemical Society</i> , 2013 , 135, 9885-97	16.4	56
136	Immobilization of the influenza A M2 transmembrane peptide in virus envelope-mimetic lipid membranes: a solid-state NMR investigation. <i>Biochemistry</i> , 2009 , 48, 6361-8	3.2	56
135	Solid-state NMR investigation of the selective perturbation of lipid bilayers by the cyclic antimicrobial peptide RTD-1. <i>Biochemistry</i> , 2004 , 43, 9800-12	3.2	56
134	Cholesterol-binding site of the influenza M2 protein in lipid bilayers from solid-state NMR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 12946-12951 ^{11.5}		55
133	Backbone and side chain assignment strategies for multiply labeled membrane peptides and proteins in the solid state. <i>Journal of Magnetic Resonance</i> , 2003 , 160, 1-12	3	55
132	Magic-angle-spinning NMR techniques for measuring long-range distances in biological macromolecules. <i>Accounts of Chemical Research</i> , 2013 , 46, 2154-63	24.3	54

131	Membrane-disruptive abilities of beta-hairpin antimicrobial peptides correlate with conformation and activity: a 31P and 1H NMR study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2005 , 1716, 11-8	3.8	54
130	Side-chain conformation of the M2 transmembrane peptide proton channel of influenza a virus from 19F solid-state NMR. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 10825-32	3.4	53
129	Effects of guanidinium-phosphate hydrogen bonding on the membrane-bound structure and activity of an arginine-rich membrane peptide from solid-state NMR spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 3202-5	16.4	53
128	Efficient DNP NMR of membrane proteins: sample preparation protocols, sensitivity, and radical location. <i>Journal of Biomolecular NMR</i> , 2016 , 64, 223-37	3	52
127	Acid activation mechanism of the influenza A M2 proton channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E6955-E6964	11.5	51
126	pH-dependent conformation, dynamics, and aromatic interaction of the gating tryptophan residue of the influenza M2 proton channel from solid-state NMR. <i>Biophysical Journal</i> , 2013 , 104, 1698-708	2.9	51
125	Measurement and Assignment of Long-Range CH Dipolar Couplings in Liquid Crystals by Two-Dimensional NMR Spectroscopy. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 14815-14822		51
124	Suppression of Epstein-Barr nuclear antigen 1 (EBNA1) by RNA interference inhibits proliferation of EBV-positive Burkitt's lymphoma cells. <i>Journal of Cancer Research and Clinical Oncology</i> , 2006 , 132, 1-8	4.9	50
123	Conformational analysis of the full-length M2 protein of the influenza A virus using solid-state NMR. <i>Protein Science</i> , 2013 , 22, 1623-38	6.3	49
122	Compensation for pulse imperfections in rotational-echo double-resonance NMR by composite pulses and EXORCYCLE. <i>Journal of Magnetic Resonance</i> , 2004 , 168, 358-65	3	49
121	Viral fusion protein transmembrane domain adopts β -strand structure to facilitate membrane topological changes for virus-cell fusion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 10926-31	11.5	48
120	Cationic membrane peptides: atomic-level insight of structure-activity relationships from solid-state NMR. <i>Amino Acids</i> , 2013 , 44, 821-33	3.5	48
119	Solid-State NMR Determination of ^{13}C Chemical Shift Anisotropies for the Identification of Protein Secondary Structure. <i>Journal of the American Chemical Society</i> , 2000 , 122, 3762-3770	16.4	47
118	Probing membrane protein structure using water polarization transfer solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2014 , 247, 118-127	3	46
117	NMR determination of protein partitioning into membrane domains with different curvatures and application to the influenza M2 peptide. <i>Biophysical Journal</i> , 2012 , 102, 787-94	2.9	46
116	Multidimensional solid-state NMR spectroscopy of plant cell walls. <i>Solid State Nuclear Magnetic Resonance</i> , 2016 , 78, 56-63	3.1	44
115	In vitro ON4R tau fibrils contain a monomorphic β -sheet core enclosed by dynamically heterogeneous fuzzy coat segments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 16357-16366	11.5	44
114	Solid-state NMR studies of the structure, dynamics, and assembly of beta-sheet membrane peptides and alpha-helical membrane proteins with antibiotic activities. <i>Accounts of Chemical Research</i> , 2006 , 39, 176-83	24.3	44

113	Orientation Determination of Membrane-Disruptive Proteins Using Powder Samples and Rotational Diffusion: A Simple Solid-State NMR Approach. <i>Chemical Physics Letters</i> , 2006 , 432, 296-300	2.5	44
112	Paramagnetic Cu(II) for probing membrane protein structure and function: inhibition mechanism of the influenza M2 proton channel. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8693-702	16.4	42
111	Solid-State NMR Investigation of the Conformation, Proton Conduction, and Hydration of the Influenza B Virus M2 Transmembrane Proton Channel. <i>Journal of the American Chemical Society</i> , 2016 , 138, 8143-55	16.4	41
110	The influenza m2 cytoplasmic tail changes the proton-exchange equilibria and the backbone conformation of the transmembrane histidine residue to facilitate proton conduction. <i>Journal of the American Chemical Society</i> , 2015 , 137, 6067-77	16.4	40
109	Effects of Pectin Molecular Weight Changes on the Structure, Dynamics, and Polysaccharide Interactions of Primary Cell Walls of Arabidopsis thaliana: Insights from Solid-State NMR. <i>Biomacromolecules</i> , 2017 , 18, 2937-2950	6.9	40
108	Structures of β -hairpin antimicrobial protegrin peptides in lipopolysaccharide membranes: mechanism of gram selectivity obtained from solid-state nuclear magnetic resonance. <i>Biochemistry</i> , 2011 , 50, 2072-83	3.2	40
107	Dynamic structure of disulfide-removed linear analogs of tachyplesin-I in the lipid bilayer from solid-state NMR. <i>Biochemistry</i> , 2008 , 47, 1105-16	3.2	38
106	Peptide-lipid interactions of the beta-hairpin antimicrobial peptide tachyplesin and its linear derivatives from solid-state NMR. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006 , 1758, 1285-91	3.8	38
105	Fast Magic-Angle-Spinning F Spin Exchange NMR for Determining Nanometer F-F Distances in Proteins and Pharmaceutical Compounds. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 2900-2911	3.4	37
104	Spectrally edited 2D ¹³ C- ¹³ C NMR spectra without diagonal ridge for characterizing ¹³ C-enriched low-temperature carbon materials. <i>Journal of Magnetic Resonance</i> , 2013 , 234, 112-24	3	37
103	Resonance assignment and three-dimensional structure determination of a human alpha-defensin, HNP-1, by solid-state NMR. <i>Journal of Molecular Biology</i> , 2010 , 397, 408-22	6.5	37
102	Long-range ¹ H- ¹⁹ F distance measurement in peptides by solid-state NMR. <i>Journal of the American Chemical Society</i> , 2004 , 126, 12754-5	16.4	37
101	Reversible sheet-turn conformational change of a cell-penetrating peptide in lipid bilayers studied by solid-state NMR. <i>Journal of Molecular Biology</i> , 2008 , 381, 1133-44	6.5	36
100	Conformation and lipid interaction of the fusion peptide of the paramyxovirus PIV5 in anionic and negative-curvature membranes from solid-state NMR. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2611-24	16.4	35
99	Membrane-dependent conformation, dynamics, and lipid interactions of the fusion peptide of the paramyxovirus PIV5 from solid-state NMR. <i>Journal of Molecular Biology</i> , 2013 , 425, 563-76	6.5	35
98	Orientation, dynamics, and lipid interaction of an antimicrobial arylamide investigated by ¹⁹ F and ³¹ P solid-state NMR spectroscopy. <i>Journal of the American Chemical Society</i> , 2010 , 132, 9197-205	16.4	35
97	Intermolecular packing and alignment in an ordered beta-hairpin antimicrobial peptide aggregate from 2D solid-state NMR. <i>Journal of the American Chemical Society</i> , 2005 , 127, 13919-27	16.4	35
96	Investigation of the dynamics of an elastin-mimetic polypeptide using solid-state NMR. <i>Magnetic Resonance in Chemistry</i> , 2004 , 42, 267-75	2.1	35

95	Identification and mobility of deuterated residues in peptides and proteins by β solid-state NMR. <i>Chemical Physics Letters</i> , 1999 , 300, 213-220	2.5	35
94	Structural factors affecting ^{13}C NMR chemical shifts of cellulose: a computational study. <i>Cellulose</i> , 2018 , 25, 23-36	5.5	35
93	Determining Cholesterol Binding to Membrane Proteins by Cholesterol C Labeling in Yeast and Dynamic Nuclear Polarization NMR. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15437-15449	16.4	34
92	Rapid measurement of long-range distances in proteins by multidimensional C-F REDOR NMR under fast magic-angle spinning. <i>Journal of Biomolecular NMR</i> , 2018 , 71, 31-43	3	34
91	Relaxation-compensated difference spin diffusion NMR for detecting ^{13}C - ^{13}C long-range correlations in proteins and polysaccharides. <i>Journal of Biomolecular NMR</i> , 2015 , 61, 97-107	3	33
90	Sodium butyrate alleviates LPS-induced acute lung injury in mice via inhibiting HMGB1 release. <i>International Immunopharmacology</i> , 2018 , 56, 242-248	5.8	33
89	Practical use of chemical shift databases for protein solid-state NMR: 2D chemical shift maps and amino-acid assignment with secondary-structure information. <i>Journal of Biomolecular NMR</i> , 2013 , 56, 155-67	3	33
88	Oligomeric Structure and Three-Dimensional Fold of the HIV gp41 Membrane-Proximal External Region and Transmembrane Domain in Phospholipid Bilayers. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8246-8259	16.4	32
87	Chemical ligation of the influenza M2 protein for solid-state NMR characterization of the cytoplasmic domain. <i>Protein Science</i> , 2015 , 24, 1087-99	6.3	32
86	Effects of amantadine on the dynamics of membrane-bound influenza A M2 transmembrane peptide studied by NMR relaxation. <i>Journal of Biomolecular NMR</i> , 2009 , 45, 185-96	3	32
85	The Target of β -Expansin EXPB1 in Maize Cell Walls from Binding and Solid-State NMR Studies. <i>Plant Physiology</i> , 2016 , 172, 2107-2119	6.6	32
84	High-resolution orientation and depth of insertion of the voltage-sensing S4 helix of a potassium channel in lipid bilayers. <i>Journal of Molecular Biology</i> , 2010 , 401, 642-52	6.5	31
83	Trehalose-protected lipid membranes for determining membrane protein structure and insertion. <i>Journal of Magnetic Resonance</i> , 2007 , 184, 222-7	3	31
82	Measurements of carbon to amide-proton distances by C-H dipolar recoupling with ^{15}N NMR detection. <i>Journal of the American Chemical Society</i> , 2003 , 125, 5648-9	16.4	31
81	Determination of Long-Range Distances by Fast Magic-Angle-Spinning Radiofrequency-Driven F-F Dipolar Recoupling NMR. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 9302-9313	3.4	31
80	The peptide hormone glucagon forms amyloid fibrils with two coexisting β -strand conformations. <i>Nature Structural and Molecular Biology</i> , 2019 , 26, 592-598	17.6	30
79	Direct Determination of Hydroxymethyl Conformations of Plant Cell Wall Cellulose Using H Polarization Transfer Solid-State NMR. <i>Biomacromolecules</i> , 2018 , 19, 1485-1497	6.9	30
78	Solid-state NMR and quantum chemical investigations of ^{13}C shielding tensor magnitudes and orientations in peptides: determining phi and psi torsion angles. <i>Journal of the American Chemical Society</i> , 2005 , 127, 6451-8	16.4	30

77	Conformational changes of colicin Ia channel-forming domain upon membrane binding: a solid-state NMR study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2002 , 1561, 159-70	3.8	30
76	Orientation of a beta-hairpin antimicrobial peptide in lipid bilayers from two-dimensional dipolar chemical-shift correlation NMR. <i>Biophysical Journal</i> , 2006 , 90, 3616-24	2.9	29
75	Distinguishing bicontinuous lipid cubic phases from isotropic membrane morphologies using (31)P solid-state NMR spectroscopy. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 4993-5001	3.4	28
74	Determination of calpha chemical shift tensor orientation in peptides by dipolar-modulated chemical shift recoupling NMR spectroscopy. <i>Journal of the American Chemical Society</i> , 2002 , 124, 2730-8	16.4	27
73	Efficient β -Sheet Identification in Proteins by Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2000 , 122, 11320-11327	16.4	27
72	Impact of acidic pH on plant cell wall polysaccharide structure and dynamics: insights into the mechanism of acid growth in plants from solid-state NMR. <i>Cellulose</i> , 2019 , 26, 291-304	5.5	27
71	A 2H solid-state NMR study of lipid clustering by cationic antimicrobial and cell-penetrating peptides in model bacterial membranes. <i>Biophysical Journal</i> , 2013 , 105, 2333-42	2.9	26
70	Conformational disorder of membrane peptides investigated from solid-state NMR line widths and line shapes. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 10758-67	3.4	26
69	Atomic structures of closed and open influenza B M2 proton channel reveal the conduction mechanism. <i>Nature Structural and Molecular Biology</i> , 2020 , 27, 160-167	17.6	25
68	2D 1H-31P solid-state NMR studies of the dependence of inter-bilayer water dynamics on lipid headgroup structure and membrane peptides. <i>Journal of Magnetic Resonance</i> , 2009 , 196, 39-47	3	25
67	Investigation of the curvature induction and membrane localization of the influenza virus M2 protein using static and off-magic-angle spinning solid-state nuclear magnetic resonance of oriented bicelles. <i>Biochemistry</i> , 2015 , 54, 2214-26	3.2	24
66	3D (13)C-(13)C-(13)C correlation NMR for de novo distance determination of solid proteins and application to a human alpha-defensin. <i>Journal of Magnetic Resonance</i> , 2010 , 202, 203-10	3	24
65	Large structure rearrangement of colicin Ia channel domain after membrane binding from 2D 13C spin diffusion NMR. <i>Journal of the American Chemical Society</i> , 2005 , 127, 6402-8	16.4	24
64	Sensitivity-enhanced static 15N NMR of solids by 1h indirect detection. <i>Journal of Magnetic Resonance</i> , 2001 , 150, 43-8	3	24
63	Structural Basis for Asymmetric Conductance of the Influenza M2 Proton Channel Investigated by Solid-State NMR Spectroscopy. <i>Journal of Molecular Biology</i> , 2017 , 429, 2192-2210	6.5	22
62	Transport-Relevant Protein Conformational Dynamics and Water Dynamics on Multiple Time Scales in an Archetypal Proton Channel: Insights from Solid-State NMR. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1514-1524	16.4	22
61	Spectral editing of two-dimensional magic-angle-spinning solid-state NMR spectra for protein resonance assignment and structure determination. <i>Journal of Biomolecular NMR</i> , 2012 , 54, 343-53	3	22
60	Arginine dynamics in a membrane-bound cationic beta-hairpin peptide from solid-state NMR. <i>ChemBioChem</i> , 2008 , 9, 1487-92	3.8	22

59	Solid-state NMR spin diffusion for measurement of membrane-bound peptide structure: gramicidin A. <i>Biochemistry</i> , 2004 , 43, 7899-906	3.2	22
58	Effects of arginine density on the membrane-bound structure of a cationic antimicrobial peptide from solid-state NMR. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009 , 1788, 514-21	3.8	21
57	High-sensitivity 2H NMR in solids by 1H detection. <i>Journal of the American Chemical Society</i> , 2001 , 123, 7168-9	16.4	21
56	Protonation equilibria and pore-opening structure of the dual-histidine influenza B virus M2 transmembrane proton channel from solid-state NMR. <i>Journal of Biological Chemistry</i> , 2017 , 292, 17876-17884 ²⁰	5.4	20
55	Accurate measurement of methyl 13C chemical shifts by solid-state NMR for the determination of protein side chain conformation: the influenza A M2 transmembrane peptide as an example. <i>Journal of the American Chemical Society</i> , 2009 , 131, 7806-16	16.4	19
54	High-Sensitivity Detection of Nanometer H-F Distances for Protein Structure Determination by H-Detected Fast MAS NMR. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 4387-4391	3.4	17
53	Cryoprotection of lipid membranes for high-resolution solid-state NMR studies of membrane peptides and proteins at low temperature. <i>Journal of Biomolecular NMR</i> , 2014 , 59, 263-77	3	17
52	A structural and mechanistic study of E1 clamp-mediated cysteine perfluoroarylation. <i>Scientific Reports</i> , 2017 , 7, 7954	4.9	17
51	X ¹ H rotational-echo double-resonance NMR for torsion angle determination of peptides. <i>Chemical Physics Letters</i> , 2003 , 380, 742-748	2.5	17
50	High-sensitivity protein solid-state NMR spectroscopy. <i>Current Opinion in Structural Biology</i> , 2019 , 58, 183-190	8.1	16
49	Two-dimensional F-C correlation NMR for F resonance assignment of fluorinated proteins. <i>Journal of Biomolecular NMR</i> , 2020 , 74, 193-204	3	15
48	Conformationally selective multidimensional chemical shift ranges in proteins from a PACSY database purged using intrinsic quality criteria. <i>Journal of Biomolecular NMR</i> , 2016 , 64, 115-30	3	15
47	Hydration and Dynamics of Full-Length Tau Amyloid Fibrils Investigated by Solid-State Nuclear Magnetic Resonance. <i>Biochemistry</i> , 2020 , 59, 2237-2248	3.2	14
46	Conformation and Trimer Association of the Transmembrane Domain of the Parainfluenza Virus Fusion Protein in Lipid Bilayers from Solid-State NMR: Insights into the Sequence Determinants of Trimer Structure and Fusion Activity. <i>Journal of Molecular Biology</i> , 2018 , 430, 695-709	6.5	14
45	Simultaneous extraction of multiple orientational constraints of membrane proteins by 13C-detected N-H dipolar couplings under magic angle spinning. <i>Journal of Magnetic Resonance</i> , 2008 , 191, 219-25	3	14
44	Aromatic spectral editing techniques for magic-angle-spinning solid-state NMR spectroscopy of uniformly (13)C-labeled proteins. <i>Solid State Nuclear Magnetic Resonance</i> , 2015 , 72, 118-26	3.1	13
43	Aggregation and dynamics of oligocholate transporters in phospholipid bilayers revealed by solid-state NMR spectroscopy. <i>Langmuir</i> , 2012 , 28, 17071-8	4	13
42	Bacterial Phosphate Granules Contain Cyclic Polyphosphates: Evidence from P Solid-State NMR. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18407-18421	16.4	13

41	Cholesterol Interaction with the Trimeric HIV Fusion Protein gp41 in Lipid Bilayers Investigated by Solid-State NMR Spectroscopy and Molecular Dynamics Simulations. <i>Journal of Molecular Biology</i> , 2020 , 432, 4705-4721	6.5	12
40	Solid-State Nuclear Magnetic Resonance Investigation of the Structural Topology and Lipid Interactions of a Viral Fusion Protein Chimera Containing the Fusion Peptide and Transmembrane Domain. <i>Biochemistry</i> , 2016 , 55, 6787-6800	3.2	12
39	Measurement of conformational constraints in an elastin-mimetic protein by residue-pair selected solid-state NMR. <i>Journal of Biomolecular NMR</i> , 2002 , 22, 175-9	3	12
38	Structure and dynamics of the drug-bound bacterial transporter EmrE in lipid bilayers. <i>Nature Communications</i> , 2021 , 12, 172	17.4	12
37	Elucidating Relayed Proton Transfer through a His-Trp-His Triad of a Transmembrane Proton Channel by Solid-State NMR. <i>Journal of Molecular Biology</i> , 2019 , 431, 2554-2566	6.5	11
36	Elucidating ligand-bound structures of membrane proteins using solid-state NMR spectroscopy. <i>Current Opinion in Structural Biology</i> , 2019 , 57, 103-109	8.1	11
35	H-C correlation solid-state NMR for investigating dynamics and water accessibilities of proteins and carbohydrates. <i>Journal of Biomolecular NMR</i> , 2017 , 68, 257-270	3	11
34	A 1D sensitivity-enhanced ¹ H spin diffusion experiment for determining membrane protein topology. <i>Solid State Nuclear Magnetic Resonance</i> , 2006 , 29, 163-9	3.1	11
33	Direct Observation of Cholesterol Dimers and Tetramers in Lipid Bilayers. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 1825-1837	3.4	11
32	The Transmembrane Conformation of the Influenza B Virus M2 Protein in Lipid Bilayers. <i>Scientific Reports</i> , 2019 , 9, 3725	4.9	10
31	(¹⁵ N and (¹ H Solid-State NMR Investigation of a Canonical Low-Barrier Hydrogen-Bond Compound: 1,8-Bis(dimethylamino)naphthalene. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 11581-9	3.4	10
30	Resonance assignment of the NMR spectra of disordered proteins using a multi-objective non-dominated sorting genetic algorithm. <i>Journal of Biomolecular NMR</i> , 2013 , 57, 281-96	3	10
29	C(alpha) chemical shift tensors in helical peptides by dipolar-modulated chemical shift recoupling NMR. <i>Journal of Biomolecular NMR</i> , 2002 , 24, 51-62	3	10
28	Fast MAS H-C correlation NMR for structural investigations of plant cell walls. <i>Journal of Biomolecular NMR</i> , 2019 , 73, 661-674	3	9
27	Efficient N-C Polarization Transfer by Third-Spin-Assisted Pulsed Cross-Polarization Magic-Angle-Spinning NMR for Protein Structure Determination. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 8367-8379	3.4	9
26	Determination of membrane Peptide orientation by ¹ H-detected ² H NMR spectroscopy. <i>Journal of Magnetic Resonance</i> , 2002 , 155, 244-50	3	9
25	Homonuclear decoupled ¹³ C chemical shift anisotropy in ¹³ C doubly labeled peptides by selective-pulse solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2003 , 160, 114-9	3	8
24	Pulsed Third-Spin-Assisted Recoupling NMR for Obtaining Long-Range C-C and N-C Distance Restraints. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 7138-7151	3.4	8

23	Fully hydrophobic HIV gp41 adopts a hemifusion-like conformation in phospholipid bilayers. <i>Journal of Biological Chemistry</i> , 2019 , 294, 14732-14744	5.4	7
22	The Influenza M2 Ectodomain Regulates the Conformational Equilibria of the Transmembrane Proton Channel: Insights from Solid-State Nuclear Magnetic Resonance. <i>Biochemistry</i> , 2016 , 55, 5387-97	3.2	7
21	From Angstroms to Nanometers: Measuring Interatomic Distances by Solid-State NMR. <i>Chemical Reviews</i> , 2021 ,	68.1	6
20	High-resolution solid-state NMR of anisotropically mobile molecules under very low-power (1)H decoupling and moderate magic-angle spinning. <i>Journal of Magnetic Resonance</i> , 2009 , 199, 225-32	3	5
19	Conformation, dynamics, and insertion of a noncysteine-containing protegrin-1 analogue in lipid membranes from solid-state NMR spectroscopy. <i>ChemBioChem</i> , 2007 , 8, 1877-84	3.8	5
18	Water orientation and dynamics in the closed and open influenza B virus M2 proton channels. <i>Communications Biology</i> , 2021 , 4, 338	6.7	5
17	Xylan Structure and Dynamics in Native Grass Cell Walls Investigated by Solid-State NMR Spectroscopy. <i>ACS Omega</i> , 2021 , 6, 15460-15471	3.9	5
16	Torsion Angle Determination by Solid-State NMR 2008 , 727-733		4
15	Inclusion of the C-Terminal Domain in the β -Sheet Core of Heparin-Fibrillized Three-Repeat Tau Protein Revealed by Solid-State Nuclear Magnetic Resonance Spectroscopy. <i>Journal of the American Chemical Society</i> , 2021 , 143, 7839-7851	16.4	4
14	Interplay between membrane curvature and protein conformational equilibrium investigated by solid-state NMR. <i>Journal of Structural Biology</i> , 2019 , 206, 20-28	3.4	4
13	Intramolecular 1H-13C distance measurement in uniformly 13C, 15N labeled peptides by solid-state NMR. <i>Solid State Nuclear Magnetic Resonance</i> , 2012 , 45-46, 51-8	3.1	3
12	Binding Sites of a Positron Emission Tomography Imaging Agent in Alzheimer's β -Amyloid Fibrils Studied Using F Solid-State NMR. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	3
11	Structure and Drug Binding of the SARS-CoV-2 Envelope Protein in Phospholipid Bilayers 2020 ,		3
10	CHAPTER 13:Structure and Dynamics of Polysaccharides in Plant Cell Walls from Solid-State NMR. <i>New Developments in NMR</i> ,290-304	0.9	3
9	Effects of Guanidinium Phosphate Hydrogen Bonding on the Membrane-Bound Structure and Activity of an Arginine-Rich Membrane Peptide from Solid-State NMR Spectroscopy. <i>Angewandte Chemie</i> , 2008 , 120, 3246-3249	3.6	1
8	Cholesterol-Mediated Clustering of the HIV Fusion Protein gp41 in Lipid Bilayers. <i>Journal of Molecular Biology</i> , 2021 , 434, 167345	6.5	1
7	Structurally Based Design of Glucagon Mutants That Inhibit Fibril Formation. <i>Biochemistry</i> , 2021 , 60, 2033-2043		1
6	Interactions of HIV gp41's membrane-proximal external region and transmembrane domain with phospholipid membranes from P NMR. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021 , 1863, 183723	3.8	1

5	High-pH structure of EmrE reveals the mechanism of proton-coupled substrate transport.. <i>Nature Communications</i> , 2022 , 13, 991	17.4	1
4	Clustering of tetrameric influenza M2 peptides in lipid bilayers investigated by F solid-state NMR.. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2022 , 183909	3.8	1
3	Age-dependent aggregation of β -synuclein in the nervous system of gut-brain axis is associated with caspase-1 activation.. <i>Metabolic Brain Disease</i> , 2022 , 1	3.9	0
2	Comparative analysis of C chemical shifts of β -sheet amyloid proteins and outer membrane proteins. <i>Journal of Biomolecular NMR</i> , 2021 , 75, 151-166	3	
1	Off-resonance C-H REDOR NMR for site-resolved studies of molecular motion. <i>Journal of Biomolecular NMR</i> , 2021 , 75, 335-345	3	