

Ashok Sekhar

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39
papers

1,316
citations

19
h-index

36
g-index

42
ext. papers

1,591
ext. citations

7.4
avg, IF

5.09
L-index

#	Paper	IF	Citations
39	Elucidating the mechanisms underlying protein conformational switching using NMR spectroscopy.. <i>Journal of Magnetic Resonance Open</i> , 2022 , 10-11, 100034	0.4	0
38	Quantification of Entropic Excluded Volume Effects Driving Crowding-Induced Collapse and Folding of a Disordered Protein.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 13, 3112-3120	6.4	1
37	Metamorphic proteins: the Janus proteins of structural biology. <i>Open Biology</i> , 2021 , 11, 210012	7	5
36	Measuring radiofrequency fields in NMR spectroscopy using offset-dependent nutation profiles. <i>Journal of Magnetic Resonance</i> , 2021 , 330, 107032	3	
35	Characterizing Post-Translational Modifications and Their Effects on Protein Conformation Using NMR Spectroscopy. <i>Biochemistry</i> , 2020 , 59, 57-73	3.2	14
34	Engineering Order and Cooperativity in a Disordered Protein. <i>Biochemistry</i> , 2019 , 58, 2389-2397	3.2	4
33	An NMR View of Protein Dynamics in Health and Disease. <i>Annual Review of Biophysics</i> , 2019 , 48, 297-319	21.1	60
32	Effects of maturation on the conformational free-energy landscape of SOD1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E2546-E2555	11.5	34
31	Measuring Diffusion Constants of Invisible Protein Conformers by Triple-Quantum H CPMG Relaxation Dispersion. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16777-16780	16.4	8
30	Measuring Diffusion Constants of Invisible Protein Conformers by Triple-Quantum ¹ H CPMG Relaxation Dispersion. <i>Angewandte Chemie</i> , 2018 , 130, 17019-17022	3.6	1
29	Conserved conformational selection mechanism of Hsp70 chaperone-substrate interactions. <i>ELife</i> , 2018 , 7,	8.9	50
28	Self-Assembly of Human Profilin-1 Detected by Carr-Purcell-Meiboom-Gill Nuclear Magnetic Resonance (CPMG NMR) Spectroscopy. <i>Biochemistry</i> , 2017 , 56, 692-703	3.2	18
27	Probing conformational dynamics in biomolecules via chemical exchange saturation transfer: a primer. <i>Journal of Biomolecular NMR</i> , 2017 , 67, 243-271	3	78
26	Separating Dipolar and Chemical Exchange Magnetization Transfer Processes in H-CEST. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6122-6125	16.4	24
25	Conformational heterogeneity in the Hsp70 chaperone-substrate ensemble identified from analysis of NMR-detected titration data. <i>Protein Science</i> , 2017 , 26, 2207-2220	6.3	16
24	A Universal Pattern in the Percolation and Dissipation of Protein Structural Perturbations. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 4779-4784	6.4	31
23	Structural and hydrodynamic properties of an intrinsically disordered region of a germ cell-specific protein on phase separation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E8194-E8203	11.5	227

22	An enhanced sensitivity methyl H triple-quantum pulse scheme for measuring diffusion constants of macromolecules. <i>Journal of Biomolecular NMR</i> , 2017 , 68, 249-255	3	8
21	Separating Dipolar and Chemical Exchange Magnetization Transfer Processes in 1H-CEST. <i>Angewandte Chemie</i> , 2017 , 129, 6218-6221	3.6	2
20	Promiscuous binding by Hsp70 results in conformational heterogeneity and fuzzy chaperone-substrate ensembles. <i>ELife</i> , 2017 , 6,	8.9	57
19	Evolution of magnetization due to asymmetric dimerization: theoretical considerations and application to aberrant oligomers formed by apoSOD1(2SH). <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 5720-8	3.6	6
18	Probing the free energy landscapes of ALS disease mutants of SOD1 by NMR spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E6939-E6945	11.5	35
17	Hsp70 biases the folding pathways of client proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E2794-801	11.5	73
16	Evaluating the influence of initial magnetization conditions on extracted exchange parameters in NMR relaxation experiments: applications to CPMG and CEST. <i>Journal of Biomolecular NMR</i> , 2016 , 65, 143-156	3	2
15	Mapping the conformation of a client protein through the Hsp70 functional cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 10395-400	11.5	62
14	Heterogeneous binding of the SH3 client protein to the DnaK molecular chaperone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E4206-15	11.5	42
13	Probing Invisible, Excited Protein States by Non-Uniformly Sampled Pseudo-4D CEST Spectroscopy. <i>Angewandte Chemie</i> , 2015 , 127, 10653-10657	3.6	5
12	Probing Invisible, Excited Protein States by Non-Uniformly Sampled Pseudo-4D CEST Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 10507-11	16.4	22
11	Thermal fluctuations of immature SOD1 lead to separate folding and misfolding pathways. <i>ELife</i> , 2015 , 4, e07296	8.9	67
10	Understanding the mechanism of proteasome 20S core particle gating. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 5532-7	11.5	41
9	Viscosity-dependent kinetics of protein conformational exchange: microviscosity effects and the need for a small viscogen. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 4546-51	3.4	20
8	Triple resonance-based $^{13}\text{C}(^1\text{H})$ and $^{13}\text{C}(^1\text{H})$ CEST experiments for studies of ms timescale dynamics in proteins. <i>Journal of Biomolecular NMR</i> , 2014 , 60, 203-8	3	20
7	Defining a length scale for millisecond-timescale protein conformational exchange. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 11391-6	11.5	23
6	NMR paves the way for atomic level descriptions of sparsely populated, transiently formed biomolecular conformers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 12867-74	11.5	194
5	Folding of the four-helix bundle FF domain from a compact on-pathway intermediate state is governed predominantly by water motion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 19268-73	11.5	15

4	Protein folding rates and thermodynamic stability are key determinants for interaction with the Hsp70 chaperone system. <i>Protein Science</i> , 2012 , 21, 1489-502	6.3	12
3	Transient interactions of a slow-folding protein with the Hsp70 chaperone machinery. <i>Protein Science</i> , 2012 , 21, 1042-55	6.3	15
2	EPIC- and CHANCE-HSQC: two ¹⁵ N-photo-CIDNP-enhanced pulse sequences for the sensitive detection of solvent-exposed tryptophan. <i>Journal of Magnetic Resonance</i> , 2009 , 200, 207-13	3	13
1	¹ H photo-CIDNP enhancements in heteronuclear correlation NMR spectroscopy. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 8310-8	3.4	10