

Vladimir Ladizhansky

List of Publications by Year in descending order

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55
papers

2,739
citations

212478

28
h-index

214428

50
g-index

57
all docs

57
docs citations

57
times ranked

2709
citing authors

#	ARTICLE	IF	CITATIONS
1	Partial magic angle spinning NMR ¹ H, ¹³ C, ¹⁵ N resonance assignments of the flexible regions of a monomeric alpha-synuclein: conformation of C-terminus in the lipid-bound and amyloid fibril states. <i>Biomolecular NMR Assignments</i> , 2021, 15, 297-303.	0.4	5
2	Improved Protocol for the Production of the Low-Expression Eukaryotic Membrane Protein Human Aquaporin 2 in <i>Pichia pastoris</i> for Solid-State NMR. <i>Biomolecules</i> , 2020, 10, 434.	1.8	5
3	Identifying lipids tightly bound to an integral membrane protein. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183345.	1.4	10
4	Structure of the Functionally Important Extracellular Loop C of Human Aquaporin 1 Obtained by Solid-State NMR under Nearly Physiological Conditions. <i>Journal of Physical Chemistry B</i> , 2019, 123, 7700-7710.	1.2	11
5	Solid-state NMR spectroscopy based atomistic view of a membrane protein unfolding pathway. <i>Nature Communications</i> , 2019, 10, 3867.	5.8	15
6	Biosynthetic production of fully carbon-13 labeled retinal in <i>E. coli</i> for structural and functional studies of rhodopsins. <i>Journal of Biomolecular NMR</i> , 2019, 73, 49-58.	1.6	2
7	Molecular motifs encoding self-assembly of peptide fibers into molecular gels. <i>Soft Matter</i> , 2019, 15, 9205-9214.	1.2	12
8	Partial solid-state NMR ¹ H, ¹³ C, ¹⁵ N resonance assignments of a perdeuterated back-exchanged seven-transmembrane helical protein Anabaena Sensory Rhodopsin. <i>Biomolecular NMR Assignments</i> , 2018, 12, 237-242.	0.4	0
9	Solid-State NMR of Macromolecules. , 2018, , 414-414.		3
10	Advances in Solid-State NMR Studies of Microbial Rhodopsins. , 2018, , 559-580.		0
11	Oligomeric Structure of Anabaena Sensory Rhodopsin in a Lipid Bilayer Environment by Combining Solid-State NMR and Long-range DEER Constraints. <i>Journal of Molecular Biology</i> , 2017, 429, 1903-1920.	2.0	47
12	Solid-State NMR Provides Evidence for Small-Amplitude Slow Domain Motions in a Multispanning Transmembrane α -Helical Protein. <i>Journal of the American Chemical Society</i> , 2017, 139, 9246-9258.	6.6	27
13	Applications of solid-state NMR to membrane proteins. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 1577-1586.	1.1	55
14	Advances in Solid-state NMR Studies of Microbial Rhodopsins. , 2017, , 1-22.		2
15	Sample Preparation of Rhodopsins in the <i>E. coli</i> Membrane for In Situ Magic Angle Spinning Solid-State Nuclear Magnetic Resonance Studies. <i>Springer Protocols</i> , 2016, , 253-267.	0.1	0
16	Sparse ¹³ C labelling for solid-state NMR studies of <i>P. pastoris</i> expressed eukaryotic seven-transmembrane proteins. <i>Journal of Biomolecular NMR</i> , 2016, 65, 7-13.	1.6	14
17	Structure and Dynamics of Extracellular Loops in Human Aquaporin-1 from Solid-State NMR and Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2016, 120, 9887-9902.	1.2	24
18	Proton detection for signal enhancement in solid-state NMR experiments on mobile species in membrane proteins. <i>Journal of Biomolecular NMR</i> , 2015, 63, 375-388.	1.6	23

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19	Membrane proteins in their native habitat as seen by solid-state NMR spectroscopy. <i>Protein Science</i> , 2015, 24, 1333-1346.	3.1	42
20	Advanced solid-state NMR techniques for characterization of membrane protein structure and dynamics: Application to Anabaena Sensory Rhodopsin. <i>Journal of Magnetic Resonance</i> , 2015, 253, 119-128.	1.2	18
21	Cysteine-Specific Labeling of Proteins with a Nitroxide Biradical for Dynamic Nuclear Polarization NMR. <i>Journal of Physical Chemistry B</i> , 2015, 119, 10180-10190.	1.2	53
22	Isotope Labeling of Eukaryotic Membrane Proteins in Yeast for Solid-State NMR. <i>Methods in Enzymology</i> , 2015, 565, 193-212.	0.4	14
23	In Situ Structural Studies of Anabaena Sensory Rhodopsin in the E. Coli Membrane. <i>Biophysical Journal</i> , 2015, 108, 1683-1696.	0.2	54
24	Recent Advances in Magic Angle Spinning Solid-State NMR of Proteins. <i>Israel Journal of Chemistry</i> , 2014, 54, 86-103.	1.0	14
25	High-resolution paramagnetically enhanced solid-state NMR spectroscopy of membrane proteins at fast magic angle spinning. <i>Journal of Biomolecular NMR</i> , 2014, 58, 37-47.	1.6	25
26	Recent advances in magic angle spinning solid state NMR of membrane proteins. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2014, 82, 1-26.	3.9	74
27	Conformational Dynamics of a Seven Transmembrane Helical Protein Anabaena Sensory Rhodopsin Probed by Solid-State NMR. <i>Journal of the American Chemical Society</i> , 2014, 136, 2833-2842.	6.6	78
28	â€œFrozenâ€•Block Copolymer Nanomembranes with Light-Driven Proton Pumping Performance. <i>ACS Nano</i> , 2014, 8, 537-545.	7.3	40
29	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.	3.3	479
30	Solid-state NMR spectroscopy structure determination of a lipid-embedded heptahelical membrane protein. <i>Nature Methods</i> , 2013, 10, 1007-1012.	9.0	196
31	Yeast-expressed human membrane protein aquaporin-1 yields excellent resolution of solid-state MAS NMR spectra. <i>Journal of Biomolecular NMR</i> , 2013, 55, 147-155.	1.6	31
32	Solid-state NMR ^{13}C and ^{15}N resonance assignments of a seven-transmembrane helical protein Anabaena Sensory Rhodopsin. <i>Biomolecular NMR Assignments</i> , 2013, 7, 253-256.	0.4	22
33	Paramagnetic Relaxation Enhancement Reveals Oligomerization Interface of a Membrane Protein. <i>Journal of the American Chemical Society</i> , 2012, 134, 16995-16998.	6.6	74
34	Magic Angle Spinning Solid-State NMR Experiments for Structural Characterization of Proteins. <i>Methods in Molecular Biology</i> , 2012, 895, 153-165.	0.4	29
35	A Eukaryotic-Like Interaction of Soluble Cyanobacterial Sensory Rhodopsin Transducer with DNA. <i>Journal of Molecular Biology</i> , 2011, 411, 449-462.	2.0	23
36	Site-Specific Solid-State NMR Detection of Hydrogen-Deuterium Exchange Reveals Conformational Changes in a 7-Helical Transmembrane Protein. <i>Biophysical Journal</i> , 2011, 101, L23-L25.	0.2	33

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37	Proton-Detected Solid-State NMR Reveals Intramembrane Polar Networks in a Seven-Helical Transmembrane Protein Proteorhodopsin. <i>Journal of the American Chemical Society</i> , 2011, 133, 17434-17443.	6.6	100
38	Uniform isotope labeling of a eukaryotic seven-transmembrane helical protein in yeast enables high-resolution solid-state NMR studies in the lipid environment. <i>Journal of Biomolecular NMR</i> , 2011, 49, 151-161.	1.6	44
39	Conformation of a Seven-Helical Transmembrane Photosensor in the Lipid Environment. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1302-1305.	7.2	108
40	2P116 Three-dimensional Solid-state NMR study of Anabaena Sensory Rhodopsin in the lipid environment : Chemical Shift Assignments(The 48th Annual Meeting of the Biophysical Society of Tj ETQq0 0 0 rgBTdOverlook 10 Tf 50)	10	50
41	Fuzzy complexes of myelin basic protein: NMR spectroscopic investigations of a polymorphic organizational linker of the central nervous systemThis paper is one of a selection of papers published in this special issue entitled "Canadian Society of Biochemistry, Molecular & Cellular Biology 52nd Annual Meeting " Protein Folding: Principles and Diseases"and has undergone the journal's usual peer review process.. <i>Biochemistry and Cell Biology</i> , 2010, 88, 143-155.	0.9	35
42	Solid-State NMR Spectroscopy of Membrane-Associated Myelin Basic Protein"Conformation and Dynamics of an Immunodominant Epitope. <i>Biophysical Journal</i> , 2010, 99, 1247-1255.	0.2	40
43	Homonuclear dipolar recoupling techniques for structure determination in uniformly ¹³ C-labeled proteins. <i>Solid State Nuclear Magnetic Resonance</i> , 2009, 36, 119-128.	1.5	79
44	Solid-state NMR study of proteorhodopsin in the lipid environment: Secondary structure and dynamics. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 2563-2574.	1.4	90
45	Three-Dimensional Solid-State NMR Study of a Seven-Helical Integral Membrane Proton Pump"Structural Insights. <i>Journal of Molecular Biology</i> , 2009, 386, 1078-1093.	2.0	147
46	Structural Polymorphism and Multifunctionality of Myelin Basic Protein. <i>Biochemistry</i> , 2009, 48, 8094-8104.	1.2	178
47	Induced Secondary Structure and Polymorphism in an Intrinsically Disordered Structural Linker of the CNS: Solid-State NMR and FTIR Spectroscopy of Myelin Basic Protein Bound to Actin. <i>Biophysical Journal</i> , 2009, 96, 180-191.	0.2	29
48	Resolution enhancement by homonuclear J-decoupling: application to three-dimensional solid-state magic angle spinning NMR spectroscopy. <i>Journal of Biomolecular NMR</i> , 2008, 41, 9-15.	1.6	18
49	Dipolar Chemical Shift Correlation Spectroscopy for Homonuclear Carbon Distance Measurements in Proteins in the Solid State: Application to Structure Determination and Refinement. <i>Journal of the American Chemical Society</i> , 2008, 130, 359-369.	6.6	39
50	Solid-state NMR spectroscopy of 18.5 kDa myelin basic protein reconstituted with lipid vesicles: Spectroscopic characterisation and spectral assignments of solvent-exposed protein fragments. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 3193-3205.	1.4	43
51	¹³ C" ¹³ C distance measurements in U- ¹³ C, ¹⁵ N-labeled peptides using rotational resonance width experiment with a homogeneously broadened matching condition. <i>Journal of Magnetic Resonance</i> , 2007, 188, 129-140.	1.2	15
52	Band-Selective Carbonyl to Aliphatic Side Chain ¹³ C~ ¹³ C Distance Measurements in U- ¹³ C, ¹⁵ N-Labeled Solid Peptides by Magic Angle Spinning NMR. <i>Journal of the American Chemical Society</i> , 2004, 126, 948-958.	6.6	49
53	Measurement of Multiple γ Torsion Angles in Uniformly ¹³ C, ¹⁵ N-Labeled β -Spectrin SH3 Domain Using 3D ¹⁵ N~ ¹³ C~ ¹³ C~ ¹⁵ N MAS Dipolar-Chemical Shift Correlation Spectroscopy. <i>Journal of the American Chemical Society</i> , 2003, 125, 6827-6833.	6.6	57
54	¹³ C~ ¹³ C Rotational Resonance Width Distance Measurements in Uniformly ¹³ C-Labeled Peptides. <i>Journal of the American Chemical Society</i> , 2003, 125, 15623-15629.	6.6	58

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55	NMR Determination of the Torsion Angle $\hat{\tau}$ in $\hat{\alpha}$ -Helical Peptides and Proteins: The HCCN Dipolar Correlation Experiment. Journal of Magnetic Resonance, 2002, 154, 317-324.	1.2	46