

# Wenwei Zheng

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45  
papers

2,652  
citations

26  
h-index

51  
g-index

55  
ext. papers

3,393  
ext. citations

6.7  
avg, IF

5.64  
L-index

#	Paper	IF	Citations
45	Balanced Protein-Water Interactions Improve Properties of Disordered Proteins and Non-Specific Protein Association. <i>Journal of Chemical Theory and Computation</i> , <b>2014</b> , 10, 5113-5124	6.4	409
44	Phosphorylation of the FUS low-complexity domain disrupts phase separation, aggregation, and toxicity. <i>EMBO Journal</i> , <b>2017</b> , 36, 2951-2967	13	365
43	Sequence determinants of protein phase behavior from a coarse-grained model. <i>PLoS Computational Biology</i> , <b>2018</b> , 14, e1005941	5	209
42	Determination of reaction coordinates via locally scaled diffusion map. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 124116	3.9	180
41	Relation between single-molecule properties and phase behavior of intrinsically disordered proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 9929-9934 <sup>115</sup> 149	11.5	149
40	Discovering mountain passes via torchlight: methods for the definition of reaction coordinates and pathways in complex macromolecular reactions. <i>Annual Review of Physical Chemistry</i> , <b>2013</b> , 64, 295-316	15.7	147
39	Consistent View of Polypeptide Chain Expansion in Chemical Denaturants from Multiple Experimental Methods. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 11714-26	16.4	127
38	Temperature-Controlled Liquid-Liquid Phase Separation of Disordered Proteins. <i>ACS Central Science</i> , <b>2019</b> , 5, 821-830	16.8	108
37	Probing the Action of Chemical Denaturant on an Intrinsically Disordered Protein by Simulation and Experiment. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 11702-13	16.4	91
36	Inferring properties of disordered chains from FRET transfer efficiencies. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 123329	3.9	63
35	Rapid exploration of configuration space with diffusion-map-directed molecular dynamics. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 12769-76	3.4	57
34	An Extended Guinier Analysis for Intrinsically Disordered Proteins. <i>Journal of Molecular Biology</i> , <b>2018</b> , 430, 2540-2553	6.5	48
33	Kinesin is an evolutionarily fine-tuned molecular ratchet-and-pawl device of decisively locked direction. <i>Biophysical Journal</i> , <b>2007</b> , 93, 3363-72	2.9	48
32	Simulation methods for liquid-liquid phase separation of disordered proteins. <i>Current Opinion in Chemical Engineering</i> , <b>2019</b> , 23, 92-98	5.4	47
31	Evolution of All-Atom Protein Force Fields to Improve Local and Global Properties. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 2227-2234	6.4	39
30	Delineation of folding pathways of a $\beta$ -sheet miniprotein. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 13065-74	3.4	39
29	Polymer reversal rate calculated via locally scaled diffusion map. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 144109	3.9	39

28	Dependence of internal friction on folding mechanism. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 3283-90	16.4	35
27	Hydropathy Patterning Complements Charge Patterning to Describe Conformational Preferences of Disordered Proteins. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 3408-3415	6.4	34
26	Sequence dependent phase separation of protein-polynucleotide mixtures elucidated using molecular simulations. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, 12593-12603	20.1	34
25	A tripodal peptide ligand for asymmetric Rh(II) catalysis highlights unique features of on-bead catalyst development. <i>Chemical Science</i> , <b>2014</b> , 5, 1401-1407	9.4	33
24	Molecular Details of Protein Condensates Probed by Microsecond Long Atomistic Simulations. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 11671-11679	3.4	32
23	A Metastable Contact and Structural Disorder in the Estrogen Receptor Transactivation Domain. <i>Structure</i> , <b>2019</b> , 27, 229-240.e4	5.2	31
22	Comment on "Innovative scattering analysis shows that hydrophobic disordered proteins are expanded in water". <i>Science</i> , <b>2018</b> , 361,	33.3	30
21	Polymer effects modulate binding affinities in disordered proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 19506-19512	11.5	29
20	Accurate Transfer Efficiencies, Distance Distributions, and Ensembles of Unfolded and Intrinsically Disordered Proteins From Single-Molecule FRET. <i>Methods in Enzymology</i> , <b>2018</b> , 611, 287-325	1.7	28
19	Reduction of All-Atom Protein Folding Dynamics to One-Dimensional Diffusion. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 15247-55	3.4	26
18	Modeling motility of the kinesin dimer from molecular properties of individual monomers. <i>Biochemistry</i> , <b>2008</b> , 47, 4733-42	3.2	21
17	Empirical Optimization of Interactions between Proteins and Chemical Denaturants in Molecular Simulations. <i>Journal of Chemical Theory and Computation</i> , <b>2015</b> , 11, 5543-53	6.4	20
16	The intrinsic load-resisting capacity of kinesin. <i>Physical Biology</i> , <b>2009</b> , 6, 036002	3	20
15	Molecular recognition of DNA by ligands: roughness and complexity of the free energy profile. <i>Journal of Chemical Physics</i> , <b>2013</b> , 139, 145102	3.9	16
14	Origin of Internal Friction in Disordered Proteins Depends on Solvent Quality. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 11478-11487	3.4	14
13	Modulation of Folding Internal Friction by Local and Global Barrier Heights. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 1028-34	6.4	12
12	A comparative analysis of clustering algorithms: O <sub>2</sub> migration in truncated hemoglobin I from transition networks. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 025103	3.9	9
11	From molecular shuttles to directed procession of nanorings. <i>Chemical Physics</i> , <b>2008</b> , 352, 235-240	2.3	7

10	Salt-Dependent Conformational Changes of Intrinsically Disordered Proteins. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 6684-6691	6.4	7
9	Using a sequence-specific coarse-grained model for studying protein liquid-liquid phase separation. <i>Methods in Enzymology</i> , <b>2021</b> , 646, 1-17	1.7	7
8	Diffusion of a disordered protein on its folded ligand. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	6
7	Molecular details of protein condensates probed by microsecond-long atomistic simulations		5
6	Multiscale approach to the determination of the photoactive yellow protein signaling state ensemble. <i>PLoS Computational Biology</i> , <b>2014</b> , 10, e1003797	5	4
5	Hydropathy patterning complements charge patterning to describe conformational preferences of disordered proteins		2
4	Sequence dependent co-phase separation of RNA-protein mixtures elucidated using molecular simulations		2
3	Diffusion of the disordered E-cadherin tail on Ecatenin		2
2	Quantitative NMR Study of Insulin-Degrading Enzyme Using Amyloid- $\beta$ and HIV-1 p6 Elucidates Its Chaperone Activity. <i>Biochemistry</i> , <b>2021</b> , 60, 2519-2523	3.2	2
1	Single-molecule fluorescence studies of IDPs and IDRs <b>2019</b> , 93-136		