Ronen Berkovich

List of Publications by Year
in descending order

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35 papers	560 citations	759233 12 h-index	642732 23 g-index
37 all docs	37 docs citations	37 times ranked	605 citing authors

#	Article	IF	Citations
1	Nanomechanics of HaloTag Tethers. Journal of the American Chemical Society, 2013, 135, 12762-12771.	13.7	108
2	Collapse Dynamics of Single Proteins Extended by Force. Biophysical Journal, 2010, 98, 2692-2701.	0.5	79
3	Rate limit of protein elastic response is tether dependent. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14416-14421.	7.1	59
4	Hopping around an entropic barrier created by force. Biochemical and Biophysical Research Communications, 2010, 403, 133-137.	2.1	45
5	The elastic free energy of a tandem modular protein under force. Biochemical and Biophysical Research Communications, 2015, 460, 434-438.	2.1	27
6	ATR-FTIR studies on the effect of strong salting-out salts on the phase separation scenario in aqueous solutions of poly(N-isopropylacrylamide) [PNIPA]. Polymers for Advanced Technologies, 2002, 13, 982-991.	3.2	26
7	Probing the Effect of Force on HIV-1 Receptor CD4. ACS Nano, 2014, 8, 10313-10320.	14.6	24
8	Single Molecule Force Spectroscopy and Molecular Dynamics Simulations as a Combined Platform for Probing Protein Face-Specific Binding. Langmuir, 2017, 33, 10851-10860.	3.5	24
9	Accurate Quantification of Diffusion and Binding Kinetics of Nonâ€integral Membrane Proteins by FRAP. Traffic, 2011, 12, 1648-1657.	2.7	23
10	Segmentation and the Entropic Elasticity of Modular Proteins. Journal of Physical Chemistry Letters, 2018, 9, 4707-4713.	4.6	19
11	Reversible two-state folding of the ultrafast protein gpW under mechanical force. Communications Chemistry, 2018, 1, .	4.5	16
12	Simulated Force Quench Dynamics Shows GB1 Protein Is Not a Two State Folder. Journal of Physical Chemistry B, 2017, 121, 5162-5173.	2.6	14
13	An inside look at a biofilm: Pseudomonas aeruginosa flagella biotracking. Science Advances, 2021, 7, .	10.3	14
14	Analyzing friction forces with the Jarzynski equality. Journal of Physics Condensed Matter, 2008, 20, 354008.	1.8	11
15	Estimation of interaction energy and contact stiffness in atomic-scale sliding on a model sodium chloride surface in ethanol. Scientific Reports, 2018, 8, 4681.	3.3	11
16	Mechanobiology: protein refolding under force. Emerging Topics in Life Sciences, 2018, 2, 687-699.	2.6	8
17	Correlations within polyprotein forced unfolding dwell-times introduce sequential dependency. Journal of Structural Biology, 2020, 210, 107495.	2.8	8
18	Deciphering the Mechanical Properties of Type III Secretion System EspA Protein by Single Molecule Force Spectroscopy. Langmuir, 2018, 34, 6261-6270.	3.5	6

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19	Comparative Study of Dimensionality and Symmetry Breaking on Nanoscale Friction in the Prandtlâ€“Tomlinson Model with Varying Effective Stiffness. Tribology Letters, 2020, 68, 1.	2.6	6
20	Effect of the C-terminal amino acid of the peptide on the structure and mechanical properties of alginateâ€“peptide hydrogels across length-scales. Soft Matter, 2020, 16, 6155-6162.	2.7	6
21	Interplay between Viscoelasticity and Force Rate Affects Sequential Unfolding in Polyproteins Pulled at Constant Velocity. Macromolecules, 2020, 53, 3021-3029.	4.8	6
22	The role of near-wall drag effects in the dynamics of tethered DNA under shear flow. Soft Matter, 2018, 14, 2219-2226.	2.7	4
23	Application of Static Disorder Approach to Friction Force Microscopy of Catalyst Nanoparticles to Estimate Corrugation Energy Amplitudes. Journal of Physical Chemistry C, 2019, 123, 3032-3038.	3.1	4
24	Nanoscale contact mechanics of the interactions at monolayer MoS2 interfaces with Au and Si. Tribology International, 2022, 174, 107734.	5.9	4
25	Nonexponential kinetics captured in sequential unfolding of polyproteins over a range of loads. Current Research in Structural Biology, 2022, 4, 106-117.	2.2	2
26	Halotag Tethers to Study Titin Folding at the Single Molecule Level. Biophysical Journal, 2014, 106, 391a.	0.5	1
27	Surroundings affect slip length dynamics in nanoscale friction through contact stiffness and damping. Friction, 0, , .	6.4	1
28	Friction and chaos: Influence of the damping coefficient on atomic-scale stick-slip on hexagonal crystal lattices. Physical Review B, 2022, 105, .	3.2	1
29	An Intrusive Entropic Barrier Induced by Force. Biophysical Journal, 2011, 100, 524a.	0.5	0
30	Molecular Mechanotransduction in Human CD4. Biophysical Journal, 2012, 102, 384a.	0.5	0
31	Direct Measurement of the Diffusion Dynamics of an Extended Poly-Ubiquitin Under Constant Force. Biophysical Journal, 2012, 102, 12a.	0.5	0
32	Quantitative FRAP Analysis Demonstrates that Raft Protein Clustering Alters N-Ras Depalmitoylation, Membrane Interactions and Activation Pattern. Biophysical Journal, 2012, 102, 32a.	0.5	0
33	Revisiting the Free Energy of Modular Proteins under Force. Biophysical Journal, 2015, 108, 355a.	0.5	0
34	Is Protein Single Molecule Dynamics under Force Described by Two or More States?. Biophysical Journal, 2017, 112, 31a.	0.5	0
35	Reconstruction of Energy Surfaces from Friction Force Microscopy Measurements with the Jarzynski Equality. Nanoscience and Technology, 2012, , 317-334.	1.5	0