

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 | Ultra-high Resolution in Proton Solid-State NMR Spectroscopy at High Levels of Deuteration. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 3878-3881. | 13.8 | 299 |
| 2 | ¹ H 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 |
| 3 | Sensitivity enhancement using paramagnetic relaxation in MAS solid-state NMR of perdeuterated proteins. <i>Journal of Magnetic Resonance</i> , 2007, 189, 209-216. | 2.1 | 126 |
| 4 | Accurate Determination of Order Parameters from ¹ H, ¹⁵ N Dipolar Couplings in MAS Solid-State NMR Experiments. <i>Journal of the American Chemical Society</i> , 2009, 131, 14018-14022. | 13.7 | 92 |
| 5 | Detection of dynamic water molecules in a microcrystalline sample of the SH3 domain of Î±-spectrin by MAS solid-state NMR. <i>Journal of Biomolecular NMR</i> , 2005, 31, 295-310. | 2.8 | 78 |
| 6 | Deuterated peptides and proteins in MAS solid-state NMR. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2006, 48, 211-232. | 7.5 | 77 |
| 7 | Quantitative analysis of backbone motion in proteins using MAS solid-state NMR spectroscopy. <i>Journal of Biomolecular NMR</i> , 2009, 45, 197-206. | 2.8 | 77 |
| 8 | Differential Line Broadening in MAS Solid-State NMR due to Dynamic Interference. <i>Journal of the American Chemical Society</i> , 2007, 129, 10195-10200. | 13.7 | 71 |
| 9 | Progress in correlation spectroscopy at ultra-fast magic-angle spinning: Basic building blocks and complex experiments for the study of protein structure and dynamics. <i>Solid State Nuclear Magnetic Resonance</i> , 2011, 40, 101-113. | 2.3 | 65 |
| 10 | 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 |
| 11 | Atomic-resolution structure of cytoskeletal bactofilin by solid-state NMR. <i>Science Advances</i> , 2015, 1, e1501087. | 10.3 | 64 |
| 12 | Measurement of N15-T1 relaxation rates in a perdeuterated protein by magic angle spinning solid-state nuclear magnetic resonance spectroscopy. <i>Journal of Chemical Physics</i> , 2008, 128, 052316. | 3.0 | 62 |
| 13 | Combined Analysis of ¹⁵ N Relaxation Data from Solid- and Solution-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2007, 129, 12594-12595. | 13.7 | 58 |
| 14 | ¹⁵ NH/D-SOLEXSY experiment for accurate measurement of amide solvent exchange rates: application to denatured drkN SH3. <i>Journal of Biomolecular NMR</i> , 2010, 46, 227-244. | 2.8 | 57 |
| 15 | Microsecond Time Scale Mobility in a Solid Protein As Studied by the ¹⁵ N Site-Specific NMR Relaxation Rates. <i>Journal of the American Chemical Society</i> , 2010, 132, 11850-11853. | 13.7 | 57 |
| 16 | Comparison of Solid-State Dipolar Couplings and Solution Relaxation Data Provides Insight into Protein Backbone Dynamics. <i>Journal of the American Chemical Society</i> , 2010, 132, 5015-5017. | 13.7 | 57 |
| 17 | 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 |
| 18 | The conduction pathway of potassium channels is water free under physiological conditions. <i>Science Advances</i> , 2019, 5, eaaw6756. | 10.3 | 48 |

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|----|---|------|-----------|
| 19 | 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 |
| 20 | Lewis base mediated dismutation of trichlorosilane. <i>Chemical Communications</i> , 2012, 48, 7574. | 4.1 | 41 |
| 21 | Internal protein dynamics on ps to $\hat{1}/4$ s 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 |
| 22 | 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 |
| 23 | Quantitative measurement of differential ^{15}N $\hat{1}/2$ T_2 relaxation rates in a perdeuterated protein by MAS solid-state NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2007, 45, S156-S160. | 1.9 | 36 |
| 24 | 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 |
| 25 | Efficient $\text{CO} \hat{1} \text{CA}$ transfer in highly deuterated proteins by band-selective homonuclear cross-polarization. <i>Journal of Magnetic Resonance</i> , 2013, 230, 205-211. | 2.1 | 29 |
| 26 | 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 |
| 27 | 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 |
| 28 | Resolution enhancement in MAS solid-state NMR by application of ^{13}C homonuclear scalar decoupling during acquisition. <i>Journal of Magnetic Resonance</i> , 2005, 172, 56-62. | 2.1 | 21 |
| 29 | Efficient band-selective homonuclear $\text{CO} \hat{1} \text{CA}$ cross-polarization in protonated proteins. <i>Journal of Biomolecular NMR</i> , 2013, 56, 303-311. | 2.8 | 19 |
| 30 | CIDNP study of the third spin effect on the singlet $\hat{1}$ triplet evolution in radical pairs. <i>Chemical Physics Letters</i> , 2002, 357, 351-357. | 2.6 | 18 |
| 31 | Atomic Structure and Handedness of the Building Block of a Biological Assembly. <i>Journal of the American Chemical Society</i> , 2013, 135, 19135-19138. | 13.7 | 18 |
| 32 | TROSY effects in MAS solid-state NMR. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2008, 32A, 143-156. | 0.5 | 16 |
| 33 | 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 |
| 34 | 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 |
| 35 | 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 |
| 36 | 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 |

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|----|---|-----|-----------|
| 37 | Protein resonance assignment by BSHâ€CPâ€based 3D solidâ€state NMR experiments: A practical guide. <i>Magnetic Resonance in Chemistry</i> , 2020, 58, 445-465. | 1.9 | 9 |
| 38 | 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 |
| 39 | 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 |