

Ronen Berkovich

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

560
citations

759055

12
h-index

642610

23
g-index

37
all docs

37
docs citations

37
times ranked

605
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonexponential kinetics captured in sequential unfolding of polyproteins over a range of loads. <i>Current Research in Structural Biology</i> , 2022, 4, 106-117.	1.1	2
2	Friction and chaos: Influence of the damping coefficient on atomic-scale stick-slip on hexagonal crystal lattices. <i>Physical Review B</i> , 2022, 105, .	1.1	1
3	Nanoscale contact mechanics of the interactions at monolayer MoS2 interfaces with Au and Si. <i>Tribology International</i> , 2022, 174, 107734.	3.0	4
4	An inside look at a biofilm: <i>Pseudomonas aeruginosa</i> flagella biotracking. <i>Science Advances</i> , 2021, 7, .	4.7	14
5	Comparative Study of Dimensionality and Symmetry Breaking on Nanoscale Friction in the Prandtl–Tomlinson Model with Varying Effective Stiffness. <i>Tribology Letters</i> , 2020, 68, 1.	1.2	6
6	Correlations within polyprotein forced unfolding dwell-times introduce sequential dependency. <i>Journal of Structural Biology</i> , 2020, 210, 107495.	1.3	8
7	Effect of the C-terminal amino acid of the peptide on the structure and mechanical properties of alginate–peptide hydrogels across length-scales. <i>Soft Matter</i> , 2020, 16, 6155-6162.	1.2	6
8	Interplay between Viscoelasticity and Force Rate Affects Sequential Unfolding in Polyproteins Pulled at Constant Velocity. <i>Macromolecules</i> , 2020, 53, 3021-3029.	2.2	6
9	Application of Static Disorder Approach to Friction Force Microscopy of Catalyst Nanoparticles to Estimate Corrugation Energy Amplitudes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3032-3038.	1.5	4
10	The role of near-wall drag effects in the dynamics of tethered DNA under shear flow. <i>Soft Matter</i> , 2018, 14, 2219-2226.	1.2	4
11	Deciphering the Mechanical Properties of Type III Secretion System EspA Protein by Single Molecule Force Spectroscopy. <i>Langmuir</i> , 2018, 34, 6261-6270.	1.6	6
12	Estimation of interaction energy and contact stiffness in atomic-scale sliding on a model sodium chloride surface in ethanol. <i>Scientific Reports</i> , 2018, 8, 4681.	1.6	11
13	Mechanobiology: protein refolding under force. <i>Emerging Topics in Life Sciences</i> , 2018, 2, 687-699.	1.1	8
14	Reversible two-state folding of the ultrafast protein gpW under mechanical force. <i>Communications Chemistry</i> , 2018, 1, .	2.0	16
15	Segmentation and the Entropic Elasticity of Modular Proteins. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4707-4713.	2.1	19
16	Simulated Force Quench Dynamics Shows GB1 Protein Is Not a Two State Folder. <i>Journal of Physical Chemistry B</i> , 2017, 121, 5162-5173.	1.2	14
17	Is Protein Single Molecule Dynamics under Force Described by Two or More States?. <i>Biophysical Journal</i> , 2017, 112, 31a.	0.2	0
18	Single Molecule Force Spectroscopy and Molecular Dynamics Simulations as a Combined Platform for Probing Protein Face-Specific Binding. <i>Langmuir</i> , 2017, 33, 10851-10860.	1.6	24

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19	The elastic free energy of a tandem modular protein under force. <i>Biochemical and Biophysical Research Communications</i> , 2015, 460, 434-438.	1.0	27
20	Revisiting the Free Energy of Modular Proteins under Force. <i>Biophysical Journal</i> , 2015, 108, 355a.	0.2	0
21	Probing the Effect of Force on HIV-1 Receptor CD4. <i>ACS Nano</i> , 2014, 8, 10313-10320.	7.3	24
22	Halotag Tethers to Study Titin Folding at the Single Molecule Level. <i>Biophysical Journal</i> , 2014, 106, 391a.	0.2	1
23	Nanomechanics of HaloTag Tethers. <i>Journal of the American Chemical Society</i> , 2013, 135, 12762-12771.	6.6	108
24	Rate limit of protein elastic response is tether dependent. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 14416-14421.	3.3	59
25	Molecular Mechanotransduction in Human CD4. <i>Biophysical Journal</i> , 2012, 102, 384a.	0.2	0
26	Direct Measurement of the Diffusion Dynamics of an Extended Poly-Ubiquitin Under Constant Force. <i>Biophysical Journal</i> , 2012, 102, 12a.	0.2	0
27	Quantitative FRAP Analysis Demonstrates that Raft Protein Clustering Alters N-Ras Depalmitoylation, Membrane Interactions and Activation Pattern. <i>Biophysical Journal</i> , 2012, 102, 32a.	0.2	0
28	Reconstruction of Energy Surfaces from Friction Force Microscopy Measurements with the Jarzynski Equality. <i>Nanoscience and Technology</i> , 2012, , 317-334.	1.5	0
29	An Intrusive Entropic Barrier Induced by Force. <i>Biophysical Journal</i> , 2011, 100, 524a.	0.2	0
30	Accurate Quantification of Diffusion and Binding Kinetics of Non-Integral Membrane Proteins by FRAP. <i>Traffic</i> , 2011, 12, 1648-1657.	1.3	23
31	Collapse Dynamics of Single Proteins Extended by Force. <i>Biophysical Journal</i> , 2010, 98, 2692-2701.	0.2	79
32	Hopping around an entropic barrier created by force. <i>Biochemical and Biophysical Research Communications</i> , 2010, 403, 133-137.	1.0	45
33	Analyzing friction forces with the Jarzynski equality. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 354008.	0.7	11
34	ATR-FTIR studies on the effect of strong salting-out salts on the phase separation scenario in aqueous solutions of poly(N-isopropylacrylamide) [PNIPA]. <i>Polymers for Advanced Technologies</i> , 2002, 13, 982-991.	1.6	26
35	Surroundings affect slip length dynamics in nanoscale friction through contact stiffness and damping. <i>Friction</i> , 0, , .	3.4	1