Alexey Krushelnitsky

List of Publications by Year
in descending order

23	742	516710	610901
papers	citations	16 h-index	24 g-index

24	24	24	681
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Solid-state NMR and protein dynamics. Progress in Nuclear Magnetic Resonance Spectroscopy, 2005, 47, 1-25.	7.5	98
2	Coupling and Decoupling of Rotational and Translational Diffusion of Proteins under Crowding Conditions. Journal of the American Chemical Society, 2016, 138, 10365-10372.	13.7	86
3	Solid-State NMR Approaches to Internal Dynamics of Proteins: From Picoseconds to Microseconds and Seconds. Accounts of Chemical Research, 2013, 46, 2028-2036.	15.6	72
4	The nuclear magnetic resonance relaxation data analysis in solids: General R1/R1Ï‹ equations and the model-free approach. Journal of Chemical Physics, 2011, 135, 184104.	3.0	58
5	Microsecond Time Scale Mobility in a Solid Protein As Studied by the ¹⁵N R_{1Ï‹} Site-Specific NMR Relaxation Rates. Journal of the American Chemical Society, 2010, 132, 11850-11853.	13.7	57
6	Direct Observation of Millisecond to Second Motions in Proteins by Dipolar CODEX NMR Spectroscopy. Journal of the American Chemical Society, 2009, 131, 12097-12099.	13.7	45
7	Expanding the Frequency Range of the Solid-State T1 Ï•Experiment for Heteronuclear Dipolar Relaxation. Solid State Nuclear Magnetic Resonance, 2002, 22, 423-438.	2.3	41
8	Slow motions in microcrystalline proteins as observed by MAS-dependent 15N rotating-frame NMR relaxation. Journal of Magnetic Resonance, 2014, 248, 8-12.	2.1	41
9	Internal protein dynamics on ps to Î¼s timescales as studied by multi-frequency 15N solid-state NMR relaxation. Journal of Biomolecular NMR, 2013, 57, 219-235.	2.8	37
10	Microsecond motions probed by near-rotary-resonance R1Ï•15N MAS NMR experiments: the model case of protein overall-rocking in crystals. Journal of Biomolecular NMR, 2018, 71, 53-67.	2.8	34
11	15N spin diffusion rate in solid-state NMR of totally enriched proteins: The magic angle spinning frequency effect. Journal of Magnetic Resonance, 2006, 182, 339-342.	2.1	33
12	The trehalose coating effect on the internal protein dynamics. Physical Chemistry Chemical Physics, 2012, 14, 2727.	2.8	23
13	NMR-Detected Brownian Dynamics of Î± B-Crystallin over a Wide Range of Concentrations. Biophysical Journal, 2015, 108, 98-106.	0.5	21
14	Intermolecular electrostatic interactions and Brownian tumbling in protein solutions. Physical Chemistry Chemical Physics, 2006, 8, 2117.	2.8	19
15	The â€œlong tailâ€•of the protein tumbling correlation function: observation by 1H NMR relaxometry in a wide frequency and concentration range. Journal of Biomolecular NMR, 2015, 63, 403-415.	2.8	19
16	Hydration dependence of backbone and side chain polylysine dynamics: A13C solid-state NMR and IR spectroscopy study. Biopolymers, 2004, 73, 1-15.	2.4	18
17	The relation of the X-ray B-factor to protein dynamics: insights from recent dynamic solid-state NMR data. Journal of Biomolecular Structure and Dynamics, 2012, 30, 617-627.	3.5	16
18	Comparison of the internal dynamics of globular proteins in the microcrystalline and rehydrated lyophilized states. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2006, 1764, 1639-1645.	2.3	10

#	Article	IF	Citations
19	Complex1H,13C-NMR relaxation and computer simulation study of side-chain dynamics in solid polylysine. Biopolymers, 2005, 78, 129-139.	2.4	5
20	Quantitative NMR study of heat-induced aggregation of eye-lens crystallin proteins under crowding conditions. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2018, 1866, 1055-1061.	2.3	3
21	Chapter 6. CODEX-based Methods for Studying Slow Dynamics. New Developments in NMR, 2018, , 161-192.	0.1	2
22	Relaxation-induced dipolar exchange with recoupling (RIDER) distortions in CODEX experiments. Magnetic Resonance, 2020, 1, 247-259.	1.9	2
23	Trajectory-Based Approach for the Analysis of CODEX Solid-State Exchange Experiments in the Slow and Intermediate Motion Regime: Comparison of Experiment, Simulation, and Analytical Treatment. Journal of Physical Chemistry C, 2021, 125, 6839-6850.	3.1	1