Rafael Tapia-Rojo

List of Publications by Year
in descending order

25	611	759233 12	794594 19
papers	citations	h-index	g-index

34	34	34	498
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Protein folding modulates the chemical reactivity of a Gram-positive adhesin. Nature Chemistry, 2021, 13, 172-181.	13.6	35
2	High Force Magnetic Tweezers Reveal That Bacterial Adhesion Pili Act as Megadalton-scale Schock Absorbers. Biophysical Journal, 2020, 118, 33a-34a.	0.5	0
3	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
4	Direct Observation of a Coil-to-Helix Contraction Triggered by Vinculin Binding to Talin. Biophysical Journal, 2020, 118, 619a.	0.5	0
5	A HaloTag-TEV genetic cassette for mechanical phenotyping of proteins from tissues. Nature Communications, 2020, 11, 2060.	12.8	42
6	Direct observation of a coil-to-helix contraction triggered by vinculin binding to talin. Science Advances, 2020, 6, eaaz4707.	10.3	47
7	The Mechanical Power of Titin Folding. Cell Reports, 2019, 27, 1836-1847.e4.	6.4	58
8	Mechanical Forces are a Reactivity Switch for an Adhesin Thioester Bond. Biophysical Journal, 2019, 116, 544a.	0.5	0
9	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
10	Thermal versus mechanical unfolding in a model protein. Journal of Chemical Physics, 2019, 151, 185105.	3.0	6
11	An Electromagnetic Tweezers for Studying Fast Protein Folding Dynamics. Biophysical Journal, 2018, 114, 385a.	0.5	0
12	The Work of Titin Protein Folding as a Major Driver in Muscle Contraction. Annual Review of Physiology, 2018, 80, 327-351.	13.1	66
13	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
14	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
15	Mechanical Deformation Accelerates Protein Ageing. Angewandte Chemie - International Edition, 2017, 56, 9741-9746.	13.8	44
16	Mechanical Deformation Accelerates Protein Ageing. Angewandte Chemie, 2017, 129, 9873-9878.	2.0	5
17	Trigger Factor Boosts the Work Done by Protein Folding under Force. Biophysical Journal, 2017, 112, 41a.	0.5	0
18	Protein Aging: Loss of Folding Contraction due to Oxidation of Cryptic Side Chains. Biophysical Journal, 2017, 112, 490a.	0.5	0

#	Article	IF	Citations
19	Trigger factor chaperone acts as a mechanical foldase. Nature Communications, 2017, 8, 668.	12.8	58
20	Proteins Breaking Bad: A Free Energy Perspective. Journal of Physical Chemistry Letters, 2017, 8, 3642-3647.	4.6	22
21	Structure, dynamics and kinetics of two-component Lantibiotic Lichenicidin. PLoS ONE, 2017, 12, e0179962.	2.5	3
22	Mesoscopic Model and Free Energy Landscape for Protein-DNA Binding Sites: Analysis of Cyanobacterial Promoters. PLoS Computational Biology, 2014, 10, e1003835.	3.2	14
23	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
24	Mesoscopic model for free-energy-landscape analysis of DNA sequences. Physical Review E, 2012, 86, 021908.	2.1	16
25	Thermal and mechanical properties of a DNA model with solvation barrier. Physical Review E, 2010, 82, 031916.	2.1	29