

Thomas Reid Alderson

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

939
citations

471509

17
h-index

713466

21
g-index

28
all docs

28
docs citations

28
times ranked

1347
citing authors

#	ARTICLE	IF	CITATIONS
1	NMR spectroscopy captures the essential role of dynamics in regulating biomolecular function. <i>Cell</i> , 2021, 184, 577-595.	28.9	103
2	Local unfolding of the HSP27 monomer regulates chaperone activity. <i>Nature Communications</i> , 2019, 10, 1068.	12.8	93
3	Dynamical Structures of Hsp70 and Hsp70-Hsp40 Complexes. <i>Structure</i> , 2016, 24, 1014-1030.	3.3	91
4	Unveiling invisible protein states with NMR spectroscopy. <i>Current Opinion in Structural Biology</i> , 2020, 60, 39-49.	5.7	73
5	Study of protein folding under native conditions by rapidly switching the hydrostatic pressure inside an NMR sample cell. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4169-E4178.	7.1	69
6	Biophysical characterization of α -synuclein and its controversial structure. <i>Intrinsically Disordered Proteins</i> , 2013, 1, e26255.	1.9	59
7	HspB1 phosphorylation regulates its intramolecular dynamics and mechanosensitive molecular chaperone interaction with filamin C. <i>Science Advances</i> , 2019, 5, eaav8421.	10.3	52
8	Propensity for <i>cis</i> -Proline Formation in Unfolded Proteins. <i>ChemBioChem</i> , 2018, 19, 37-42.	2.6	51
9	Automatic Assignment of Methyl-NMR Spectra of Supramolecular Machines Using Graph Theory. <i>Journal of the American Chemical Society</i> , 2017, 139, 9523-9533.	13.7	48
10	Tangled web of interactions among proteins involved in iron-sulfur cluster assembly as unraveled by NMR, SAXS, chemical crosslinking, and functional studies. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 1416-1428.	4.1	32
11	Automatic structure-based NMR methyl resonance assignment in large proteins. <i>Nature Communications</i> , 2019, 10, 4922.	12.8	30
12	Monitoring Hydrogen Exchange During Protein Folding by Fast Pressure Jump NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 11036-11039.	13.7	29
13	Nucleotide-Dependent Interactions within a Specialized Hsp70/Hsp40 Complex Involved in Fe-S Cluster Biogenesis. <i>Journal of the American Chemical Society</i> , 2014, 136, 11586-11589.	13.7	25
14	The Specialized Hsp70 (HscA) Interdomain Linker Binds to Its Nucleotide-Binding Domain and Stimulates ATP Hydrolysis in Both <i>cis</i> and <i>trans</i> Configurations. <i>Biochemistry</i> , 2014, 53, 7148-7159.	2.5	24
15	Proline isomerization in the C-terminal region of HSP27. <i>Cell Stress and Chaperones</i> , 2017, 22, 639-651.	2.9	24
16	Automated assignment of methyl NMR spectra from large proteins. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2020, 118-119, 54-73.	7.5	23
17	Conditional Disorder in Small Heat-shock Proteins. <i>Journal of Molecular Biology</i> , 2020, 432, 3033-3049.	4.2	21
18	Monitoring ¹⁵ N Chemical Shifts During Protein Folding by Pressure-Jump NMR. <i>Journal of the American Chemical Society</i> , 2018, 140, 8096-8099.	13.7	20

#	ARTICLE	IF	CITATIONS
19	A weakened interface in the P182L variant of HSP27 associated with severe Charcotâ€Marieâ€Tooth neuropathy causes aberrant binding to interacting proteins. EMBO Journal, 2021, 40, e103811.	7.8	14
20	Disorder in the court. Nature, 2016, 530, 38-39.	27.8	12
21	Protein structural changes characterized by high-pressure, pulsed field gradient diffusion NMR spectroscopy. Journal of Magnetic Resonance, 2020, 312, 106701.	2.1	8