

Ashok Sekhar

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,861
citations

331538

21
h-index

302012

39
g-index

42
all docs

42
docs citations

42
times ranked

1976
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and hydrodynamic properties of an intrinsically disordered region of a germ cell-specific protein on phase separation. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8194-E8203.	3.3	381
2	NMR paves the way for atomic level descriptions of sparsely populated, transiently formed biomolecular conformers. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12867-12874.	3.3	230
3	Probing conformational dynamics in biomolecules via chemical exchange saturation transfer: a primer. Journal of Biomolecular NMR, 2017, 67, 243-271.	1.6	123
4	An NMR View of Protein Dynamics in Health and Disease. Annual Review of Biophysics, 2019, 48, 297-319.	4.5	113
5	Thermal fluctuations of immature SOD1 lead to separate folding and misfolding pathways. ELife, 2015, 4, e07296.	2.8	91
6	Mapping the conformation of a client protein through the Hsp70 functional cycle. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10395-10400.	3.3	85
7	Hsp70 biases the folding pathways of client proteins. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2794-801.	3.3	84
8	Promiscuous binding by Hsp70 results in conformational heterogeneity and fuzzy chaperone-substrate ensembles. ELife, 2017, 6, .	2.8	72
9	Conserved conformational selection mechanism of Hsp70 chaperone-substrate interactions. ELife, 2018, 7, .	2.8	71
10	Heterogeneous binding of the SH3 client protein to the DnaK molecular chaperone. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4206-15.	3.3	49
11	Effects of maturation on the conformational free-energy landscape of SOD1. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2546-E2555.	3.3	48
12	Probing the free energy landscapes of ALS disease mutants of SOD1 by NMR spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6939-E6945.	3.3	47
13	Understanding the mechanism of proteasome 20S core particle gating. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5532-5537.	3.3	46
14	A Universal Pattern in the Percolation and Dissipation of Protein Structural Perturbations. Journal of Physical Chemistry Letters, 2017, 8, 4779-4784.	2.1	39
15	Separating Dipolar and Chemical Exchange Magnetization Transfer Processes in ^1H -CEST. Angewandte Chemie - International Edition, 2017, 56, 6122-6125.	7.2	35
16	Defining a length scale for millisecond-timescale protein conformational exchange. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11391-11396.	3.3	29
17	Characterizing Post-Translational Modifications and Their Effects on Protein Conformation Using NMR Spectroscopy. Biochemistry, 2020, 59, 57-73.	1.2	29
18	Triple resonance-based ^{13}C and ^{13}C CEST experiments for studies of ms timescale dynamics in proteins. Journal of Biomolecular NMR, 2014, 60, 203-208.	1.6	28

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19	Probing Invisible, Excited Protein States by Non-Uniformly Sampled Pseudo-4D CEST Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10507-10511.	7.2	25
20	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, 4546-4551.	1.2	24
21	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.	1.2	23
22	Transient interactions of a slow-folding protein with the Hsp70 chaperone machinery. <i>Protein Science</i> , 2012, 21, 1042-1055.	3.1	20
23	Conformational heterogeneity in the Hsp70 chaperone-substrate ensemble identified from analysis of NMR-detected titration data. <i>Protein Science</i> , 2017, 26, 2207-2220.	3.1	19
24	Protein folding rates and thermodynamic stability are key determinants for interaction with the Hsp70 chaperone system. <i>Protein Science</i> , 2012, 21, 1489-1502.	3.1	18
25	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, 19268-19273.	3.3	17
26	Measuring Diffusion Constants of Invisible Protein Conformers by Triple-Quantum ¹ H CPMG Relaxation Dispersion. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16777-16780.	7.2	17
27	EPIC- and CHANCE-HSQC: Two 15N-photo-CIDNP-enhanced pulse sequences for the sensitive detection of solvent-exposed tryptophan. <i>Journal of Magnetic Resonance</i> , 2009, 200, 207-213.	1.2	16
28	¹ H Photo-CIDNP Enhancements in Heteronuclear Correlation NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2009, 113, 8310-8318.	1.2	13
29	Metamorphic proteins: the Janus proteins of structural biology. <i>Open Biology</i> , 2021, 11, 210012.	1.5	11
30	Engineering Order and Cooperativity in a Disordered Protein. <i>Biochemistry</i> , 2019, 58, 2389-2397.	1.2	10
31	An enhanced sensitivity methyl 1H triple-quantum pulse scheme for measuring diffusion constants of macromolecules. <i>Journal of Biomolecular NMR</i> , 2017, 68, 249-255.	1.6	9
32	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, 5720-5728.	1.3	8
33	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.	1.6	6
34	Measuring Diffusion Constants of Invisible Protein Conformers by Triple-Quantum 1 H CPMG Relaxation Dispersion. <i>Angewandte Chemie</i> , 2018, 130, 17019-17022.	1.6	5
35	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.	2.1	4
36	Separating Dipolar and Chemical Exchange Magnetization Transfer Processes in ¹ H-CEST. <i>Angewandte Chemie</i> , 2017, 129, 6218-6221.	1.6	2

#	ARTICLE	IF	CITATIONS
37	Measuring radiofrequency fields in NMR spectroscopy using offset-dependent nutation profiles. Journal of Magnetic Resonance, 2021, 330, 107032.	1.2	2
38	Elucidating the mechanisms underlying protein conformational switching using NMR spectroscopy. Journal of Magnetic Resonance Open, 2022, 10-11, 100034.	0.5	2
39	Structure and Carbohydrate Recognition by the Nonmitogenic Lectin Horcolin. Biochemistry, 2022, 61, 464-478.	1.2	2