

Christopher A Waudby

List of Publications by Year in descending order

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53
papers

4,294
citations

236925

25
h-index

197818

49
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64
all docs

64
docs citations

64
times ranked

5854
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermodynamics of co-translational folding and ribosome-nascent chain interactions. <i>Current Opinion in Structural Biology</i> , 2022, 74, 102357.	5.7	9
2	Distinct dissociation rates of murine and human norovirus P-domain dimers suggest a role of dimer stability in virus-host interactions. <i>Communications Biology</i> , 2022, 5, .	4.4	4
3	Nascent chain dynamics and ribosome interactions within folded ribosome-nascent chain complexes observed by NMR spectroscopy. <i>Chemical Science</i> , 2021, 12, 13120-13126.	7.4	8
4	Optimal design of adaptively sampled NMR experiments for measurement of methyl group dynamics with application to a ribosome-nascent chain complex. <i>Journal of Magnetic Resonance</i> , 2021, 326, 106937.	2.1	12
5	From Selection to Instruction and Back: Competing Conformational Selection and Induced Fit Pathways in Abiotic Hosts. <i>Angewandte Chemie</i> , 2021, 133, 20095-20101.	2.0	4
6	From Selection to Instruction and Back: Competing Conformational Selection and Induced Fit Pathways in Abiotic Hosts. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19942-19948.	13.8	18
7	Interactions between nascent proteins and the ribosome surface inhibit co-translational folding. <i>Nature Chemistry</i> , 2021, 13, 1214-1220.	13.6	27
8	Analysis of conformational exchange processes using methyl-TROSY-based Hahn echo measurements of quadruple-quantum relaxation. <i>Magnetic Resonance</i> , 2021, 2, 777-793.	1.9	1
9	Nascent chains can form co-translational folding intermediates that promote post-translational folding outcomes in a disease-causing protein. <i>Nature Communications</i> , 2021, 12, 6447.	12.8	22
10	Common sequence motifs of nascent chains engage the ribosome surface and trigger factor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	13
11	Two-dimensional NMR lineshape analysis of single, multiple, zero and double quantum correlation experiments. <i>Journal of Biomolecular NMR</i> , 2020, 74, 95-109.	2.8	15
12	High-resolution ex vivo NMR spectroscopy of human Z ¹ -antitrypsin. <i>Nature Communications</i> , 2020, 11, 6371.	12.8	15
13	Dynamics of Ligand Binding to a Rigid Glycosidase**. <i>Angewandte Chemie</i> , 2020, 132, 20689-20695.	2.0	0
14	Dynamics of Ligand Binding to a Rigid Glycosidase**. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20508-20514.	13.8	4
15	Rapid Quantification of Protein-Ligand Binding via ¹⁹ F NMR Lineshape Analysis. <i>Biophysical Journal</i> , 2020, 118, 2537-2548.	0.5	34
16	NMR Lineshape Analysis of Intrinsically Disordered Protein Interactions. <i>Methods in Molecular Biology</i> , 2020, 2141, 477-504.	0.9	8
17	Binding of Monovalent and Bivalent Ligands by Transthyretin Causes Different Short- and Long-Distance Conformational Changes. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 8274-8283.	6.4	25
18	Nature and Regulation of Protein Folding on the Ribosome. <i>Trends in Biochemical Sciences</i> , 2019, 44, 914-926.	7.5	97

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19	Probing the dynamic stalk region of the ribosome using solution NMR. <i>Scientific Reports</i> , 2019, 9, 13528.	3.3	10
20	Cross-peaks in Simple Two-Dimensional NMR Experiments from Chemical Exchange of Transverse Magnetisation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8784-8788.	13.8	10
21	Cross-peaks in Simple Two-Dimensional NMR Experiments from Chemical Exchange of Transverse Magnetisation. <i>Angewandte Chemie</i> , 2019, 131, 8876-8880.	2.0	2
22	Structures and Dynamics of Protein Folding on the Ribosome by NMR Spectroscopy. <i>Biophysical Journal</i> , 2018, 114, 414a.	0.5	0
23	Systematic mapping of free energy landscapes of a growing filamin domain during biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9744-9749.	7.1	39
24	Structural Investigation of an Immunoglobulin Domain on the Ribosome using NMR Spectroscopy. <i>Biophysical Journal</i> , 2017, 112, 41a.	0.5	0
25	Application of Lysine-specific Labeling to Detect Transient Interactions Present During Human Lysozyme Amyloid Fibril Formation. <i>Scientific Reports</i> , 2017, 7, 15018.	3.3	6
26	Structural characterization of the interaction of $\hat{1}\pm$ -synuclein nascent chains with the ribosomal surface and trigger factor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5012-5017.	7.1	54
27	A strategy for co-translational folding studies of ribosome-bound nascent chain complexes using NMR spectroscopy. <i>Nature Protocols</i> , 2016, 11, 1492-1507.	12.0	39
28	Two-Dimensional NMR Lineshape Analysis. <i>Scientific Reports</i> , 2016, 6, 24826.	3.3	161
29	D25V apolipoprotein C-III variant causes dominant hereditary systemic amyloidosis and confers cardiovascular protective lipoprotein profile. <i>Nature Communications</i> , 2016, 7, 10353.	12.8	50
30	A structural ensemble of a ribosome-nascent chain complex during cotranslational protein folding. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 278-285.	8.2	135
31	The H50Q Mutation Induces a 10-fold Decrease in the Solubility of $\hat{1}\pm$ -Synuclein. <i>Journal of Biological Chemistry</i> , 2015, 290, 2395-2404.	3.4	65
32	Increasing the sensitivity of NMR diffusion measurements by paramagnetic longitudinal relaxation enhancement, with application to ribosome-nascent chain complexes. <i>Journal of Biomolecular NMR</i> , 2015, 63, 151-163.	2.8	10
33	Structural investigation of the folding of an immunoglobulin domain on the ribosome using NMR Spectroscopy (LB197). <i>FASEB Journal</i> , 2014, 28, LB197.	0.5	0
34	Hsp90 Inhibits $\hat{1}\pm$ -Synuclein Aggregation by Interacting with Soluble Oligomers. <i>Journal of Molecular Biology</i> , 2013, 425, 4614-4628.	4.2	104
35	Atomic structure and hierarchical assembly of a cross- $\hat{1}^2$ amyloid fibril. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5468-5473.	7.1	479
36	Protein folding on the ribosome studied using NMR spectroscopy. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2013, 74, 57-75.	7.5	35

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37	In-Cell NMR Characterization of the Secondary Structure Populations of a Disordered Conformation of α -Synuclein within E. coli Cells. PLoS ONE, 2013, 8, e72286.	2.5	89
38	Rapid Distinction of Intracellular and Extracellular Proteins Using NMR Diffusion Measurements. Journal of the American Chemical Society, 2012, 134, 11312-11315.	13.7	35
39	An analysis of NMR sensitivity enhancements obtained using non-uniform weighted sampling, and the application to protein NMR. Journal of Magnetic Resonance, 2012, 219, 46-52.	2.1	21
40	Structural Dynamics Associated with Intermediate Formation in an Archetypal Conformational Disease. Structure, 2012, 20, 504-512.	3.3	33
41	Binding of the Molecular Chaperone α -Crystallin to α ² Amyloid Fibrils Inhibits Fibril Elongation. Biophysical Journal, 2011, 101, 1681-1689.	0.5	143
42	Metastability of Native Proteins and the Phenomenon of Amyloid Formation. Journal of the American Chemical Society, 2011, 133, 14160-14163.	13.7	369
43	GPU accelerated Monte Carlo simulation of pulsed-field gradient NMR experiments. Journal of Magnetic Resonance, 2011, 211, 67-73.	2.1	18
44	Inversion of the Balance between Hydrophobic and Hydrogen Bonding Interactions in Protein Folding and Aggregation. PLoS Computational Biology, 2011, 7, e1002169.	3.2	86
45	Solution-State Nuclear Magnetic Resonance Spectroscopy and Protein Folding. Methods in Molecular Biology, 2011, 752, 97-120.	0.9	2
46	Mechanosensitive Self-Replication Driven by Self-Organization. Science, 2010, 327, 1502-1506.	12.6	465
47	The Interaction of α -Crystallin with Mature α -Synuclein Amyloid Fibrils Inhibits Their Elongation. Biophysical Journal, 2010, 98, 843-851.	0.5	136
48	Structure and Properties of a Complex of α -Synuclein and a Single-Domain Camelid Antibody. Journal of Molecular Biology, 2010, 402, 326-343.	4.2	164
49	Glial Innate Immunity Generated by Non-Aggregated Alpha-Synuclein in Mouse: Differences between Wild-type and Parkinson's Disease-Linked Mutants. PLoS ONE, 2010, 5, e13481.	2.5	89
50	Position-Dependent Electrostatic Protection against Protein Aggregation. ChemBioChem, 2009, 10, 1309-1312.	2.6	47
51	On the Mechanism of Nonspecific Inhibitors of Protein Aggregation: Dissecting the Interactions of α -Synuclein with Congo Red and Lacmoid. Biochemistry, 2009, 48, 8322-8334.	2.5	88
52	An Analytical Solution to the Kinetics of Breakable Filament Assembly. Science, 2009, 326, 1533-1537.	12.6	970
53	Chemical documents: machine understanding and automated information extraction. Organic and Biomolecular Chemistry, 2004, 2, 3294.	2.8	21