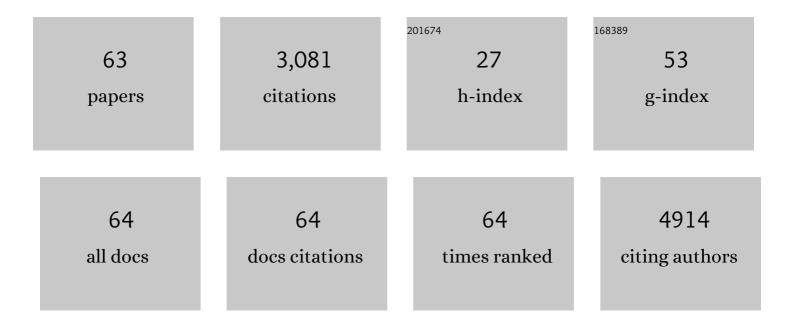
Patrick L Wintrode

List of Publications by Year in descending order

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DATRICKÂL WINTRODE

#	Article	IF	CITATIONS
1	Recommendations for performing, interpreting and reporting hydrogen deuterium exchange mass spectrometry (HDX-MS) experiments. Nature Methods, 2019, 16, 595-602.	19.0	452
2	How enzymes adapt: lessons from directed evolution. Trends in Biochemical Sciences, 2001, 26, 100-106.	7.5	351
3	Directed evolution study of temperature adaptation in a psychrophilic enzyme 1 1Edited by J. A. Wells. Journal of Molecular Biology, 2000, 297, 1015-1026.	4.2	243
4	beta-Sheet core of human prion protein amyloid fibrils as determined by hydrogen/deuterium exchange. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 1510-1515.	7.1	218
5	Thermodynamics of ubiquitin unfolding. Proteins: Structure, Function and Bioinformatics, 1994, 18, 246-253.	2.6	170
6	Cold Adaptation of a Mesophilic Subtilisin-like Protease by Laboratory Evolution. Journal of Biological Chemistry, 2000, 275, 31635-31640.	3.4	128
7	Protein Dynamics in a Family of Laboratory Evolved Thermophilic Enzymes. Journal of Molecular Biology, 2003, 327, 745-757.	4.2	96
8	Energetics of target peptide recognition by calmodulin: A calorimetric study. Journal of Molecular Biology, 1997, 266, 1050-1062.	4.2	93
9	Hydrogen/Deuterium Exchange-Mass Spectrometry: A Powerful Tool for Probing Protein Structure, Dynamics and Interactions. Current Medicinal Chemistry, 2007, 14, 2344-2358.	2.4	93
10	Conformational dynamics of a neurotransmitter:sodium symporter in a lipid bilayer. Proceedings of the United States of America, 2017, 114, E1786-E1795.	7.1	76
11	Folding mechanism of the metastable serpin <i>α</i> ₁ -antitrypsin. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4467-4472.	7.1	67
12	Crystal Structures of the Toll/Interleukin-1 Receptor (TIR) Domains from the Brucella Protein TcpB and Host Adaptor TIRAP Reveal Mechanisms of Molecular Mimicry. Journal of Biological Chemistry, 2014, 289, 669-679.	3.4	66
13	Successes and challenges in simulating the folding of large proteins. Journal of Biological Chemistry, 2020, 295, 15-33.	3.4	56
14	Effects of glycosylation on the stability and flexibility of a metastable protein: The human serpin $\hat{l}\pm 1$ -antitrypsin. International Journal of Mass Spectrometry, 2011, 302, 69-75.	1.5	54
15	Complementary Structural Mass Spectrometry Techniques Reveal Local Dynamics in Functionally Important Regions of a Metastable Serpin. Structure, 2008, 16, 38-51.	3.3	48
16	IL-1 Family Cytokines Use Distinct Molecular Mechanisms to Signal through Their Shared Co-receptor. Immunity, 2017, 47, 510-523.e4.	14.3	48
17	A Dimer Interface Mutation in Glyceraldehyde-3-Phosphate Dehydrogenase Regulates Its Binding to AU-rich RNA. Journal of Biological Chemistry, 2015, 290, 1770-1785.	3.4	47
18	The <i>Helicobacter pylori</i> adhesin protein HopQ exploits the dimer interface of human CEACAMs to facilitate translocation of the oncoprotein CagA. EMBO Journal, 2018, 37, .	7.8	47

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19	Common coding variant in <i>SERPINA1</i> increases the risk for large artery stroke. Proceedings of the United States of America, 2017, 114, 3613-3618.	7.1	46
20	Bacterial flagellar capping proteins adopt diverse oligomeric states. ELife, 2016, 5, .	6.0	46
21	Interlaboratory Comparison of Hydrogen–Deuterium Exchange Mass Spectrometry Measurements of the Fab Fragment of NISTmAb. Analytical Chemistry, 2019, 91, 7336-7345.	6.5	44
22	Allosteric Suppression of HIV-1 Reverse Transcriptase Structural Dynamics upon Inhibitor Binding. Biophysical Journal, 2011, 100, 144-153.	0.5	41
23	Multi-state Unfolding of the Alpha Subunit of Tryptophan Synthase, a TIM Barrel Protein: Insights into the Secondary Structure of the Stable Equilibrium Intermediates by Hydrogen Exchange Mass Spectrometry. Journal of Molecular Biology, 2004, 341, 241-253.	4.2	32
24	The Structural Basis of Serpin Polymerization Studied by Hydrogen/Deuterium Exchange and Mass Spectrometry. Journal of Biological Chemistry, 2008, 283, 30804-30811.	3.4	31
25	Serpin latency transition at atomic resolution. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15414-15419.	7.1	31
26	Solution Structural Dynamics of HIV-1 Reverse Transcriptase Heterodimer. Biochemistry, 2009, 48, 7646-7655.	2.5	30
27	Structure and dynamics of an α-fucosidase reveal a mechanism for highly efficient IgG transfucosylation. Nature Communications, 2020, 11, 6204.	12.8	29
28	Structure and Dynamics of FosA-Mediated Fosfomycin Resistance in Klebsiella pneumoniae and Escherichia coli. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	28
29	Structural energetics of barstar studied by differential scanning microcalorimetry. Protein Science, 1995, 4, 1528-1534.	7.6	27
30	An Obligatory Intermediate Controls the Folding of the α-Subunit of Tryptophan Synthase, a TIM Barrel Protein. Journal of Molecular Biology, 2005, 347, 911-919.	4.2	27
31	Molecular Basis of Broad Spectrum <i>N</i> -Glycan Specificity and Processing of Therapeutic IgG Monoclonal Antibodies by Endoglycosidase S2. ACS Central Science, 2019, 5, 524-538.	11.3	27
32	Early Hydrophobic Collapse of α1-Antitrypsin Facilitates Formation of a Metastable State: Insights from Oxidative Labeling and Mass Spectrometry. Journal of Molecular Biology, 2012, 423, 789-799.	4.2	24
33	Antigen-Induced Allosteric Changes in a Human IgG1 Fc Increase Low-Affinity FcÎ ³ Receptor Binding. Structure, 2020, 28, 516-527.e5.	3.3	23
34	Cooperative Unfolding of a Metastable Serpin to a Molten Globule Suggests a Link Between Functional and Folding Energy Landscapes. Journal of Molecular Biology, 2007, 371, 245-255.	4.2	22
35	Enhanced Molecular Mobility of Ordinarily Structured Regions Drives Polyglutamine Disease. Journal of Biological Chemistry, 2015, 290, 24190-24200.	3.4	22
36	Hydrogen/Deuterium Exchange Kinetics Demonstrate Long Range Allosteric Effects of Thumb Site 2 Inhibitors of Hepatitis C Viral RNA-dependent RNA Polymerase. Journal of Biological Chemistry, 2016, 291, 10078-10088.	3.4	22

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37	Identification of a Region in the N-Terminus of Escherichia coli Lon That Affects ATPase, Substrate Translocation and Proteolytic Activity. Journal of Molecular Biology, 2012, 418, 208-225.	4.2	21
38	All-Atom Simulations Reveal How Single-Point Mutations Promote Serpin Misfolding. Biophysical Journal, 2018, 114, 2083-2094.	0.5	19
39	The Z Mutation Alters the Global Structural Dynamics of $\hat{I}\pm 1$ -Antitrypsin. PLoS ONE, 2014, 9, e102617.	2.5	18
40	Ligand-induced allostery in the interaction of the <i>Pseudomonas aeruginosa</i> heme binding protein with heme oxygenase. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3421-3426.	7.1	18
41	Local Conformational Flexibility Provides a Basis for Facile Polymer Formation in Human Neuroserpin. Biophysical Journal, 2011, 101, 1758-1765.	0.5	13
42	Does Changing the Predicted Dynamics of a Phospholipase C Alter Activity and Membrane Binding?. Biophysical Journal, 2013, 104, 185-195.	0.5	11
43	Imatinib binding to human c-Src is coupled to inter-domain allostery and suggests a novel kinase inhibition strategy. Scientific Reports, 2016, 6, 30832.	3.3	11
44	Small-Molecule Inhibitor of FosA Expands Fosfomycin Activity to Multidrug-Resistant Gram-Negative Pathogens. Antimicrobial Agents and Chemotherapy, 2019, 63, .	3.2	11
45	Monitoring dendrimer conformational transition using 19 F and 1 H 2 O NMR. Magnetic Resonance in Chemistry, 2019, 57, 861-872.	1.9	10
46	A temperature-dependent conformational shift in p38α MAPK substrate–binding region associated with changes in substrate phosphorylation profile. Journal of Biological Chemistry, 2019, 294, 12624-12637.	3.4	9
47	Conformational transition of a non-associative fluorinated amphiphile in aqueous solution. II. Conformational transition <i>vs.</i> supramolecular assembly. RSC Advances, 2019, 9, 1956-1966.	3.6	9
48	Modeling the native ensemble of PhuS using enhanced sampling MD and HDX-ensemble reweighting. Biophysical Journal, 2021, 120, 5141-5157.	0.5	7
49	Probing Serpin Conformational Change Using Mass Spectrometry and Related Methods. Methods in Enzymology, 2011, 501, 325-350.	1.0	5
50	Mass spectrometry in structural biology. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 1187.	2.3	3
51	Hydrogen-Deuterium Exchange Mass Spectrometry (HDX-MS) Centroid Data Measured between 3.6 °C and 25.4 °C for the Fab Fragment of NISTmAb. Journal of Research of the National Institute of Standards and Technology, 2019, 124, 1-7.	1.2	3
52	Interpreting hydrogen-deuterium exchange experiments with molecular simulations: Tutorials and applications of the HDXer ensemble reweighting software [Article v1.0]. Living Journal of Computational Molecular Science, 2022, 3, .	6.4	3
53	Neurotransmitter Transporter Conformational Dynamics using HDX-MS and Molecular Dynamics Simulation. Biophysical Journal, 2018, 114, 207a.	0.5	2
54	Characterization of interaction between blood coagulation factor <scp>VIII</scp> and <scp>LRP1</scp> suggests dynamic binding by alternating complex contacts. Journal of Thrombosis and Haemostasis, 0, , .	3.8	2

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55	A structure and function relationship study to identify the impact of the R721G mutation in the human mitochondrial lon protease. Archives of Biochemistry and Biophysics, 2021, 710, 108983.	3.0	1
56	Structural Changes in Monomeric HIV-RT Upon Binding the NNRTI Efavirenz. Biophysical Journal, 2009, 96, 446a.	0.5	0
57	HIV-1 Reverse Transcriptase Monomers Adopt Multiple Conformations inÂSolution. Biophysical Journal, 2012, 102, 46a-47a.	0.5	0
58	Anchoring of PI-PLC to DMPC Bilayers Involves Specific Cation-PI Interactions. Biophysical Journal, 2012, 102, 78a-79a.	0.5	0
59	Cation-PI Interactions as Specific Anchors for B. Thurigiensis Phosphoinositol-Specific Phospholipase-C Binding to Phosphatidylcholine Bilayer. Biophysical Journal, 2013, 104, 536a.	0.5	0
60	Remodeling KRAS. Structure, 2017, 25, 1323-1324.	3.3	0
61	Determination of the Mechanism of RNA Regulation by CPSF30 Utilizing Both Biophysical and Structural Approaches. Biophysical Journal, 2019, 116, 503a.	0.5	0
62	HDX-MS Guided Ensemble Reweighting Approach Characterizes a Large Conformational Rearrangement in the Cytoplasmic Heme Binding Protein PhuS. Biophysical Journal, 2021, 120, 127a.	0.5	0
63	Thumb II Site Inhibitor Allosterically Suppresses the Dynamics of HCV NS5B RNAâ€Dependent RNA Polymerase. FASEB Journal, 2015, 29, LB81.	0.5	0