Mei Hong

List of Publications by Year in Descending Order

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	Age-dependent aggregation of -synuclein in the nervous system of gut-brain axis is associated with caspase-1 activation.. *Metabolic Brain Disease*, **2022**, 1	3.9	0
201	Binding Sites of a Positron Emission Tomography Imaging Agent in Alzheimer's -Amyloid Fibrils Studied Using F Solid-State NMR.. *Journal of the American Chemical Society*, **2022**,	16.4	3
200	High-pH structure of EmrE reveals the mechanism of proton-coupled substrate transport.. *Nature Communications*, **2022**, 13, 991	17.4	1
199	Clustering of tetrameric influenza M2 peptides in lipid bilayers investigated by F solid-state NMR.. *Biochimica Et Biophysica Acta - Biomembranes*, **2022**, 183909	3.8	1
198	Cholesterol-Mediated Clustering of the HIV Fusion Protein gp41 in Lipid Bilayers. *Journal of Molecular Biology*, **2021**, 434, 167345	6.5	1
197	From Angstroms to Nanometers: Measuring Interatomic Distances by Solid-State NMR. *Chemical Reviews*, **2021**,	68.1	6
196	Water orientation and dynamics in the closed and open influenza B virus M2 proton channels. *Communications Biology*, **2021**, 4, 338	6.7	5
195	Comparative analysis of C chemical shifts of -sheet amyloid proteins and outer membrane proteins. *Journal of Biomolecular NMR*, **2021**, 75, 151-166	3	
194	Inclusion of the C-Terminal Domain in the -Sheet Core of Heparin-Fibrillized Three-Repeat Tau Protein Revealed by Solid-State Nuclear Magnetic Resonance Spectroscopy. *Journal of the American Chemical Society*, **2021**, 143, 7839-7851	16.4	4
193	Structurally Based Design of Glucagon Mutants That Inhibit Fibril Formation. *Biochemistry*, **2021**, 60, 2033-2043	3.2	1
192	Xylan Structure and Dynamics in Native Grass Cell Walls Investigated by Solid-State NMR Spectroscopy. *ACS Omega*, **2021**, 6, 15460-15471	3.9	5
191	Solid-state NMR spectroscopy. *Nature Reviews Methods Primers*, **2021**, 1,		62
190	Direct Observation of Cholesterol Dimers and Tetramers in Lipid Bilayers. *Journal of Physical Chemistry B*, **2021**, 125, 1825-1837	3.4	11
189	Off-resonance C-H REDOR NMR for site-resolved studies of molecular motion. *Journal of Biomolecular NMR*, **2021**, 75, 335-345	3	
188	Interactions of HIV gp41's membrane-proximal external region and transmembrane domain with phospholipid membranes from P NMR. *Biochimica Et Biophysica Acta - Biomembranes*, **2021**, 1863, 183723	3.8	1
187	Structure and dynamics of the drug-bound bacterial transporter EmrE in lipid bilayers. *Nature Communications*, **2021**, 12, 172	17.4	12
186	Hydration and Dynamics of Full-Length Tau Amyloid Fibrils Investigated by Solid-State Nuclear Magnetic Resonance. *Biochemistry*, **2020**, 59, 2237-2248	3.2	14

185	Cholesterol Interaction with the Trimeric HIV Fusion Protein gp41 in Lipid Bilayers Investigated by Solid-State NMR Spectroscopy and Molecular Dynamics Simulations. *Journal of Molecular Biology*, **2020**, 432, 4705-4721	6.5	12
184	Two-dimensional F-C correlation NMR for F resonance assignment of fluorinated proteins. *Journal of Biomolecular NMR*, **2020**, 74, 193-204	3	15
183	Atomic structures of closed and open influenza B M2 proton channel reveal the conduction mechanism. *Nature Structural and Molecular Biology*, **2020**, 27, 160-167	17.6	25
182	Structure and Drug Binding of the SARS-CoV-2 Envelope Protein in Phospholipid Bilayers **2020**,		3
181	Bacterial Phosphate Granules Contain Cyclic Polyphosphates: Evidence from P Solid-State NMR. *Journal of the American Chemical Society*, **2020**, 142, 18407-18421	16.4	13
180	Structure and drug binding of the SARS-CoV-2 envelope protein transmembrane domain in lipid bilayers. *Nature Structural and Molecular Biology*, **2020**, 27, 1202-1208	17.6	145
179	Pulsed Third-Spin-Assisted Recoupling NMR for Obtaining Long-Range C-C and N-C Distance Restraints. *Journal of Physical Chemistry B*, **2020**, 124, 7138-7151	3.4	8
178	Fast MAS H-C correlation NMR for structural investigations of plant cell walls. *Journal of Biomolecular NMR*, **2019**, 73, 661-674	3	9
177	Fully hydrophobic HIV gp41 adopts a hemifusion-like conformation in phospholipid bilayers. *Journal of Biological Chemistry*, **2019**, 294, 14732-14744	5.4	7
176	The peptide hormone glucagon forms amyloid fibrils with two coexisting β-strand conformations. *Nature Structural and Molecular Biology*, **2019**, 26, 592-598	17.6	30
175	Elucidating Relayed Proton Transfer through a His-Trp-His Triad of a Transmembrane Proton Channel by Solid-State NMR. *Journal of Molecular Biology*, **2019**, 431, 2554-2566	6.5	11
174	High-Sensitivity Detection of Nanometer H-F Distances for Protein Structure Determination by H-Detected Fast MAS NMR. *Journal of Physical Chemistry B*, **2019**, 123, 4387-4391	3.4	17
173	High-sensitivity protein solid-state NMR spectroscopy. *Current Opinion in Structural Biology*, **2019**, 58, 183-190	8.1	16
172	Elucidating ligand-bound structures of membrane proteins using solid-state NMR spectroscopy. *Current Opinion in Structural Biology*, **2019**, 57, 103-109	8.1	11
171	The Transmembrane Conformation of the Influenza B Virus M2 Protein in Lipid Bilayers. *Scientific Reports*, **2019**, 9, 3725	4.9	10
170	In vitro 0N4R tau fibrils contain a monomorphic β-sheet core enclosed by dynamically heterogeneous fuzzy coat segments. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 16357-16366	11.5	44
169	The molecular structure of plant sporopollenin. *Nature Plants*, **2019**, 5, 41-46	11.5	78
168	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. *Cellulose*, **2019**, 26, 291-304	5.5	27

167	Interplay between membrane curvature and protein conformational equilibrium investigated by solid-state NMR. *Journal of Structural Biology*, **2019**, 206, 20-28	3.4	4
166	Fast Magic-Angle-Spinning F Spin Exchange NMR for Determining Nanometer F-F Distances in Proteins and Pharmaceutical Compounds. *Journal of Physical Chemistry B*, **2018**, 122, 2900-2911	3.4	37
165	Structure and Dynamics of Membrane Proteins from Solid-State NMR. *Annual Review of Biophysics*, **2018**, 47, 201-222	21.1	69
164	Sodium butyrate alleviates LPS-induced acute lung injury in mice via inhibiting HMGB1 release. *International Immunopharmacology*, **2018**, 56, 242-248	5.8	33
163	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. *Journal of Molecular Biology*, **2018**, 430, 695-709	6.5	14
162	Transport-Relevant Protein Conformational Dynamics and Water Dynamics on Multiple Time Scales in an Archetypal Proton Channel: Insights from Solid-State NMR. *Journal of the American Chemical Society*, **2018**, 140, 1514-1524	16.4	22
161	Direct Determination of Hydroxymethyl Conformations of Plant Cell Wall Cellulose Using H Polarization Transfer Solid-State NMR. *Biomacromolecules*, **2018**, 19, 1485-1497	6.9	30
160	Efficient N-C Polarization Transfer by Third-Spin-Assisted Pulsed Cross-Polarization Magic-Angle-Spinning NMR for Protein Structure Determination. *Journal of Physical Chemistry B*, **2018**, 122, 8367-8379	3.4	9
159	Oligomeric Structure and Three-Dimensional Fold of the HIV gp41 Membrane-Proximal External Region and Transmembrane Domain in Phospholipid Bilayers. *Journal of the American Chemical Society*, **2018**, 140, 8246-8259	16.4	32
158	Structural factors affecting 13C NMR chemical shifts of cellulose: a computational study. *Cellulose*, **2018**, 25, 23-36	5.5	35
157	Determining Cholesterol Binding to Membrane Proteins by Cholesterol C Labeling in Yeast and Dynamic Nuclear Polarization NMR. *Journal of the American Chemical Society*, **2018**, 140, 15437-15449	16.4	34
156	Determination of Long-Range Distances by Fast Magic-Angle-Spinning Radiofrequency-Driven F-F Dipolar Recoupling NMR. *Journal of Physical Chemistry B*, **2018**, 122, 9302-9313	3.4	31
155	Rapid measurement of long-range distances in proteins by multidimensional C-F REDOR NMR under fast magic-angle spinning. *Journal of Biomolecular NMR*, **2018**, 71, 31-43	3	34
154	Water Distribution, Dynamics, and Interactions with Alzheimer's Aβ Amyloid Fibrils Investigated by Solid-State NMR. *Journal of the American Chemical Society*, **2017**, 139, 6242-6252	16.4	61
153	Structural Basis for Asymmetric Conductance of the Influenza M2 Proton Channel Investigated by Solid-State NMR Spectroscopy. *Journal of Molecular Biology*, **2017**, 429, 2192-2210	6.5	22
152	Zinc-binding structure of a catalytic amyloid from solid-state NMR. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 6191-6196	11.5	71
151	Icephobic Surfaces Induced by Interfacial Nonfrozen Water. *ACS Applied Materials & Interfaces*, **2017**, 9, 4202-4214	9.5	94
150	Protonation equilibria and pore-opening structure of the dual-histidine influenza B virus M2 transmembrane proton channel from solid-state NMR. *Journal of Biological Chemistry*, **2017**, 292, 17876-17884	5.4	20

149	Gradients in Wall Mechanics and Polysaccharides along Growing Inflorescence Stems. *Plant Physiology*, **2017**, 175, 1593-1607	6.6	57
148	A structural and mechanistic study of -clamp-mediated cysteine perfluoroarylation. *Scientific Reports*, **2017**, 7, 7954	4.9	17
147	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. *Biomacromolecules*, **2017**, 18, 2937-2950	6.9	40
146	Cholesterol-binding site of the influenza M2 protein in lipid bilayers from solid-state NMR. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 12946-12951	11.5	55
145	H-C correlation solid-state NMR for investigating dynamics and water accessibilities of proteins and carbohydrates. *Journal of Biomolecular NMR*, **2017**, 68, 257-270	3	11
144	Solid-state NMR investigations of cellulose structure and interactions with matrix polysaccharides in plant primary cell walls. *Journal of Experimental Botany*, **2016**, 67, 503-14	7	124
143	The Influenza M2 Ectodomain Regulates the Conformational Equilibria of the Transmembrane Proton Channel: Insights from Solid-State Nuclear Magnetic Resonance. *Biochemistry*, **2016**, 55, 5387-97	3.2	7
142	Multidimensional solid-state NMR spectroscopy of plant cell walls. *Solid State Nuclear Magnetic Resonance*, **2016**, 78, 56-63	3.1	44
141	Structural Polymorphism of Alzheimer's -Amyloid Fibrils as Controlled by an E22 Switch: A Solid-State NMR Study. *Journal of the American Chemical Society*, **2016**, 138, 9840-52	16.4	61
140	Acid activation mechanism of the influenza A M2 proton channel. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E6955-E6964	11.5	51
139	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. *Biochemistry*, **2016**, 55, 6787-6800	3.2	12
138	Conformationally selective multidimensional chemical shift ranges in proteins from a PACSY database purged using intrinsic quality criteria. *Journal of Biomolecular NMR*, **2016**, 64, 115-30	3	15
137	Solid-State NMR Investigation of the Conformation, Proton Conduction, and Hydration of the Influenza B Virus M2 Transmembrane Proton Channel. *Journal of the American Chemical Society*, **2016**, 138, 8143-55	16.4	41
136	Efficient DNP NMR of membrane proteins: sample preparation protocols, sensitivity, and radical location. *Journal of Biomolecular NMR*, **2016**, 64, 223-37	3	52
135	The Target of -Expansin EXPB1 in Maize Cell Walls from Binding and Solid-State NMR Studies. *Plant Physiology*, **2016**, 172, 2107-2119	6.6	32
134	Cellulose Structural Polymorphism in Plant Primary Cell Walls Investigated by High-Field 2D Solid-State NMR Spectroscopy and Density Functional Theory Calculations. *Biomacromolecules*, **2016**, 17, 2210-22	6.9	68
133	Relaxation-compensated difference spin diffusion NMR for detecting 13C-13C long-range correlations in proteins and polysaccharides. *Journal of Biomolecular NMR*, **2015**, 61, 97-107	3	33
132	Cellulose-Pectin Spatial Contacts Are Inherent to Never-Dried Arabidopsis Primary Cell Walls: Evidence from Solid-State Nuclear Magnetic Resonance. *Plant Physiology*, **2015**, 168, 871-84	6.6	147

131	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. *Biochemistry*, **2015**, 54, 2214-26	3.2	24
130	The influenza m2 cytoplasmic tail changes the proton-exchange equilibria and the backbone conformation of the transmembrane histidine residue to facilitate proton conduction. *Journal of the American Chemical Society*, **2015**, 137, 6067-77	16.4	40
129	Distinguishing bicontinuous lipid cubic phases from isotropic membrane morphologies using (31)P solid-state NMR spectroscopy. *Journal of Physical Chemistry B*, **2015**, 119, 4993-5001	3.4	28
128	Aromatic spectral editing techniques for magic-angle-spinning solid-state NMR spectroscopy of uniformly (13)C-labeled proteins. *Solid State Nuclear Magnetic Resonance*, **2015**, 72, 118-26	3.1	13
127	Viral fusion protein transmembrane domain adopts β-strand structure to facilitate membrane topological changes for virus-cell fusion. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 10926-31	11.5	48
126	(15)N and (1)H Solid-State NMR Investigation of a Canonical Low-Barrier Hydrogen-Bond Compound: 1,8-Bis(dimethylamino)naphthalene. *Journal of Physical Chemistry B*, **2015**, 119, 11581-9	3.4	10
125	Chemical ligation of the influenza M2 protein for solid-state NMR characterization of the cytoplasmic domain. *Protein Science*, **2015**, 24, 1087-99	6.3	32
124	Conformation and lipid interaction of the fusion peptide of the paramyxovirus PIV5 in anionic and negative-curvature membranes from solid-state NMR. *Journal of the American Chemical Society*, **2014**, 136, 2611-24	16.4	35
123	Cryoprotection of lipid membranes for high-resolution solid-state NMR studies of membrane peptides and proteins at low temperature. *Journal of Biomolecular NMR*, **2014**, 59, 263-77	3	17
122	Water-polysaccharide interactions in the primary cell wall of Arabidopsis thaliana from polarization transfer solid-state NMR. *Journal of the American Chemical Society*, **2014**, 136, 10399-409	16.4	80
121	Structure and dynamics of Brachypodium primary cell wall polysaccharides from two-dimensional (13)C solid-state nuclear magnetic resonance spectroscopy. *Biochemistry*, **2014**, 53, 2840-54	3.2	56
120	De novo design of a transmembrane Zn2+-transporting four-helix bundle. *Science*, **2014**, 346, 1520-4	33.3	220
119	Probing membrane protein structure using water polarization transfer solid-state NMR. *Journal of Magnetic Resonance*, **2014**, 247, 118-127	3	46
118	Practical use of chemical shift databases for protein solid-state NMR: 2D chemical shift maps and amino-acid assignment with secondary-structure information. *Journal of Biomolecular NMR*, **2013**, 56, 155-67	3	33
117	Cationic membrane peptides: atomic-level insight of structure-activity relationships from solid-state NMR. *Amino Acids*, **2013**, 44, 821-33	3.5	48
116	pH-dependent conformation, dynamics, and aromatic interaction of the gating tryptophan residue of the influenza M2 proton channel from solid-state NMR. *Biophysical Journal*, **2013**, 104, 1698-708	2.9	51
115	Sensitivity-enhanced solid-state NMR detection of expansin's target in plant cell walls. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 16444-9	11.5	171
114	A 2H solid-state NMR study of lipid clustering by cationic antimicrobial and cell-penetrating peptides in model bacterial membranes. *Biophysical Journal*, **2013**, 105, 2333-42	2.9	26

113	Resonance assignment of the NMR spectra of disordered proteins using a multi-objective non-dominated sorting genetic algorithm. *Journal of Biomolecular NMR*, **2013**, 57, 281-96	3	10
112	Conformational analysis of the full-length M2 protein of the influenza A virus using solid-state NMR. *Protein Science*, **2013**, 22, 1623-38	6.3	49
111	Magic-angle-spinning NMR techniques for measuring long-range distances in biological macromolecules. *Accounts of Chemical Research*, **2013**, 46, 2154-63	24.3	54
110	Spectrally edited 2D 13C-13C NMR spectra without diagonal ridge for characterizing 13C-enriched low-temperature carbon materials. *Journal of Magnetic Resonance*, **2013**, 234, 112-24	3	37
109	Membrane-dependent conformation, dynamics, and lipid interactions of the fusion peptide of the paramyxovirus PIV5 from solid-state NMR. *Journal of Molecular Biology*, **2013**, 425, 563-76	6.5	35
108	Drug-induced conformational and dynamical changes of the S31N mutant of the influenza M2 proton channel investigated by solid-state NMR. *Journal of the American Chemical Society*, **2013**, 135, 9885-97	16.4	56
107	Structural basis for proton conduction and inhibition by the influenza M2 protein. *Protein Science*, **2012**, 21, 1620-33	6.3	101
106	Spectral editing of two-dimensional magic-angle-spinning solid-state NMR spectra for protein resonance assignment and structure determination. *Journal of Biomolecular NMR*, **2012**, 54, 343-53	3	22
105	Pectin-cellulose interactions in the Arabidopsis primary cell wall from two-dimensional magic-angle-spinning solid-state nuclear magnetic resonance. *Biochemistry*, **2012**, 51, 9846-56	3.2	115
104	Aggregation and dynamics of oligocholate transporters in phospholipid bilayers revealed by solid-state NMR spectroscopy. *Langmuir*, **2012**, 28, 17071-8	4	13
103	Membrane protein structure and dynamics from NMR spectroscopy. *Annual Review of Physical Chemistry*, **2012**, 63, 1-24	15.7	165
102	NMR determination of protein partitioning into membrane domains with different curvatures and application to the influenza M2 peptide. *Biophysical Journal*, **2012**, 102, 787-94	2.9	46
101	Intramolecular 1H-13C distance measurement in uniformly 13C, 15N labeled peptides by solid-state NMR. *Solid State Nuclear Magnetic Resonance*, **2012**, 45-46, 51-8	3.1	3
100	Hydrogen-bonding partner of the proton-conducting histidine in the influenza M2 proton channel revealed from 1H chemical shifts. *Journal of the American Chemical Society*, **2012**, 134, 14753-5	16.4	57
99	NMR detection of pH-dependent histidine-water proton exchange reveals the conduction mechanism of a transmembrane proton channel. *Journal of the American Chemical Society*, **2012**, 134, 3703-13	16.4	125
98	Paramagnetic Cu(II) for probing membrane protein structure and function: inhibition mechanism of the influenza M2 proton channel. *Journal of the American Chemical Society*, **2012**, 134, 8693-702	16.4	42
97	Multidimensional solid-state NMR studies of the structure and dynamics of pectic polysaccharides in uniformly 13C-labeled Arabidopsis primary cell walls. *Magnetic Resonance in Chemistry*, **2012**, 50, 539-50	2.1	60
96	Cellulose microfibril crystallinity is reduced by mutating C-terminal transmembrane region residues CESA1A903V and CESA3T942I of cellulose synthase. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 4098-103	11.5	130

95	Molecular dynamics simulation directed rational design of inhibitors targeting drug-resistant mutants of influenza A virus M2. *Journal of the American Chemical Society*, **2011**, 133, 12834-41	16.4	109
94	Structures of β-hairpin antimicrobial protegrin peptides in lipopolysaccharide membranes: mechanism of gram selectivity obtained from solid-state nuclear magnetic resonance. *Biochemistry*, **2011**, 50, 2072-83	3.2	40
93	Conformational plasticity of the influenza A M2 transmembrane helix in lipid bilayers under varying pH, drug binding, and membrane thickness. *Biochimica Et Biophysica Acta - Biomembranes*, **2011**, 1808, 415-23	3.8	65
92	Protonation, tautomerization, and rotameric structure of histidine: a comprehensive study by magic-angle-spinning solid-state NMR. *Journal of the American Chemical Society*, **2011**, 133, 1534-44	16.4	175
91	Structure and interactions of plant cell-wall polysaccharides by two- and three-dimensional magic-angle-spinning solid-state NMR. *Biochemistry*, **2011**, 50, 989-1000	3.2	247
90	Structure and dynamics of cationic membrane peptides and proteins: insights from solid-state NMR. *Protein Science*, **2011**, 20, 641-55	6.3	79
89	Membrane-dependent effects of a cytoplasmic helix on the structure and drug binding of the influenza virus M2 protein. *Journal of the American Chemical Society*, **2011**, 133, 11572-9	16.4	72
88	Conformational disorder of membrane peptides investigated from solid-state NMR line widths and line shapes. *Journal of Physical Chemistry B*, **2011**, 115, 10758-67	3.4	26
87	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. *Journal of the American Chemical Society*, **2011**, 133, 4274-84	16.4	88
86	Structure of the amantadine binding site of influenza M2 proton channels in lipid bilayers. *Nature*, **2010**, 463, 689-92	50.4	519
85	Mechanisms of proton conduction and gating in influenza M2 proton channels from solid-state NMR. *Science*, **2010**, 330, 505-8	33.3	264
84	Orientation, dynamics, and lipid interaction of an antimicrobial arylamide investigated by 19F and 31P solid-state NMR spectroscopy. *Journal of the American Chemical Society*, **2010**, 132, 9197-205	16.4	35
83	Membrane-bound dynamic structure of an arginine-rich cell-penetrating peptide, the protein transduction domain of HIV TAT, from solid-state NMR. *Biochemistry*, **2010**, 49, 6009-20	3.2	81
82	Water-protein interactions of an arginine-rich membrane peptide in lipid bilayers investigated by solid-state nuclear magnetic resonance spectroscopy. *Journal of Physical Chemistry B*, **2010**, 114, 4063-9	3.4	66
81	Resonance assignment and three-dimensional structure determination of a human alpha-defensin, HNP-1, by solid-state NMR. *Journal of Molecular Biology*, **2010**, 397, 408-22	6.5	37
80	High-resolution orientation and depth of insertion of the voltage-sensing S4 helix of a potassium channel in lipid bilayers. *Journal of Molecular Biology*, **2010**, 401, 642-52	6.5	31
79	The membrane-bound structure and topology of a human β-defensin indicate a dimer pore mechanism for membrane disruption. *Biochemistry*, **2010**, 49, 9770-82	3.2	66
78	Conformational changes of an ion channel detected through water-protein interactions using solid-state NMR spectroscopy. *Journal of the American Chemical Society*, **2010**, 132, 2378-84	16.4	64

77	3D (13)C-(13)C-(13)C correlation NMR for de novo distance determination of solid proteins and application to a human alpha-defensin. *Journal of Magnetic Resonance*, **2010**, 202, 203-10	3	24
76	2D 1H-31P solid-state NMR studies of the dependence of inter-bilayer water dynamics on lipid headgroup structure and membrane peptides. *Journal of Magnetic Resonance*, **2009**, 196, 39-47	3	25
75	Effects of amantadine on the dynamics of membrane-bound influenza A M2 transmembrane peptide studied by NMR relaxation. *Journal of Biomolecular NMR*, **2009**, 45, 185-96	3	32
74	High-resolution solid-state NMR of anisotropically mobile molecules under very low-power (1)H decoupling and moderate magic-angle spinning. *Journal of Magnetic Resonance*, **2009**, 199, 225-32	3	5
73	Structure and function of the influenza A M2 proton channel. *Biochemistry*, **2009**, 48, 7356-64	3.2	102
72	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. *Journal of the American Chemical Society*, **2009**, 131, 7806-16	16.4	19
71	Immobilization of the influenza A M2 transmembrane peptide in virus envelope-mimetic lipid membranes: a solid-state NMR investigation. *Biochemistry*, **2009**, 48, 6361-8	3.2	56
70	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. *Biochemistry*, **2009**, 48, 4587-95	3.2	116
69	Effects of arginine density on the membrane-bound structure of a cationic antimicrobial peptide from solid-state NMR. *Biochimica Et Biophysica Acta - Biomembranes*, **2009**, 1788, 514-21	3.8	21
68	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. *Journal of Molecular Biology*, **2009**, 385, 1127-41	6.5	128
67	Structure and mechanism of beta-hairpin antimicrobial peptides in lipid bilayers from solid-state NMR spectroscopy. *Molecular BioSystems*, **2009**, 5, 317-22		64
66	Discovery of spiro-piperidine inhibitors and their modulation of the dynamics of the M2 proton channel from influenza A virus. *Journal of the American Chemical Society*, **2009**, 131, 8066-76	16.4	76
65	Asymmetric insertion of membrane proteins in lipid bilayers by solid-state NMR paramagnetic relaxation enhancement: a cell-penetrating Peptide example. *Journal of the American Chemical Society*, **2008**, 130, 8856-64	16.4	72
64	Dynamic structure of disulfide-removed linear analogs of tachyplesin-I in the lipid bilayer from solid-state NMR. *Biochemistry*, **2008**, 47, 1105-16	3.2	38
63	Reversible sheet-turn conformational change of a cell-penetrating peptide in lipid bilayers studied by solid-state NMR. *Journal of Molecular Biology*, **2008**, 381, 1133-44	6.5	36
62	Amantadine-induced conformational and dynamical changes of the influenza M2 transmembrane proton channel. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 1483-8	11.5	95
61	Arginine dynamics in a membrane-bound cationic beta-hairpin peptide from solid-state NMR. *ChemBioChem*, **2008**, 9, 1487-92	3.8	22
60	Effects of guanidinium-phosphate hydrogen bonding on the membrane-bound structure and activity of an arginine-rich membrane peptide from solid-state NMR spectroscopy. *Angewandte Chemie - International Edition*, **2008**, 47, 3202-5	16.4	53

59	Effects of Guanidinium–Phosphate Hydrogen Bonding on the Membrane-Bound Structure and Activity of an Arginine-Rich Membrane Peptide from Solid-State NMR Spectroscopy. *Angewandte Chemie*, **2008**, 120, 3246-3249	3.6	1
58	Simultaneous extraction of multiple orientational constraints of membrane proteins by 13C-detected N-H dipolar couplings under magic angle spinning. *Journal of Magnetic Resonance*, **2008**, 191, 219-25	3	14
57	Torsion Angle Determination by Solid-State NMR **2008**, 727-733		4
56	Determining the orientation of uniaxially rotating membrane proteins using unoriented samples: a 2H, 13C, AND 15N solid-state NMR investigation of the dynamics and orientation of a transmembrane helical bundle. *Journal of the American Chemical Society*, **2007**, 129, 5719-29	16.4	126
55	Phosphate-mediated arginine insertion into lipid membranes and pore formation by a cationic membrane peptide from solid-state NMR. *Journal of the American Chemical Society*, **2007**, 129, 11438-46	16.4	158
54	Structure, topology, and dynamics of membrane peptides and proteins from solid-state NMR spectroscopy. *Journal of Physical Chemistry B*, **2007**, 111, 10340-51	3.4	77
53	Side-chain conformation of the M2 transmembrane peptide proton channel of influenza a virus from 19F solid-state NMR. *Journal of Physical Chemistry B*, **2007**, 111, 10825-32	3.4	53
52	Conformation, dynamics, and insertion of a noncysteine-containing protegrin-1 analogue in lipid membranes from solid-state NMR spectroscopy. *ChemBioChem*, **2007**, 8, 1877-84	3.8	5
51	Trehalose-protected lipid membranes for determining membrane protein structure and insertion. *Journal of Magnetic Resonance*, **2007**, 184, 222-7	3	31
50	A 1D sensitivity-enhanced 1H spin diffusion experiment for determining membrane protein topology. *Solid State Nuclear Magnetic Resonance*, **2006**, 29, 163-9	3.1	11
49	Oligomeric structure, dynamics, and orientation of membrane proteins from solid-state NMR. *Structure*, **2006**, 14, 1731-40	5.2	73
48	Membrane-dependent oligomeric structure and pore formation of a beta-hairpin antimicrobial peptide in lipid bilayers from solid-state NMR. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 16242-7	11.5	196
47	Orientation of a beta-hairpin antimicrobial peptide in lipid bilayers from two-dimensional dipolar chemical-shift correlation NMR. *Biophysical Journal*, **2006**, 90, 3616-24	2.9	29
46	Determination of the oligomeric number and intermolecular distances of membrane protein assemblies by anisotropic 1H-driven spin diffusion NMR spectroscopy. *Journal of the American Chemical Society*, **2006**, 128, 7242-51	16.4	75
45	Solid-state NMR studies of the structure, dynamics, and assembly of beta-sheet membrane peptides and alpha-helical membrane proteins with antibiotic activities. *Accounts of Chemical Research*, **2006**, 39, 176-83	24.3	44
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