Sarah Rauscher

List of Publications by Citations

18 papers	2,867 citations	12 h-index	22 g-index
22 ext. papers	4,119 ext. citations	5.9 avg, IF	5.27 L-index

#	Paper	IF	Citations
18	CHARMM36m: an improved force field for folded and intrinsically disordered proteins. *Nature Methods*, **2017**, 14, 71-73	21.6	1819
17	Structural Ensembles of Intrinsically Disordered Proteins Depend Strongly on Force Field: A Comparison to Experiment. *Journal of Chemical Theory and Computation*, **2015**, 11, 5513-24	6.4	281
16	Proline and glycine control protein self-organization into elastomeric or amyloid fibrils. *Structure*, **2006**, 14, 1667-76	5.2	274
15	The liquid structure of elastin. *ELife*, **2017**, 6,	8.9	83
14	Accelerating Convergence in Molecular Dynamics Simulations of Solutes in Lipid Membranes by Conducting a Random Walk along the Bilayer Normal. *Journal of Chemical Theory and Computation*, **2013**, 9, 3686-703	6.4	73
13	Molecular simulations of protein disorder. *Biochemistry and Cell Biology*, **2010**, 88, 269-90	3.6	65
12	Improving Internal Peptide Dynamics in the Coarse-Grained MARTINI Model: Toward Large-Scale Simulations of Amyloid- and Elastin-like Peptides. *Journal of Chemical Theory and Computation*, **2012**, 8, 1774-1785	6.4	63
11	Structural disorder and protein elasticity. *Advances in Experimental Medicine and Biology*, **2012**, 725, 159-87	3.6	59
10	Simulated Tempering Distributed Replica Sampling, Virtual Replica Exchange, and Other Generalized-Ensemble Methods for Conformational Sampling. *Journal of Chemical Theory and Computation*, **2009**, 5, 2640-62	6.4	47
9	Molecular mechanism of β-sheet self-organization at water-hydrophobic interfaces. *Proteins: Structure, Function and Bioinformatics*, **2011**, 79, 1-22	4.2	42
8	Structural and functional consequences of the STAT5B driver mutation. *Nature Communications*, **2019**, 10, 2517	17.4	27
7	Binding of inositol stereoisomers to model amyloidogenic peptides. *Journal of Physical Chemistry B*, **2012**, 116, 1111-9	3.4	14
6	Distance-Based Metrics for Comparing Conformational Ensembles of Intrinsically Disordered Proteins. *Biophysical Journal*, **2020**, 118, 2952-2965	2.9	6
5	Structural diversity of lithium sulfenamides: 7Li NMR studies in solution and crystal structures of [Li2(eta2-(CH3)3C-NS-C6H4CH(3)-4)2(THF)2] and [Li2(eta1-4-CH3C6H4-NS-C6H4CH(3)-4)2(THF)4]. *Inorganic Chemistry*, **2003**, 42, 3849-55	5.1	5
4	A Novel Polar Core and Weakly Fixed C-Tail in Squid Arrestin Provide New Insight into Interaction with Rhodopsin. *Journal of Molecular Biology*, **2018**, 430, 4102-4118	6.5	4
3	Simulated tempering distributed replica sampling: A practical guide to enhanced conformational sampling. *Journal of Physics: Conference Series*, **2010**, 256, 012011	0.3	2
2	Atomistic Simulation Tools to Study Protein Self-Aggregation. *Methods in Molecular Biology*, **2019**, 2039, 243-262	1.4	1

List of Publications

1 The Liquid Structure of Elastin 1