Liliya Vugmeyster

List of Publications by Year
in descending order

50 papers	914 citations	516710 16 h-index	477307 29 g-index
50 all docs	50 docs citations	50 times ranked	694 citing authors

#	Article	IF	Citations
1	Comparative Hydrophobic Core Dynamics Between Wildâ€Type Amyloidâ€Î² Fibrils, Glutamateâ€3 Truncation, and Serineâ€8 Phosphorylation. ChemPhysChem, 2022, 23, .	2.1	2
2	Deuteron rotating frame relaxation for the detection of slow motions in rotating solids. Journal of Magnetic Resonance, 2022, 337, 107171.	2.1	4
3	Recent developments in deuterium solid-state NMR for the detection of slow motions in proteins. Solid State Nuclear Magnetic Resonance, 2021, 111, 101710.	2.3	13
4	Deuteron Chemical Exchange Saturation Transfer for the Detection of Slow Motions in Rotating Solids. Frontiers in Molecular Biosciences, 2021, 8, 705572.	3.5	3
5	Deuterium solid-state NMR quadrupolar order rotating frame relaxation with applications to amyloid-Î² fibrils. Magnetic Resonance in Chemistry, 2021, 59, 853-863.	1.9	1
6	Deuterium solidâ€state NMR quadrupolar order rotating frame relaxation with applications to amyloidâ€Î² fibrils. Magnetic Resonance in Chemistry, 2021, 59, 853-863.	1.9	2
7	Deuteron Quadrupolar Chemical Exchange Saturation Transfer (Qâ€CEST) Solidâ€State NMR for Static Powder Samples: Approach and Applications to Amyloidâ€Î² Fibrils. ChemPhysChem, 2020, 21, 220-231.	2.1	11
8	N-Terminal Modified AÎ² Variants Enable Modulations to the Structures and Cytotoxicity Levels of Wild-Type AÎ² Fibrils through Cross-Seeding. ACS Chemical Neuroscience, 2020, 11, 2058-2065.	3.5	10
9	Dynamics of Serine-8 Side-Chain in Amyloid-Î² Fibrils and Fluorenylmethyloxycarbonyl Serine Amino Acid, Investigated by Solid-State Deuteron NMR. Journal of Physical Chemistry B, 2020, 124, 4723-4731.	2.6	3
10	Deuteration of nonexchangeable protons on proteins affects their thermal stability, sideâ€chain dynamics, and hydrophobicity. Protein Science, 2020, 29, 1641-1654.	7.6	21
11	Distanceâ€Independent Crossâ€Correlated Relaxation and Isotropic Chemical Shift Modulation in Protein Dynamics Studies. ChemPhysChem, 2019, 20, 178-196.	2.1	8
12	Deuterium Rotating Frame NMR Relaxation Measurements in the Solid State under Static Conditions for Quantification of Dynamics. ChemPhysChem, 2019, 20, 333-342.	2.1	16
13	Effect of Post-Translational Modifications and Mutations on Amyloid-Î² Fibrils Dynamics at NÂTerminus. Biophysical Journal, 2019, 117, 1524-1535.	0.5	15
14	Molecular structure of an N-terminal phosphorylated Î²-amyloid fibril. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11253-11258.	7.1	43
15	Deuteron Solidâ€State NMR Relaxation Measurements Reveal Two Distinct Conformational Exchange Processes in the Disordered Nâ€Terminal Domain of Amyloidâ€Î² Fibrils. ChemPhysChem, 2019, 20, 1680-1689.	2.1	16
16	Solid-state NMR reveals a comprehensive view of the dynamics of the flexible, disordered N-terminal domain of amyloid-Î² fibrils. Journal of Biological Chemistry, 2019, 294, 5840-5853.	3.4	24
17	Plant Villin Headpiece Domain Demonstrates a Novel Surface Charge Pattern and High Affinity for F-Actin. Biochemistry, 2018, 57, 1690-1701.	2.5	4
18	Basic experiments in 2H static NMR for the characterization of protein side-chain dynamics. Methods, 2018, 148, 136-145.	3.8	13

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19	Correlated motions of Câ€²â€“N and CÎ±â€“CÎ² pairs in protonated and per-deuterated GB3. Journal of Biomolecular NMR, 2018, 72, 39-54.	2.8	5
20	Evaluating the effect of grain size and salts on liquid water content in frozen soils of Antarctica by combining NMR, chemical equilibrium modeling, and scattered diffraction analysis. Geoderma, 2017, 299, 25-31.	5.1	13
21	Comparative dynamics of methionine side-chain in FMOC-methionine and in amyloid fibrils. Chemical Physics Letters, 2017, 673, 108-112.	2.6	5
22	Static solid-state 2H NMR methods in studies of protein side-chain dynamics. Progress in Nuclear Magnetic Resonance Spectroscopy, 2017, 101, 1-17.	7.5	30
23	Optimized purification of a fusion protein by reversed-phase high performance liquid chromatography informed by the linear solvent strength model. Journal of Chromatography A, 2017, 1521, 44-52.	3.7	1
24	Solvent-Driven Dynamical Crossover in the Phenylalanine Side-Chain from the Hydrophobic Core of Amyloid Fibrils Detected by ²H NMR Relaxation. Journal of Physical Chemistry B, 2017, 121, 7267-7275.	2.6	14
25	The unusual internal motion of the villin headpiece subdomain. Protein Science, 2016, 25, 423-432.	7.6	5
26	Flexibility and Solvation of Amyloid-Î² Hydrophobic Core. Journal of Biological Chemistry, 2016, 291, 18484-18495.	3.4	43
27	Fast Motions of Key Methyl Groups in Amyloid-Î² Fibrils. Biophysical Journal, 2016, 111, 2135-2148.	0.5	13
28	15N CSA tensors and 15Nâ€“1H dipolar couplings of protein hydrophobic core residues investigated by static solid-state NMR. Journal of Magnetic Resonance, 2015, 259, 225-231.	2.1	6
29	Dynamics of Hydrophobic Core Phenylalanine Residues Probed by Solid-State Deuteron NMR. Journal of Physical Chemistry B, 2015, 119, 14892-14904.	2.6	24
30	Restricted diffusion of methyl groups in proteins revealed by deuteron NMR: Manifestation of intra-well dynamics. Journal of Chemical Physics, 2014, 140, 075101.	3.0	7
31	Effect of subdomain interactions on methyl group dynamics in the hydrophobic core of villin headpiece protein. Protein Science, 2014, 23, 145-156.	7.6	6
32	Origin of Abrupt Rise in Deuteron NMR Longitudinal Relaxation Times of Protein Methyl Groups below 90 K. Journal of Physical Chemistry B, 2013, 117, 6129-6137.	2.6	11
33	Glassy Dynamics of Protein Methyl Groups Revealed by Deuteron NMR. Journal of Physical Chemistry B, 2013, 117, 1051-1061.	2.6	25
34	Characterization of water dynamics in frozen soils by solid-state deuteron NMR. Solid State Nuclear Magnetic Resonance, 2012, 45-46, 11-15.	2.3	2
35	Slow Motions in the Hydrophobic Core of Chicken Villin Headpiece Subdomain and Their Contributions to Configurational Entropy and Heat Capacity from Solid-State Deuteron NMR Measurements. Biochemistry, 2011, 50, 10637-10646.	2.5	40
36	Temperature dependence of fast carbonyl backbone dynamics in chicken villin headpiece subdomain. Journal of Biomolecular NMR, 2011, 50, 119-127.	2.8	12

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37	Comparison of fast backbone dynamics at amide nitrogen and carbonyl sites in dematin headpiece C-terminal domain and its S74E mutant. Journal of Biomolecular NMR, 2010, 47, 155-162.	2.8	3
38	Comparative Dynamics of Leucine Methyl Groups in FMOC-Leucine and in a Protein Hydrophobic Core Probed by Solid-State Deuteron Nuclear Magnetic Resonance over 7â˜324 K Temperature Range. Journal of Physical Chemistry B, 2010, 114, 15799-15807.	2.6	11
39	Freezing of Dynamics of a Methyl Group in a Protein Hydrophobic Core at Cryogenic Temperatures by Deuteron NMR Spectroscopy. Journal of the American Chemical Society, 2010, 132, 4038-4039.	13.7	33
40	Slow backbone dynamics of chicken villin headpiece subdomain probed by NMR Câ€²ï£¿N crossâ€correlated relaxation. Magnetic Resonance in Chemistry, 2009, 47, 746-751.	1.9	3
41	Phosphorylation-induced changes in backbone dynamics of the dematin headpiece C-terminal domain. Journal of Biomolecular NMR, 2009, 43, 39-50.	2.8	10
42	Probing the Dynamics of a Protein Hydrophobic Core by Deuteron Solid-State Nuclear Magnetic Resonance Spectroscopy. Journal of the American Chemical Society, 2009, 131, 13651-13658.	13.7	51
43	Solid state deuteron relaxation time anisotropy measured with multiple echo acquisition. Physical Chemistry Chemical Physics, 2009, 11, 7008.	2.8	31
44	Slow Motions in Chicken Villin Headpiece Subdomain Probed by Cross-Correlated NMR Relaxation of Amide NH Bonds in Successive Residues. Biophysical Journal, 2008, 95, 5941-5950.	0.5	19
45	Evidence of Slow Motions by Cross-Correlated Chemical Shift Modulation in Deuterated and Protonated Proteins. Journal of Biomolecular NMR, 2004, 28, 173-177.	2.8	8
46	Beyond the Decoupling Approximation in the Model Free Approach for the Interpretation of NMR Relaxation of Macromolecules in Solution. Journal of the American Chemical Society, 2003, 125, 8400-8404.	13.7	38
47	Dynamic NMR Line-Shape Analysis Demonstrates that the Villin Headpiece Subdomain Folds on the Microsecond Time Scale. Journal of the American Chemical Society, 2003, 125, 6032-6033.	13.7	122
48	Temperature-dependent Dynamics of the Villin Headpiece Helical Subdomain, An Unusually Small Thermostable Protein. Journal of Molecular Biology, 2002, 320, 841-854.	4.2	66
49	15NR1Ï Measurements Allow the Determination of Ultrafast Protein Folding Rates. Journal of the American Chemical Society, 2000, 122, 5387-5388.	13.7	41
50	Amide proton exchange measurements as a probe of the stability and dynamics of the nâ€terminal domain of the ribosomal protein L9: Comparison with the intact protein. Protein Science, 1998, 7, 1994-1997.	7.6	7