

Ryan R Cheng

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,668
citations

516710

16
h-index

610901

24
g-index

31
all docs

31
docs citations

31
times ranked

2451
citing authors

#	ARTICLE	IF	CITATIONS
1	Uncovering the statistical physics of 3D chromosomal organization using data-driven modeling. <i>Current Opinion in Structural Biology</i> , 2022, 75, 102418.	5.7	8
2	The Nucleome Data Bank: web-based resources to simulate and analyze the three-dimensional genome. <i>Nucleic Acids Research</i> , 2021, 49, D172-D182.	14.5	25
3	Expanding Direct Coupling Analysis to Identify Heterodimeric Interfaces from Limited Protein Sequence Data. <i>Journal of Physical Chemistry B</i> , 2021, 125, 11408-11417.	2.6	1
4	Exploring chromosomal structural heterogeneity across multiple cell lines. <i>ELife</i> , 2020, 9, .	6.0	43
5	Structure-Based Model of RNA Pseudoknot Captures Magnesium-Dependent Folding Thermodynamics. <i>Journal of Physical Chemistry B</i> , 2019, 123, 1505-1511.	2.6	6
6	Learning Genomic Energy Landscapes from Experiments. , 2019, , 305-330.		4
7	The Energetics and Physiological Impact of Cohesin Extrusion. <i>Cell</i> , 2018, 173, 1165-1178.e20.	28.9	399
8	Deciphering the structure of the condensin protein complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11911-11916.	7.1	15
9	Designing bacterial signaling interactions with coevolutionary landscapes. <i>PLoS ONE</i> , 2018, 13, e0201734.	2.5	7
10	Connecting the Sequence-Space of Bacterial Signaling Proteins to Phenotypes using Coevolutionary Landscapes. <i>Biophysical Journal</i> , 2017, 112, 281a-282a.	0.5	0
11	De novo prediction of human chromosome structures: Epigenetic marking patterns encode genome architecture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12126-12131.	7.1	193
12	Elucidating the druggable interface of protein-protein interactions using fragment docking and coevolutionary analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E8051-E8058.	7.1	65
13	Connecting the Sequence-Space of Bacterial Signaling Proteins to Phenotypes Using Coevolutionary Landscapes. <i>Molecular Biology and Evolution</i> , 2016, 33, 3054-3064.	8.9	63
14	A Combined Computational and Genetic Approach Uncovers Network Interactions of the Cyanobacterial Circadian Clock. <i>Journal of Bacteriology</i> , 2016, 198, 2439-2447.	2.2	16
15	Constructing sequence-dependent protein models using coevolutionary information. <i>Protein Science</i> , 2016, 25, 111-122.	7.6	13
16	Toward rationally redesigning bacterial two-component signaling systems using coevolutionary information. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E563-71.	7.1	117
17	Coevolutionary information, protein folding landscapes, and the thermodynamics of natural selection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 12408-12413.	7.1	126
18	Quantifying internal friction in unfolded and intrinsically disordered proteins with single-molecule spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 17800-17806.	7.1	282

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19	Molecular Weight Effect on the formation of \hat{I}^2 Phase Poly(9,9- $\text{di}o\text{ctylfluorene}$) in Dilute Solutions. Journal of Physical Chemistry B, 2011, 115, 12380-12385.	2.6	35
20	A Mechanistic Study of Electron Transfer from the Distal Termini of Electrode-Bound, Single-Stranded DNAs. Journal of the American Chemical Society, 2010, 132, 16120-16126.	13.7	56
21	Universality in the Timescales of Internal Loop Formation in Unfolded Proteins and Single-Stranded Oligonucleotides. Biophysical Journal, 2010, 99, 3959-3968.	0.5	22
22	Chain Length and Substituent Effects on the Formation of Excimer-Like States in Nanoaggregates of CN-PPV Model Oligomers. Journal of Physical Chemistry C, 2010, 114, 12078-12089.	3.1	19
23	End-to-Surface Reaction Dynamics of a Single Surface-Attached DNA or Polypeptide. Journal of Physical Chemistry B, 2010, 114, 3321-3329.	2.6	12
24	Aggregation Effects on the Emission Spectra and Dynamics of Model Oligomers of MEH-PPV. Journal of Physical Chemistry C, 2009, 113, 18851-18862.	3.1	71
25	The Rate of Intramolecular Loop Formation in DNA and Polypeptides: The Absence of the Diffusion-Controlled Limit and Fractional Power-Law Viscosity Dependence. Journal of Physical Chemistry B, 2009, 113, 14026-14034.	2.6	25
26	The Length and Viscosity Dependence of End-to-End Collision Rates in Single-Stranded DNA. Biophysical Journal, 2009, 97, 205-210.	0.5	34