Alexey Krushelnitsky

List of Publications by Year
in descending order

23 papers	742 citations	516710 16 h-index	610901 24 g-index
24 all docs	24 docs citations	24 times ranked	681 citing authors

#	Article	IF	Citations
1	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
2	Relaxation-induced dipolar exchange with recoupling (RIDER) distortions in CODEX experiments. Magnetic Resonance, 2020, 1, 247-259.	1.9	2
3	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
4	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
5	Chapter 6. CODEX-based Methods for Studying Slow Dynamics. New Developments in NMR, 2018, , 161-192.	0.1	2
6	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
7	NMR-Detected Brownian Dynamics of Î± B-Crystallin over a Wide Range of Concentrations. Biophysical Journal, 2015, 108, 98-106.	0.5	21
8	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
9	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
10	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
11	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
12	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
13	The trehalose coating effect on the internal protein dynamics. Physical Chemistry Chemical Physics, 2012, 14, 2727.	2.8	23
14	The nuclear magnetic resonance relaxation data analysis in solids: General <i>R</i>1/<i>R</i>1<i>Ï</i> equations and the model-free approach. Journal of Chemical Physics, 2011, 135, 184104.	3.0	58
15	Microsecond Time Scale Mobility in a Solid Protein As Studied by the ¹⁵N <i>R</i>_{1Ï} Site-Specific NMR Relaxation Rates. Journal of the American Chemical Society, 2010, 132, 11850-11853.	13.7	57
16	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
17	Intermolecular electrostatic interactions and Brownian tumbling in protein solutions. Physical Chemistry Chemical Physics, 2006, 8, 2117.	2.8	19
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	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
20	Complex1H,13C-NMR relaxation and computer simulation study of side-chain dynamics in solid polylysine. Biopolymers, 2005, 78, 129-139.	2.4	5
21	Solid-state NMR and protein dynamics. Progress in Nuclear Magnetic Resonance Spectroscopy, 2005, 47, 1-25.	7.5	98
22	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
23	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