Sarah L Shammas

List of Publications by Year
in descending order

22 papers	1,711 citations	430874 18 h-index	677142 22 g-index
22 all docs	22 docs citations	22 times ranked	2483 citing authors

#	Article	IF	Citations
1	Plasticity of an Ultrafast Interaction between Nucleoporins and Nuclear Transport Receptors. Cell, 2015, 163, 734-745.	28.9	255
2	A mechanistic model of tau amyloid aggregation based on direct observation of oligomers. Nature Communications, 2015, 6, 7025.	12.8	179
3	Interplay between partner and ligand facilitates the folding and binding of an intrinsically disordered protein. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15420-15425.	7.1	144
4	Binding of the Molecular Chaperone Î±B-Crystallin to AÎ² Amyloid Fibrils Inhibits Fibril Elongation. Biophysical Journal, 2011, 101, 1681-1689.	0.5	143
5	Insights into Coupled Folding and Binding Mechanisms from Kinetic Studies. Journal of Biological Chemistry, 2016, 291, 6689-6695.	3.4	141
6	Perturbation of the Stability of Amyloid Fibrils through Alteration of Electrostatic Interactions. Biophysical Journal, 2011, 100, 2783-2791.	0.5	121
7	Transient misfolding dominates multidomain protein folding. Nature Communications, 2015, 6, 8861.	12.8	97
8	Hsp70 Inhibits the Nucleation and Elongation of Tau and Sequesters Tau Aggregates with High Affinity. ACS Chemical Biology, 2018, 13, 636-646.	3.4	96
9	Remarkably Fast Coupled Folding and Binding of the Intrinsically Disordered Transactivation Domain of cMyb to CBP KIX. Journal of Physical Chemistry B, 2013, 117, 13346-13356.	2.6	84
10	Allostery within a transcription coactivator is predominantly mediated through dissociation rate constants. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12055-12060.	7.1	76
11	Affinity of IDPs to their targets is modulated by ion-specific changes in kinetics and residual structure. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9882-9887.	7.1	67
12	Mechanistic roles of protein disorder within transcription. Current Opinion in Structural Biology, 2017, 42, 155-161.	5.7	56
13	Two Differential Binding Mechanisms of FG-Nucleoporins and Nuclear Transport Receptors. Cell Reports, 2018, 22, 3660-3671.	6.4	41
14	Conserved Helix-Flanking Prolines Modulate Intrinsically Disordered Protein:Target Affinity by Altering the Lifetime of the Bound Complex. Biochemistry, 2017, 56, 2379-2384.	2.5	40
15	pKID Binds to KIX via an Unstructured Transition State with Nonnative Interactions. Biophysical Journal, 2017, 113, 2713-2722.	0.5	33
16	Role of non-native electrostatic interactions in the coupled folding and binding of PUMA with Mcl-1. PLoS Computational Biology, 2017, 13, e1005468.	3.2	32
17	Mechanism of Assembly of the Non-Covalent Spectrin Tetramerization Domain from Intrinsically Disordered Partners. Journal of Molecular Biology, 2014, 426, 21-35.	4.2	31
18	GADIS: Algorithm for designing sequences to achieve target secondary structure profiles of intrinsically disordered proteins. Protein Engineering, Design and Selection, 2016, 29, 339-346.	2.1	26

#	Article	IF	Citations
19	Phosphorylation of the IDP KID Modulates Affinity for KIX by Increasing the Lifetime of the Complex. Biophysical Journal, 2017, 113, 2706-2712.	0.5	22
20	Charge Interactions Modulate the Encounter Complex Ensemble of Two Differently Charged Disordered Protein Partners of KIX. Journal of Chemical Theory and Computation, 2020, 16, 3856-3868.	5.3	13
21	Binding and folding in transcriptional complexes. Current Opinion in Structural Biology, 2021, 66, 156-162.	5.7	12
22	Stopped-Flow Kinetic Techniques for Studying Binding Reactions of Intrinsically Disordered Proteins. Methods in Enzymology, 2018, 611, 423-457.	1.0	2