

Rafael Tapia-Rojo

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

611
citations

759233

12
h-index

794594

19
g-index

34
all docs

34
docs citations

34
times ranked

498
citing authors

#	ARTICLE	IF	CITATIONS
1	Ephemeral states in protein folding under force captured with a magnetic tweezers design. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 7873-7878.	7.1	67
2	The Work of Titin Protein Folding as a Major Driver in Muscle Contraction. Annual Review of Physiology, 2018, 80, 327-351.	13.1	66
3	Trigger factor chaperone acts as a mechanical foldase. Nature Communications, 2017, 8, 668.	12.8	58
4	The Mechanical Power of Titin Folding. Cell Reports, 2019, 27, 1836-1847.e4.	6.4	58
5	Direct observation of a coil-to-helix contraction triggered by vinculin binding to talin. Science Advances, 2020, 6, eaaz4707.	10.3	47
6	Mechanical Deformation Accelerates Protein Ageing. Angewandte Chemie - International Edition, 2017, 56, 9741-9746.	13.8	44
7	Talin folding as the tuning fork of cellular mechanotransduction. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21346-21353.	7.1	44
8	A HaloTag-TEV genetic cassette for mechanical phenotyping of proteins from tissues. Nature Communications, 2020, 11, 2060.	12.8	42
9	Protein folding modulates the chemical reactivity of a Gram-positive adhesin. Nature Chemistry, 2021, 13, 172-181.	13.6	35
10	Thermal and mechanical properties of a DNA model with solvation barrier. Physical Review E, 2010, 82, 031916.	2.1	29
11	Proteins Breaking Bad: A Free Energy Perspective. Journal of Physical Chemistry Letters, 2017, 8, 3642-3647.	4.6	22
12	Molecular strategy for blocking isopeptide bond formation in nascent pilin proteins. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9222-9227.	7.1	22
13	Mesoscopic model for free-energy-landscape analysis of DNA sequences. Physical Review E, 2012, 86, 021908.	2.1	16
14	Mesoscopic Model and Free Energy Landscape for Protein-DNA Binding Sites: Analysis of Cyanobacterial Promoters. PLoS Computational Biology, 2014, 10, e1003835.	3.2	14
15	A physical picture for mechanical dissociation of biological complexes: from forces to free energies. Physical Chemistry Chemical Physics, 2017, 19, 4567-4575.	2.8	10
16	Thermal versus mechanical unfolding in a model protein. Journal of Chemical Physics, 2019, 151, 185105.	3.0	6
17	Mechanical Deformation Accelerates Protein Ageing. Angewandte Chemie, 2017, 129, 9873-9878.	2.0	5
18	Mechanical unfolding of a simple model protein goes beyond the reach of one-dimensional descriptions. Journal of Chemical Physics, 2014, 141, 135102.	3.0	4

#	ARTICLE	IF	CITATIONS
19	Structure, dynamics and kinetics of two-component Lantibiotic Lichenicidin. PLoS ONE, 2017, 12, e0179962.	2.5	3
20	Trigger Factor Boosts the Work Done by Protein Folding under Force. Biophysical Journal, 2017, 112, 41a.	0.5	0
21	Protein Aging: Loss of Folding Contraction due to Oxidation of Cryptic Side Chains. Biophysical Journal, 2017, 112, 490a.	0.5	0
22	An Electromagnetic Tweezers for Studying Fast Protein Folding Dynamics. Biophysical Journal, 2018, 114, 385a.	0.5	0
23	Mechanical Forces are a Reactivity Switch for an Adhesin Thioester Bond. Biophysical Journal, 2019, 116, 544a.	0.5	0
24	High Force Magnetic Tweezers Reveal That Bacterial Adhesion Pili Act as Megadalton-scale Shock Absorbers. Biophysical Journal, 2020, 118, 33a-34a.	0.5	0
25	Direct Observation of a Coil-to-Helix Contraction Triggered by Vinculin Binding to Talin. Biophysical Journal, 2020, 118, 619a.	0.5	0