

# Associaç o prof Jane R Allison

## List of Publications by Year in descending order

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52  
papers

1,574  
citations

361045

20  
h-index

315357

38  
g-index

53  
all docs

53  
docs citations

53  
times ranked

2145  
citing authors

#	ARTICLE	IF	CITATIONS
1	On developing coarse-grained models for biomolecular simulation: a review. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 12423.	1.3	216
2	Determination of the Free Energy Landscape of $\hat{1}\pm$ -Synuclein Using Spin Label Nuclear Magnetic Resonance Measurements. <i>Journal of the American Chemical Society</i> , 2009, 131, 18314-18326.	6.6	187
3	GROMOS++ Software for the Analysis of Biomolecular Simulation Trajectories. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 3379-3390.	2.3	180
4	New functionalities in the GROMOS biomolecular simulation software. <i>Journal of Computational Chemistry</i> , 2012, 33, 340-353.	1.5	98
5	On the Calculation of Acyl Chain Order Parameters from Lipid Simulations. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 5683-5696.	2.3	92
6	A Relationship between the Transient Structure in the Monomeric State and the Aggregation Propensities of $\hat{1}\pm$ -Synuclein and $\hat{1}^2$ -Synuclein. <i>Biochemistry</i> , 2014, 53, 7170-7183.	1.2	50
7	Molecular Dynamics Simulation of $\hat{1}^2$ -Lactoglobulin at Different Oil/Water Interfaces. <i>Biomacromolecules</i> , 2016, 17, 1572-1581.	2.6	50
8	Molecular Dynamics Simulation of Proteins. <i>Methods in Molecular Biology</i> , 2020, 2073, 311-327.	0.4	47
9	Computational methods for exploring protein conformations. <i>Biochemical Society Transactions</i> , 2020, 48, 1707-1724.	1.6	43
10	Biomolecular structure refinement using the GROMOS simulation software. <i>Journal of Biomolecular NMR</i> , 2011, 51, 265-281.	1.6	41
11	Using simulation to interpret experimental data in terms of protein conformational ensembles. <i>Current Opinion in Structural Biology</i> , 2017, 43, 79-87.	2.6	38
12	Current Computer Modeling Cannot Explain Why Two Highly Similar Sequences Fold into Different Structures. <i>Biochemistry</i> , 2011, 50, 10965-10973.	1.2	33
13	Directed Evolution of a Model Primordial Enzyme Provides Insights into the Development of the Genetic Code. <i>PLoS Genetics</i> , 2013, 9, e1003187.	1.5	27
14	Chromosome conformation maps in fission yeast reveal cell cycle dependent sub nuclear structure. <i>Nucleic Acids Research</i> , 2014, 42, 12585-12599.	6.5	26
15	A Method to Explore Protein Side Chain Conformational Variability Using Experimental Data. <i>ChemPhysChem</i> , 2009, 10, 3213-3228.	1.0	25
16	Deciphering $\hat{1}^2$ -Lactoglobulin Interactions at an Oil/Water Interface: A Molecular Dynamics Study. <i>Biomacromolecules</i> , 2015, 16, 1855-1861.	2.6	25
17	Deriving Structural Information from Experimentally Measured Data on Biomolecules. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15990-16010.	7.2	24
18	The Sodium Sialic Acid Symporter From <i>Staphylococcus aureus</i> Has Altered Substrate Specificity. <i>Frontiers in Chemistry</i> , 2018, 6, 233.	1.8	24

#	ARTICLE	IF	CITATIONS
19	Peppy: A virtual reality environment for exploring the principles of polypeptide structure. <i>Protein Science</i> , 2020, 29, 157-168.	3.1	23
20	On the calculation of $^3J_{\alpha\beta\gamma}$ -coupling constants for side chains in proteins. <i>Journal of Biomolecular NMR</i> , 2012, 53, 223-246.	1.6	22
21	Flexibility of the petunia strigolactone receptor DAD2 promotes its interaction with signaling partners. <i>Journal of Biological Chemistry</i> , 2020, 295, 4181-4193.	1.6	19
22	Molecular Dynamics Simulation of the Interaction of Two Linear Battacin Analogs with Model Gram-Positive and Gram-Negative Bacterial Cell Membranes. <i>ACS Omega</i> , 2021, 6, 388-400.	1.6	19
23	Implicit Solvation Parameters Derived from Explicit Water Forces in Large-Scale Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 2391-2403.	2.3	18
24	Coarse-grained models for the solvents dimethyl sulfoxide, chloroform, and methanol. <i>Journal of Chemical Physics</i> , 2012, 136, 054505.	1.2	17
25	Site-specific glycation of A $\beta$ 1-42 affects fibril formation and is neurotoxic. <i>Journal of Biological Chemistry</i> , 2019, 294, 8806-8818.	1.6	16
26	Investigation of Stability and Disulfide Bond Shuffling of Lipid Transfer Proteins by Molecular Dynamics Simulation. <i>Biochemistry</i> , 2010, 49, 6916-6927.	1.2	15
27	A diffusion model for the coordination of DNA replication in <i>Schizosaccharomyces pombe</i> . <i>Scientific Reports</i> , 2016, 6, 18757.	1.6	15
28	CLIPping on lipids to generate antibacterial lipopeptides. <i>Chemical Science</i> , 2020, 11, 5759-5765.	3.7	15
29	A Refined, Efficient Mean Solvation Force Model that Includes the Interior Volume Contribution. <i>Journal of Physical Chemistry B</i> , 2011, 115, 4547-4557.	1.2	14
30	A comparison of the different helices adopted by $\alpha$ - and $\beta$ -peptides suggests different reasons for their stability. <i>Protein Science</i> , 2010, 19, 2186-2195.	3.1	13
31	Probing the Structure and Dynamics of Proteins by Combining Molecular Dynamics Simulations and Experimental NMR Data. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 3430-3444.	2.3	13
32	Inhibition of Arabidopsis growth by the allelopathic compound azetidine-2-carboxylate is due to the low amino acid specificity of cytosolic polylysine synthetase. <i>Plant Journal</i> , 2016, 88, 236-246.	2.8	11
33	Assessing and refining molecular dynamics simulations of proteins with nuclear magnetic resonance data. <i>Biophysical Reviews</i> , 2012, 4, 189-203.	1.5	9
34	Multiple binding modes for palmitate to barley lipid transfer protein facilitated by the presence of proline 12. <i>Protein Science</i> , 2013, 22, 56-64.	3.1	9
35	Positive Selection or Free to Vary? Assessing the Functional Significance of Sequence Change Using Molecular Dynamics. <i>PLoS ONE</i> , 2016, 11, e0147619.	1.1	9
36	Relative Free Enthalpies for Point Mutations in Two Proteins with Highly Similar Sequences but Different Folds. <i>Biochemistry</i> , 2013, 52, 4962-4970.	1.2	8

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37	Comment on "A Tensor-Free Method for the Structural and Dynamic Refinement of Proteins using Residual Dipolar Couplings", Journal of Physical Chemistry B, 2015, 119, 8223-8224.	1.2	8
38	Structural Phylogenetics with Confidence. Molecular Biology and Evolution, 2020, 37, 2711-2726.	3.5	8
39	Bestimmung von Strukturinformation aus experimentellen Messdaten für Biomoleküle. Angewandte Chemie, 2016, 128, 16222-16244.	1.6	7
40	Multiscale Modeling and Simulation Approaches to Lipid-Protein Interactions. Methods in Molecular Biology, 2019, 2003, 1-30.	0.4	7
41	Automated simultaneous assignment of bond orders and formal charges. Journal of Cheminformatics, 2019, 11, 18.	2.8	7
42	Computational Prediction of Amino Acids Governing Protein-Membrane Interaction for the PIP3 Cell Signaling System. Structure, 2019, 27, 371-380.e3.	1.6	7
43	Reply to "Comment on 'A Tensor-Free Method for the Structural and Dynamic Refinement of Proteins using Residual Dipolar Couplings'", Journal of Physical Chemistry B, 2015, 119, 8225-8226.	1.2	6
44	CherryPicker: An Algorithm for the Automated Parametrization of Large Biomolecules for Molecular Simulation. Frontiers in Chemistry, 2019, 7, 400.	1.8	6
45	Molecular Dynamics Simulations of Barley and Maize Lipid Transfer Proteins Show Different Ligand Binding Preferences in Agreement with Experimental Data. Biochemistry, 2013, 52, 5029-5038.	1.2	5
46	Fitting alignment tensor components to experimental RDCs, CSAs and RQCs. Journal of Biomolecular NMR, 2015, 62, 25-29.	1.6	5
47	Thermal adaptation in the honeybee ( <i>Apis mellifera</i> ) via changes to the structure of malate dehydrogenase. Journal of Experimental Biology, 2020, 223, .	0.8	5
48	The self-association and thermal denaturation of caprine and bovine $\beta^2$ -lactoglobulin. European Biophysics Journal, 2018, 47, 739-750.	1.2	4
49	Illustration of a computational pipeline for evaluating cyclodextrin host-guest complex formation through conformational capture of bullvalene. Journal of Chemical Physics, 2021, 154, 154105.	1.2	3
50	Characterisation of N-(Octadecyl)-1,8-naphthalimide Monolayer Compression Using Molecular Dynamics and Experimental Approaches. Chemistry - an Asian Journal, 2019, 14, 1221-1229.	1.7	2
51	Let the Powers Combine. Structure, 2016, 24, 5-6.	1.6	1
52	Block-restraining of residual dipolar couplings to allow fluctuating relative alignments of molecular subdomains. Progress in Biophysics and Molecular Biology, 2017, 128, 133-141.	1.4	0