Scott Horowitz

List of Publications by Year
in descending order

26 papers	1,212 citations	687363 13 h-index	580821 25 g-index
27 all docs	27 docs citations	27 times ranked	1531 citing authors

#	Article	IF	Citations
1	Macromolecular modeling and design in Rosetta: recent methods and frameworks. Nature Methods, 2020, 17, 665-680.	19.0	513
2	Forces Driving Chaperone Action. Cell, 2016, 166, 369-379.	28.9	89
3	Chaperone-client interactions: Non-specificity engenders multifunctionality. Journal of Biological Chemistry, 2017, 292, 12010-12017.	3.4	62
4	Do nucleic acids moonlight as molecular chaperones?. Nucleic Acids Research, 2016, 44, 4835-4845.	14.5	58
5	Visualizing chaperone-assisted protein folding. Nature Structural and Molecular Biology, 2016, 23, 691-697.	8.2	52
6	Protein unfolding as a switch from self-recognition to high-affinity client binding. Nature Communications, 2016, 7, 10357.	12.8	48
7	Super Spy variants implicate flexibility in chaperone action. ELife, 2014, 3, e01584.	6.0	48
8	Determining crystal structures through crowdsourcing and coursework. Nature Communications, 2016, 7, 12549.	12.8	47
9	HdeB Functions as an Acid-protective Chaperone in Bacteria. Journal of Biological Chemistry, 2015, 290, 65-75.	3.4	45
10	Folding while bound to chaperones. Current Opinion in Structural Biology, 2018, 48, 1-5.	5.7	42
11	RNAs as chaperones. RNA Biology, 2016, 13, 1228-1231.	3.1	35
12	Capturing a Dynamic Chaperoneâ€“Substrate Interaction Using NMR-Informed Molecular Modeling. Journal of the American Chemical Society, 2016, 138, 9826-9839.	13.7	25
13	Computational Redesign of Thioredoxin Is Hypersensitive toward Minor Conformational Changes in the Backbone Template. Journal of Molecular Biology, 2016, 428, 4361-4377.	4.2	21
14	Gâ€Quadruplexes act as sequenceâ€dependent protein chaperones. EMBO Reports, 2020, 21, e49735.	4.5	19
15	Creating custom Foldit puzzles for teaching biochemistry. Biochemistry and Molecular Biology Education, 2019, 47, 133-139.	1.2	18
16	The Mechanism of HdeA Unfolding and Chaperone Activation. Journal of Molecular Biology, 2018, 430, 33-40.	4.2	15
17	Introducing Foldit Education Mode. Nature Structural and Molecular Biology, 2020, 27, 769-770.	8.2	15
18	DNA Facilitates Oligomerization and Prevents Aggregation via DNA Networks. Biophysical Journal, 2020, 118, 162-171.	0.5	13

#	Article	IF	Citations
19	Measuring the Kinetics of Molecular Association by Isothermal Titration Calorimetry. Methods in Enzymology, 2016, 567, 181-213.	1.0	10
20	Building de novo cryo-electron microscopy structures collaboratively with citizen scientists. PLoS Biology, 2019, 17, e3000472.	5.6	10
21	Chaperna: linking the ancient RNA and protein worlds. RNA Biology, 2021, 18, 16-23.	3.1	9
22	Undergraduates improve upon published crystal structure in class assignment. Biochemistry and Molecular Biology Education, 2014, 42, 398-404.	1.2	6
23	Selecting Conformational Ensembles Using Residual Electron and Anomalous Density (READ). Methods in Molecular Biology, 2018, 1764, 491-504.	0.9	5
24	Identifying dynamic, partially occupied residues using anomalous scattering. Acta Crystallographica Section D: Structural Biology, 2019, 75, 1084-1095.	2.3	5
25	Reply to â€˜Misreading chaperoneâ€“substrate complexes from random noiseâ€™. Nature Structural and Molecular Biology, 2018, 25, 990-991.	8.2	2
26	Structural and Functional Characterization of Sulfonium Carbonâ€“Oxygen Hydrogen Bonding in the Deoxyamino Sugar Methyltransferase TylM1. Biochemistry, 2019, 58, 2152-2159.	2.5	0