

Veniamin Chevelkov

List of Publications by Year in descending order

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39
papers

2,034
citations

218677

26
h-index

289244

40
g-index

41
all docs

41
docs citations

41
times ranked

1211
citing authors

#	ARTICLE	IF	CITATIONS
1	Protein resonance assignment by BSH-CP based 3D solid-state NMR experiments: A practical guide. <i>Magnetic Resonance in Chemistry</i> , 2020, 58, 445-465.	1.9	9
2	The conduction pathway of potassium channels is water free under physiological conditions. <i>Science Advances</i> , 2019, 5, eaaw6756.	10.3	48
3	Characterization of H/D exchange in type 1 pili by proton-detected solid-state NMR and molecular dynamics simulations. <i>Journal of Biomolecular NMR</i> , 2019, 73, 281-291.	2.8	5
4	Structure and Dynamics of the Rhomboid Protease GlpG in Liposomes Studied by Solid-State NMR. <i>Journal of the American Chemical Society</i> , 2019, 141, 17314-17321.	13.7	32
5	Structure determination of supra-molecular assemblies by solid-state NMR: Practical considerations. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2018, 109, 51-78.	7.5	27
6	Backbone assignment of perdeuterated proteins by solid-state NMR using proton detection and ultrafast magic-angle spinning. <i>Nature Protocols</i> , 2017, 12, 764-782.	12.0	65
7	Measurement of backbone hydrogen-deuterium exchange in the type III secretion system needle protein PrgI by solid-state NMR. <i>Journal of Magnetic Resonance</i> , 2017, 283, 110-116.	2.1	4
8	High resolution observed in 800 MHz DNP spectra of extremely rigid type III secretion needles. <i>Journal of Biomolecular NMR</i> , 2016, 65, 121-126.	2.8	49
9	Atomic-resolution structure of cytoskeletal bactofilin by solid-state NMR. <i>Science Advances</i> , 2015, 1, e1501087.	10.3	64
10	Specific ¹³ C labeling of leucine, valine and isoleucine methyl groups for unambiguous detection of long-range restraints in protein solid-state NMR studies. <i>Journal of Magnetic Resonance</i> , 2015, 252, 10-19.	2.1	9
11	Perspectives for sensitivity enhancement in proton-detected solid-state NMR of highly deuterated proteins by preserving water magnetization. <i>Journal of Biomolecular NMR</i> , 2015, 61, 151-160.	2.8	12
12	Strategies for solid-state NMR investigations of supramolecular assemblies with large subunit sizes. <i>Journal of Magnetic Resonance</i> , 2015, 253, 2-9.	2.1	13
13	Towards automatic protein backbone assignment using proton-detected 4D solid-state NMR data. <i>Journal of Biomolecular NMR</i> , 2014, 60, 85-90.	2.8	46
14	BSH-CP based 3D solid-state NMR experiments for protein resonance assignment. <i>Journal of Biomolecular NMR</i> , 2014, 59, 15-22.	2.8	22
15	Synthetic Access to a Hydrocarbon-Soluble Trifluorinated Ge(II) Compound and its Sn(II) Congener. <i>Journal of the American Chemical Society</i> , 2014, 136, 1292-1295.	13.7	11
16	Proton-detected MAS NMR experiments based on dipolar transfers for backbone assignment of highly deuterated proteins. <i>Journal of Magnetic Resonance</i> , 2014, 242, 180-188.	2.1	37
17	Internal protein dynamics on ps to 1/4s timescales as studied by multi-frequency ¹⁵ N solid-state NMR relaxation. <i>Journal of Biomolecular NMR</i> , 2013, 57, 219-235.	2.8	37
18	Efficient CO-CA transfer in highly deuterated proteins by band-selective homonuclear cross-polarization. <i>Journal of Magnetic Resonance</i> , 2013, 230, 205-211.	2.1	29

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19	Atomic Structure and Handedness of the Building Block of a Biological Assembly. Journal of the American Chemical Society, 2013, 135, 19135-19138.	13.7	18
20	Efficient band-selective homonuclear CO ¹³ C cross-polarization in protonated proteins. Journal of Biomolecular NMR, 2013, 56, 303-311.	2.8	19
21	Lewis base mediated dismutation of trichlorosilane. Chemical Communications, 2012, 48, 7574.	4.1	41
22	Progress in correlation spectroscopy at ultra-fast magic-angle spinning: Basic building blocks and complex experiments for the study of protein structure and dynamics. Solid State Nuclear Magnetic Resonance, 2011, 40, 101-113.	2.3	65
23	¹⁵ NH/D-SOLEXSY experiment for accurate measurement of amide solvent exchange rates: application to denatured drkN SH3. Journal of Biomolecular NMR, 2010, 46, 227-244.	2.8	57
24	Microsecond Time Scale Mobility in a Solid Protein As Studied by the ¹⁵ N Site-Specific NMR Relaxation Rates. Journal of the American Chemical Society, 2010, 132, 11850-11853.	13.7	57
25	Comparison of Solid-State Dipolar Couplings and Solution Relaxation Data Provides Insight into Protein Backbone Dynamics. Journal of the American Chemical Society, 2010, 132, 5015-5017.	13.7	57
26	Quantitative analysis of backbone motion in proteins using MAS solid-state NMR spectroscopy. Journal of Biomolecular NMR, 2009, 45, 197-206.	2.8	77
27	Accurate Determination of Order Parameters from ¹ H, ¹⁵ N Dipolar Couplings in MAS Solid-State NMR Experiments. Journal of the American Chemical Society, 2009, 131, 14018-14022.	13.7	92
28	TROSY effects in MAS solid-state NMR. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2008, 32A, 143-156.	0.5	16
29	Measurement of N15-T1 relaxation rates in a perdeuterated protein by magic angle spinning solid-state nuclear magnetic resonance spectroscopy. Journal of Chemical Physics, 2008, 128, 052316.	3.0	62
30	Differential Line Broadening in MAS Solid-State NMR due to Dynamic Interference. Journal of the American Chemical Society, 2007, 129, 10195-10200.	13.7	71
31	Combined Analysis of ¹⁵ N Relaxation Data from Solid- and Solution-State NMR Spectroscopy. Journal of the American Chemical Society, 2007, 129, 12594-12595.	13.7	58
32	Quantitative measurement of differential ¹⁵ N/ ¹ H T2 relaxation rates in a perdeuterated protein by MAS solid-state NMR spectroscopy. Magnetic Resonance in Chemistry, 2007, 45, S156-S160.	1.9	36
33	Sensitivity enhancement using paramagnetic relaxation in MAS solid-state NMR of perdeuterated proteins. Journal of Magnetic Resonance, 2007, 189, 209-216.	2.1	126
34	Deuterated peptides and proteins in MAS solid-state NMR. Progress in Nuclear Magnetic Resonance Spectroscopy, 2006, 48, 211-232.	7.5	77
35	Ultrahigh Resolution in Proton Solid-State NMR Spectroscopy at High Levels of Deuteration. Angewandte Chemie - International Edition, 2006, 45, 3878-3881.	13.8	299
36	Resolution enhancement in MAS solid-state NMR by application of ¹³ C homonuclear scalar decoupling during acquisition. Journal of Magnetic Resonance, 2005, 172, 56-62.	2.1	21

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37	Detection of dynamic water molecules in a microcrystalline sample of the SH3 domain of α -spectrin by MAS solid-state NMR. <i>Journal of Biomolecular NMR</i> , 2005, 31, 295-310.	2.8	78
38	^1H Detection in MAS Solid-State NMR Spectroscopy of Biomacromolecules Employing Pulsed Field Gradients for Residual Solvent Suppression. <i>Journal of the American Chemical Society</i> , 2003, 125, 7788-7789.	13.7	132
39	CIDNP study of the third spin effect on the singlet-triplet evolution in radical pairs. <i>Chemical Physics Letters</i> , 2002, 357, 351-357.	2.6	18