

Christopher P Jaroniec

List of Publications by Year in descending order

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73
papers

5,827
citations

76326
40
h-index

74163
75
g-index

78
all docs

78
docs citations

78
times ranked

5237
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of the Dynamically Disordered N-Terminal Tail Domain on the Amyloid Core Structure of Human Y145Stop Prion Protein Fibrils. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 841790.	3.5	1
2	¹³ C and ¹⁵ N chemical shift assignments of A117V and M129V human Y145Stop prion protein amyloid fibrils. <i>Biomolecular NMR Assignments</i> , 2021, 15, 45-51.	0.8	1
3	Histone H4 Tails in Nucleosomes: a Fuzzy Interaction with DNA. <i>Angewandte Chemie</i> , 2021, 133, 6554-6561.	2.0	1
4	Histone H4 Tails in Nucleosomes: a Fuzzy Interaction with DNA. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6480-6487.	13.8	24
5	Conformational Dynamics of Histone H3 Tails in Chromatin. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6174-6181.	4.6	13
6	Sensitivity boosts by the CPMAS CryoProbe for challenging biological assemblies. <i>Journal of Magnetic Resonance</i> , 2020, 311, 106680.	2.1	48
7	Two decades of progress in structural and dynamic studies of amyloids by solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2019, 306, 42-47.	2.1	27
8	NMR spectroscopy of paramagnetic solids. <i>Solid State Nuclear Magnetic Resonance</i> , 2019, 104, 101625.	2.3	1
9	High Accuracy Protein Structures from Minimal Sparse Paramagnetic Solid-State NMR Restraints. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6564-6568.	13.8	11
10	High Accuracy Protein Structures from Minimal Sparse Paramagnetic Solid-State NMR Restraints. <i>Angewandte Chemie</i> , 2019, 131, 6636-6640.	2.0	3
11	Conformational Dynamics in the Core of Human Y145Stop Prion Protein Amyloid Probed by Relaxation Dispersion NMR. <i>ChemPhysChem</i> , 2019, 20, 311-317.	2.1	21
12	Protein-solvent interfaces in human Y145Stop prion protein amyloid fibrils probed by paramagnetic solid-state NMR spectroscopy. <i>Journal of Structural Biology</i> , 2019, 206, 36-42.	2.8	20
13	Targeted production of reactive oxygen species in mitochondria to overcome cancer drug resistance. <i>Nature Communications</i> , 2018, 9, 562.	12.8	242
14	Structural Studies of Amyloid Fibrils by Paramagnetic Solid-State Nuclear Magnetic Resonance Spectroscopy. <i>Journal of the American Chemical Society</i> , 2018, 140, 13161-13166.	13.7	32
15	Peptide bond conformation in peptides and proteins probed by dipolar coupling-chemical shift tensor correlation solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2018, 297, 152-160.	2.1	9
16	¹³ C and ¹⁵ N chemical shift assignments of mammalian Y145Stop prion protein amyloid fibrils. <i>Biomolecular NMR Assignments</i> , 2017, 11, 75-80.	0.8	21
17	Species-dependent structural polymorphism of Y145Stop prion protein amyloid revealed by solid-state NMR spectroscopy. <i>Nature Communications</i> , 2017, 8, 753.	12.8	59
18	Effect of amino acid mutations on the conformational dynamics of amyloidogenic immunoglobulin light-chains: A combined NMR and in silico study. <i>Scientific Reports</i> , 2017, 7, 10339.	3.3	4

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19	Rapid Quantitative Measurements of Paramagnetic Relaxation Enhancements in Cu(II)-Tagged Proteins by Proton-Detected Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5871-5877.	4.6	13
20	Protein structural studies by paramagnetic solid-state NMR spectroscopy aided by a compact cyclen-type Cu(II) binding tag. <i>Journal of Biomolecular NMR</i> , 2015, 61, 1-6.	2.8	20
21	Cysteine-Specific Cu ²⁺ Chelating Tags Used as Paramagnetic Probes in Double Electron Electron Resonance. <i>Journal of Physical Chemistry B</i> , 2015, 119, 2839-2843.	2.6	44
22	A Structural Model for a Self-Assembled Nanotube Provides Insight into Its Exciton Dynamics. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13948-13956.	3.1	21
23	Structural studies of proteins by paramagnetic solid-state NMR spectroscopy. <i>Journal of Magnetic Resonance</i> , 2015, 253, 50-59.	2.1	56
24	2D Covalent Organic Frameworks with Alternating Triangular and Hexagonal Pores. <i>Chemistry of Materials</i> , 2015, 27, 6169-6172.	6.7	75
25	Atomic structure and hierarchical assembly of a cross- β amyloid fibril. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5468-5473.	7.1	479
26	Histone H3 and H4 N-Terminal Tails in Nucleosome Arrays at Cellular Concentrations Probed by Magic Angle Spinning NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2013, 135, 15278-15281.	13.7	80
27	Higher Order Amyloid Fibril Structure by MAS NMR and DNP Spectroscopy. <i>Journal of the American Chemical Society</i> , 2013, 135, 19237-19247.	13.7	82
28	Protein Structure Determination with Paramagnetic Solid-State NMR Spectroscopy. <i>Accounts of Chemical Research</i> , 2013, 46, 2117-2126.	15.6	67
29	NmrGlue: an open source Python package for the analysis of multidimensional NMR data. <i>Journal of Biomolecular NMR</i> , 2013, 55, 355-367.	2.8	245
30	High-Resolution Structure of a Protein Spin-Label in a Solvent-Exposed β -Sheet and Comparison with DEER Spectroscopy. <i>Biochemistry</i> , 2012, 51, 6350-6359.	2.5	30
31	Protein fold determined by paramagnetic magic-angle spinning solid-state NMR spectroscopy. <i>Nature Chemistry</i> , 2012, 4, 410-417.	13.6	88
32	Solid-state nuclear magnetic resonance structural studies of proteins using paramagnetic probes. <i>Solid State Nuclear Magnetic Resonance</i> , 2012, 43-44, 1-13.	2.3	66
33	Intermolecular Alignment in Y145Stop Human Prion Protein Amyloid Fibrils Probed by Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2011, 133, 13934-13937.	13.7	57
34	Conformational Flexibility of a Human Immunoglobulin Light Chain Variable Domain by Relaxation Dispersion Nuclear Magnetic Resonance Spectroscopy: Implications for Protein Misfolding and Amyloid Assembly. <i>Biochemistry</i> , 2011, 50, 5845-5857.	2.5	25
35	Evaluation of the influence of intermolecular electron-nucleus couplings and intrinsic metal binding sites on the measurement of ¹⁵ N longitudinal paramagnetic relaxation enhancements in proteins by solid-state NMR. <i>Journal of Biomolecular NMR</i> , 2011, 51, 293-302.	2.8	31
36	Aqueous Self-Assembly of Lysine-Based Amphiphiles into 1D α -Type Nanotubes. <i>Chemistry - A European Journal</i> , 2011, 17, 12882-12885.	3.3	80

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37	Structural Polymorphism in Amyloids. <i>Journal of Biological Chemistry</i> , 2011, 286, 42777-42784.	3.4	38
38	Amphiphilic Self-Assembly of an α -Type Nanotube. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7688-7691.	13.8	196
39	Inside Cover: Amphiphilic Self-Assembly of an α -Type Nanotube (<i>Angew. Chem. Int. Ed.</i> 42/2010). <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7598-7598.	13.8	4
40	Activator Gcn4 Employs Multiple Segments of Med15/Gal11, Including the KIX Domain, to Recruit Mediator to Target Genes in Vivo. <i>Journal of Biological Chemistry</i> , 2010, 285, 2438-2455.	3.4	68
41	Rapid Acquisition of Multidimensional Solid-State NMR Spectra of Proteins Facilitated by Covalently Bound Paramagnetic Tags. <i>Journal of the American Chemical Society</i> , 2010, 132, 9561-9563.	13.7	66
42	Expression and purification of a recombinant amyloidogenic peptide from transthyretin for solid-state NMR spectroscopy. <i>Protein Expression and Purification</i> , 2010, 70, 101-108.	1.3	5
43	Conformational Flexibility of Y145Stop Human Prion Protein Amyloid Fibrils Probed by Solid-State Nuclear Magnetic Resonance Spectroscopy. <i>Journal of the American Chemical Society</i> , 2010, 132, 2393-2403.	13.7	126
44	Backbone and side-chain ^1H , ^{13}C and ^{15}N resonance assignments of LEN, a human immunoglobulin λ IV light-chain variable domain. <i>Biomolecular NMR Assignments</i> , 2009, 3, 255-259.	0.8	3
45	Paramagnetic Ions Enable Tuning of Nuclear Relaxation Rates and Provide Long-Range Structural Restraints in Solid-State NMR of Proteins. <i>Journal of the American Chemical Society</i> , 2009, 131, 8108-8120.	13.7	124
46	Insights into the Mode of Action of a Putative Zinc Transporter CzcB in <i>Thermus thermophilus</i> . <i>Structure</i> , 2008, 16, 1378-1388.	3.3	83
47	Molecular conformation and dynamics of the Y145Stop variant of human prion protein in amyloid fibrils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 6284-6289.	7.1	182
48	Determination of methyl ^{13}C - ^{15}N dipolar couplings in peptides and proteins by three-dimensional and four-dimensional magic-angle spinning solid-state NMR spectroscopy. <i>Journal of Chemical Physics</i> , 2008, 128, 052314.	3.0	34
49	Long-Range Structural Restraints in Spin-Labeled Proteins Probed by Solid-State Nuclear Magnetic Resonance Spectroscopy. <i>Journal of the American Chemical Society</i> , 2007, 129, 7502-7503.	13.7	110
50	^{13}C and ^{15}N chemical shift assignments and secondary structure of the B3 immunoglobulin-binding domain of streptococcal protein G by magic-angle spinning solid-state NMR spectroscopy. <i>Biomolecular NMR Assignments</i> , 2007, 1, 117-120.	0.8	20
51	Accurate measurement of ^{15}N - ^{13}C residual dipolar couplings in nucleic acids. <i>Journal of Biomolecular NMR</i> , 2005, 31, 231-241.	2.8	23
52	Structure and Dynamics of Micelle-Associated Human Immunodeficiency Virus gp41 Fusion Domain. <i>Biochemistry</i> , 2005, 44, 16167-16180.	2.5	124
53	Quantitative J correlation methods for the accurate measurement of ^{13}C - ^{13}C dipolar couplings in proteins. <i>Journal of Biomolecular NMR</i> , 2004, 30, 181-194.	2.8	27
54	High-resolution molecular structure of a peptide in an amyloid fibril determined by magic angle spinning NMR spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 711-716.	7.1	495

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55	Measurement of Multiple $\text{C}^{\alpha}\text{H}^{\beta}$ Torsion Angles in Uniformly $^{13}\text{C},^{15}\text{N}$ -Labeled α -Spectrin SH3 Domain Using 3D $^{15}\text{N}\text{--}^{13}\text{C}\text{--}^{13}\text{C}\text{--}^{15}\text{N}$ MAS Dipolar-Chemical Shift Correlation Spectroscopy. <i>Journal of the American Chemical Society</i> , 2003, 125, 6827-6833.	13.7	57
56	Molecular conformation of a peptide fragment of transthyretin in an amyloid fibril. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 16748-16753.	7.1	249
57	De novo determination of peptide structure with solid-state magic-angle spinning NMR spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 10260-10265.	7.1	253
58	3D TEDOR NMR Experiments for the Simultaneous Measurement of Multiple Carbon -- Nitrogen Distances in Uniformly $^{13}\text{C},^{15}\text{N}$ -Labeled Solids. <i>Journal of the American Chemical Society</i> , 2002, 124, 10728-10742.	13.7	268
59	Tryptophan Interactions in Bacteriorhodopsin: A Heteronuclear Solid-State NMR Study. <i>Biochemistry</i> , 2002, 41, 2429-2437.	2.5	40
60	Determination of Multiple Torsion-Angle Constraints in Uniformly $^{13}\text{C},^{15}\text{N}$ -Labeled Peptides: A 3D $^{1}\text{H}\text{--}^{15}\text{N}\text{--}^{13}\text{C}\text{--}^{1}\text{H}$ Dipolar Chemical Shift NMR Spectroscopy in Rotating Solids. <i>Journal of the American Chemical Society</i> , 2002, 124, 11908-11922.	13.7	108
61	Chromophore Distortions in the Bacteriorhodopsin Photocycle: Evolution of the $\text{C}^{\alpha}\text{H}\text{--}\text{C}^{\beta}\text{H}$ Dihedral Angle Measured by Solid-State NMR. <i>Biochemistry</i> , 2002, 41, 431-438.	2.5	47
62	Measurement of Dipolar Couplings in a Uniformly $^{13}\text{C},^{15}\text{N}$ -Labeled Membrane Protein: Distances between the Schiff Base and Aspartic Acids in the Active Site of Bacteriorhodopsin. <i>Journal of the American Chemical Society</i> , 2001, 123, 12929-12930.	13.7	42
63	Frequency Selective Heteronuclear Dipolar Recoupling in Rotating Solids: Accurate $^{13}\text{C}\text{--}^{15}\text{N}$ Distance Measurements in Uniformly $^{13}\text{C},^{15}\text{N}$ -labeled Peptides. <i>Journal of the American Chemical Society</i> , 2001, 123, 3507-3519.	13.7	245
64	$^{1}\text{H}\text{--}^{1}\text{H}$ MAS Correlation Spectroscopy and Distance Measurements in a Deuterated Peptide. <i>Journal of Magnetic Resonance</i> , 2001, 151, 320-327.	2.1	149
65	$^{15}\text{N}\text{--}^{1}\text{H}$ Vector Correlation in Peptides by Solid-State NMR. <i>Journal of Magnetic Resonance</i> , 2000, 145, 132-141.	2.1	76
66	Recoupling of Heteronuclear Dipolar Interactions with Rotational-Echo Double-Resonance at High Magic-Angle Spinning Frequencies. <i>Journal of Magnetic Resonance</i> , 2000, 146, 132-139.	2.1	103
67	Local Structure and Relaxation in Solid-State NMR: Accurate Measurement of Amide $\text{N}\text{--}\text{H}$ Bond Lengths and $\text{C}\text{--}\text{N}\text{--}\text{H}$ Bond Angles. <i>Journal of the American Chemical Society</i> , 2000, 122, 3218-3219.	13.7	86
68	Title is missing!. <i>Adsorption</i> , 1999, 5, 313-317.	3.0	10
69	Modification of Surface and Structural Properties of Ordered Mesoporous Silicates. <i>Adsorption</i> , 1999, 5, 39-45.	3.0	19
70	Measurement of $^{13}\text{C}\text{--}^{15}\text{N}$ Distances in Uniformly ^{13}C Labeled Biomolecules: A Decoupled REDOR. <i>Journal of the American Chemical Society</i> , 1999, 121, 10237-10238.	13.7	81
71	Comparative studies of structural and surface properties of porous inorganic oxides used in liquid chromatography. <i>Journal of Chromatography A</i> , 1998, 797, 93-102.	3.7	53
72	Comparative studies of chromatographic properties of silica-based amide-bonded phases under hydro -- organic conditions. <i>Journal of Chromatography A</i> , 1998, 797, 103-110.	3.7	29

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73	Studies of Surface Properties of Disperse Silica and Alumina by Luminescence Measurements and Nitrogen Adsorption. Journal of Colloid and Interface Science, 1998, 201, 210-219.	9.4	17