

Patrick L Wintrode

List of Publications by Year in descending order

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63
papers

3,081
citations

201674

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168389

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times ranked

4914
citing authors

#	ARTICLE	IF	CITATIONS
1	Interpreting hydrogen-deuterium exchange experiments with molecular simulations: Tutorials and applications of the HDXer ensemble reweighting software [Article v1.0]. <i>Living Journal of Computational Molecular Science</i> , 2022, 3, .	6.4	3
2	HDX-MS Guided Ensemble Reweighting Approach Characterizes a Large Conformational Rearrangement in the Cytoplasmic Heme Binding Protein PhuS. <i>Biophysical Journal</i> , 2021, 120, 127a.	0.5	0
3	A structure and function relationship study to identify the impact of the R721G mutation in the human mitochondrial lon protease. <i>Archives of Biochemistry and Biophysics</i> , 2021, 710, 108983.	3.0	1
4	Modeling the native ensemble of PhuS using enhanced sampling MD and HDX-ensemble reweighting. <i>Biophysical Journal</i> , 2021, 120, 5141-5157.	0.5	7
5	Successes and challenges in simulating the folding of large proteins. <i>Journal of Biological Chemistry</i> , 2020, 295, 15-33.	3.4	56
6	Structure and dynamics of an α -mannosidase reveal a mechanism for highly efficient IgG transufucosylation. <i>Nature Communications</i> , 2020, 11, 6204.	12.8	29
7	Antigen-Induced Allosteric Changes in a Human IgG1 Fc Increase Low-Affinity Fc γ 3 Receptor Binding. <i>Structure</i> , 2020, 28, 516-527.e5.	3.3	23
8	Recommendations for performing, interpreting and reporting hydrogen deuterium exchange mass spectrometry (HDX-MS) experiments. <i>Nature Methods</i> , 2019, 16, 595-602.	19.0	452
9	Hydrogen-Deuterium Exchange Mass Spectrometry (HDX-MS) Centroid Data Measured between 3.6 $\text{\AA}^\circ\text{C}$ and 25.4 $\text{\AA}^\circ\text{C}$ for the Fab Fragment of NISTmAb. <i>Journal of Research of the National Institute of Standards and Technology</i> , 2019, 124, 1-7.	1.2	3
10	A temperature-dependent conformational shift in p38 β MAPK substrate α binding region associated with changes in substrate phosphorylation profile. <i>Journal of Biological Chemistry</i> , 2019, 294, 12624-12637.	3.4	9
11	Conformational transition of a non-associative fluorinated amphiphile in aqueous solution. II. Conformational transition α vs. β supramolecular assembly. <i>RSC Advances</i> , 2019, 9, 1956-1966.	3.6	9
12	Interlaboratory Comparison of Hydrogen α -Deuterium Exchange Mass Spectrometry Measurements of the Fab Fragment of NISTmAb. <i>Analytical Chemistry</i> , 2019, 91, 7336-7345.	6.5	44
13	Monitoring dendrimer conformational transition using ^{19}F and ^1H ^2O NMR. <i>Magnetic Resonance in Chemistry</i> , 2019, 57, 861-872.	1.9	10
14	Molecular Basis of Broad Spectrum α -Glycan Specificity and Processing of Therapeutic IgG Monoclonal Antibodies by Endoglycosidase S2. <i>ACS Central Science</i> , 2019, 5, 524-538.	11.3	27
15	Determination of the Mechanism of RNA Regulation by CPSF30 Utilizing Both Biophysical and Structural Approaches. <i>Biophysical Journal</i> , 2019, 116, 503a.	0.5	0
16	Small-Molecule Inhibitor of FosA Expands Fosfomycin Activity to Multidrug-Resistant Gram-Negative Pathogens. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	3.2	11
17	The α <i>Helicobacter pylori</i> adhesin protein HopQ exploits the dimer interface of human CEACAMs to facilitate translocation of the oncoprotein CagA. <i>EMBO Journal</i> , 2018, 37, .	7.8	47
18	Neurotransmitter Transporter Conformational Dynamics using HDX-MS and Molecular Dynamics Simulation. <i>Biophysical Journal</i> , 2018, 114, 207a.	0.5	2

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19	All-Atom Simulations Reveal How Single-Point Mutations Promote Serpin Misfolding. <i>Biophysical Journal</i> , 2018, 114, 2083-2094.	0.5	19
20	Conformational dynamics of a neurotransmitter:sodium symporter in a lipid bilayer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E1786-E1795.	7.1	76
21	Common coding variant in <i>SERPINA1</i> increases the risk for large artery stroke. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3613-3618.	7.1	46
22	Ligand-induced allostery in the interaction of the <i>Pseudomonas aeruginosa</i> heme binding protein with heme oxygenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3421-3426.	7.1	18
23	IL-1 Family Cytokines Use Distinct Molecular Mechanisms to Signal through Their Shared Co-receptor. <i>Immunity</i> , 2017, 47, 510-523.e4.	14.3	48
24	Remodeling KRAS. <i>Structure</i> , 2017, 25, 1323-1324.	3.3	0
25	Structure and Dynamics of FosA-Mediated Fosfomycin Resistance in <i>Klebsiella pneumoniae</i> and <i>Escherichia coli</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	28
26	Imatinib binding to human c-Src is coupled to inter-domain allostery and suggests a novel kinase inhibition strategy. <i>Scientific Reports</i> , 2016, 6, 30832.	3.3	11
27	Hydrogen/Deuterium Exchange Kinetics Demonstrate Long Range Allosteric Effects of Thumb Site 2 Inhibitors of Hepatitis C Viral RNA-dependent RNA Polymerase. <i>Journal of Biological Chemistry</i> , 2016, 291, 10078-10088.	3.4	22
28	Bacterial flagellar capping proteins adopt diverse oligomeric states. <i>ELife</i> , 2016, 5, .	6.0	46
29	A Dimer Interface Mutation in Glyceraldehyde-3-Phosphate Dehydrogenase Regulates Its Binding to AU-rich RNA. <i>Journal of Biological Chemistry</i> , 2015, 290, 1770-1785.	3.4	47
30	Enhanced Molecular Mobility of Ordinarily Structured Regions Drives Polyglutamine Disease. <i>Journal of Biological Chemistry</i> , 2015, 290, 24190-24200.	3.4	22
31	Thumb II Site Inhibitor Allosterically Suppresses the Dynamics of HCV NS5B RNA-Dependent RNA Polymerase. <i>FASEB Journal</i> , 2015, 29, LB81.	0.5	0
32	The Z Mutation Alters the Global Structural Dynamics of α 1-Antitrypsin. <i>PLoS ONE</i> , 2014, 9, e102617.	2.5	18
33	Crystal Structures of the Toll/Interleukin-1 Receptor (TIR) Domains from the <i>Brucella</i> Protein TcpB and Host Adaptor TIRAP Reveal Mechanisms of Molecular Mimicry. <i>Journal of Biological Chemistry</i> , 2014, 289, 669-679.	3.4	66
34	Serpin latency transition at atomic resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15414-15419.	7.1	31
35	Cation-PI Interactions as Specific Anchors for <i>B. Thuringiensis</i> Phosphoinositol-Specific Phospholipase-C Binding to Phosphatidylcholine Bilayer. <i>Biophysical Journal</i> , 2013, 104, 536a.	0.5	0
36	Mass spectrometry in structural biology. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013, 1834, 1187.	2.3	3

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37	Does Changing the Predicted Dynamics of a Phospholipase C Alter Activity and Membrane Binding?. <i>Biophysical Journal</i> , 2013, 104, 185-195.	0.5	11
38	Identification of a Region in the N-Terminus of Escherichia coli Lon That Affects ATPase, Substrate Translocation and Proteolytic Activity. <i>Journal of Molecular Biology</i> , 2012, 418, 208-225.	4.2	21
39	HIV-1 Reverse Transcriptase Monomers Adopt Multiple Conformations in Solution. <i>Biophysical Journal</i> , 2012, 102, 46a-47a.	0.5	0
40	Anchoring of PI-PLC to DMPC Bilayers Involves Specific Cation-PI Interactions. <i>Biophysical Journal</i> , 2012, 102, 78a-79a.	0.5	0
41	Early Hydrophobic Collapse of α 1-Antitrypsin Facilitates Formation of a Metastable State: Insights from Oxidative Labeling and Mass Spectrometry. <i>Journal of Molecular Biology</i> , 2012, 423, 789-799.	4.2	24
42	Folding mechanism of the metastable serpin α 1-antitrypsin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 4467-4472.	7.1	67
43	Allosteric Suppression of HIV-1 Reverse Transcriptase Structural Dynamics upon Inhibitor Binding. <i>Biophysical Journal</i> , 2011, 100, 144-153.	0.5	41
44	Local Conformational Flexibility Provides a Basis for Facile Polymer Formation in Human Neuroserpin. <i>Biophysical Journal</i> , 2011, 101, 1758-1765.	0.5	13
45	Effects of glycosylation on the stability and flexibility of a metastable protein: The human serpin α 1-antitrypsin. <i>International Journal of Mass Spectrometry</i> , 2011, 302, 69-75.	1.5	54
46	Probing Serpin Conformational Change Using Mass Spectrometry and Related Methods. <i>Methods in Enzymology</i> , 2011, 501, 325-350.	1.0	5
47	Solution Structural Dynamics of HIV-1 Reverse Transcriptase Heterodimer. <i>Biochemistry</i> , 2009, 48, 7646-7655.	2.5	30
48	Structural Changes in Monomeric HIV-RT Upon Binding the NNRTI Efavirenz. <i>Biophysical Journal</i> , 2009, 96, 446a.	0.5	0
49	Complementary Structural Mass Spectrometry Techniques Reveal Local Dynamics in Functionally Important Regions of a Metastable Serpin. <i>Structure</i> , 2008, 16, 38-51.	3.3	48
50	The Structural Basis of Serpin Polymerization Studied by Hydrogen/Deuterium Exchange and Mass Spectrometry. <i>Journal of Biological Chemistry</i> , 2008, 283, 30804-30811.	3.4	31
51	beta-Sheet core of human prion protein amyloid fibrils as determined by hydrogen/deuterium exchange. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 1510-1515.	7.1	218
52	Hydrogen/Deuterium Exchange-Mass Spectrometry: A Powerful Tool for Probing Protein Structure, Dynamics and Interactions. <i>Current Medicinal Chemistry</i> , 2007, 14, 2344-2358.	2.4	93
53	Cooperative Unfolding of a Metastable Serpin to a Molten Globule Suggests a Link Between Functional and Folding Energy Landscapes. <i>Journal of Molecular Biology</i> , 2007, 371, 245-255.	4.2	22
54	An Obligatory Intermediate Controls the Folding of the α -Subunit of Tryptophan Synthase, a TIM Barrel Protein. <i>Journal of Molecular Biology</i> , 2005, 347, 911-919.	4.2	27

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55	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. <i>Journal of Molecular Biology</i> , 2004, 341, 241-253.	4.2	32
56	Protein Dynamics in a Family of Laboratory Evolved Thermophilic Enzymes. <i>Journal of Molecular Biology</i> , 2003, 327, 745-757.	4.2	96
57	How enzymes adapt: lessons from directed evolution. <i>Trends in Biochemical Sciences</i> , 2001, 26, 100-106.	7.5	351
58	Cold Adaptation of a Mesophilic Subtilisin-like Protease by Laboratory Evolution. <i>Journal of Biological Chemistry</i> , 2000, 275, 31635-31640.	3.4	128
59	Directed evolution study of temperature adaptation in a psychrophilic enzyme 1 Edited by J. A. Wells. <i>Journal of Molecular Biology</i> , 2000, 297, 1015-1026.	4.2	243
60	Energetics of target peptide recognition by calmodulin: A calorimetric study. <i>Journal of Molecular Biology</i> , 1997, 266, 1050-1062.	4.2	93
61	Structural energetics of barstar studied by differential scanning microcalorimetry. <i>Protein Science</i> , 1995, 4, 1528-1534.	7.6	27
62	Thermodynamics of ubiquitin unfolding. <i>Proteins: Structure, Function and Bioinformatics</i> , 1994, 18, 246-253.	2.6	170
63	Characterization of interaction between blood coagulation factor VIII and LRP1 suggests dynamic binding by alternating complex contacts. <i>Journal of Thrombosis and Haemostasis</i> , 0, , .	3.8	2