

Felix Rico

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6107915/felix-rico-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52
papers

2,425
citations

25
h-index

49
g-index

68
ext. papers

2,849
ext. citations

5.5
avg, IF

5.05
L-index

#	Paper	IF	Citations
52	Cellular capsules as a tool for multicellular spheroid production and for investigating the mechanics of tumor progression in vitro. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 14843-8	11.5	271
51	Probing mechanical properties of living cells by atomic force microscopy with blunted pyramidal cantilever tips. <i>Physical Review E</i> , 2005 , 72, 021914	2.4	250
50	High-speed force spectroscopy unfolds titin at the velocity of molecular dynamics simulations. <i>Science</i> , 2013 , 342, 741-3	33.3	184
49	Direct measurement of the mechanical properties of lipid phases in supported bilayers. <i>Biophysical Journal</i> , 2012 , 102, L01-3	2.9	147
48	Standardized Nanomechanical Atomic Force Microscopy Procedure (SNAP) for Measuring Soft and Biological Samples. <i>Scientific Reports</i> , 2017 , 7, 5117	4.9	123
47	Stability of microfabricated high aspect ratio structures in poly(dimethylsiloxane). <i>Langmuir</i> , 2005 , 21, 5542-8	4	122
46	High-frequency microrheology reveals cytoskeleton dynamics in living cells. <i>Nature Physics</i> , 2017 , 13, 771-775	16.2	118
45	Mechanical mapping of single membrane proteins at submolecular resolution. <i>Nano Letters</i> , 2011 , 11, 3983-6	11.5	114
44	Biological AFM: where we come from--where we are--where we may go. <i>Journal of Molecular Recognition</i> , 2011 , 24, 406-13	2.6	77
43	Energy landscape roughness of the streptavidin-biotin interaction. <i>Journal of Molecular Recognition</i> , 2007 , 20, 495-501	2.6	76
42	Vibration enhances interleukin-8 release in a cell model of snoring-induced airway inflammation. <i>Sleep</i> , 2005 , 28, 1312-6	1.1	73
41	Experimental evidence for membrane-mediated protein-protein interaction. <i>Biophysical Journal</i> , 2010 , 99, L47-9	2.9	65
40	Structural and mechanical heterogeneity of the erythrocyte membrane reveals hallmarks of membrane stability. <i>ACS Nano</i> , 2013 , 7, 1054-63	16.7	57
39	Heterogeneous and rate-dependent streptavidin-biotin unbinding revealed by high-speed force spectroscopy and atomistic simulations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 6594-6601	11.5	55
38	Thrombin and histamine induce stiffening of alveolar epithelial cells. <i>Journal of Applied Physiology</i> , 2005 , 98, 1567-74	3.7	54
37	A hybrid high-speed atomic force-optical microscope for visualizing single membrane proteins on eukaryotic cells. <i>Nature Communications</i> , 2013 , 4, 2155	17.4	53
36	Genome editing retraces the evolution of toxin resistance in the monarch butterfly. <i>Nature</i> , 2019 , 574, 409-412	50.4	52

35	High-speed atomic force microscopy: imaging and force spectroscopy. <i>FEBS Letters</i> , 2014 , 588, 3631-8	3.8	49
34	Cannabinoid-induced actomyosin contractility shapes neuronal morphology and growth. <i>ELife</i> , 2014 , 3, e03159	8.9	49
33	Temperature modulation of integrin-mediated cell adhesion. <i>Biophysical Journal</i> , 2010 , 99, 1387-96	2.9	48
32	Atomic Force Microscopy Mechanical Mapping of Micropatterned Cells Shows Adhesion Geometry-Dependent Mechanical Response on Local and Global Scales. <i>ACS Nano</i> , 2015 , 9, 5846-56	16.7	43
31	Cell dynamic adhesion and elastic properties probed with cylindrical atomic force microscopy cantilever tips. <i>Journal of Molecular Recognition</i> , 2007 , 20, 459-66	2.6	35
30	Glasslike Membrane Protein Diffusion in a Crowded Membrane. <i>ACS Nano</i> , 2016 , 10, 2584-90	16.7	33
29	High-speed atomic force microscopy: Structure and dynamics of single proteins. <i>Current Opinion in Chemical Biology</i> , 2011 , 15, 704-9	9.7	28
28	Helix Unwinding as Force Buffer in Spectrins. <i>ACS Nano</i> , 2018 , 12, 2719-2727	16.7	26
27	Oscillatory magnetic tweezers based on ferromagnetic beads and simple coaxial coils. <i>Review of Scientific Instruments</i> , 2003 , 74, 4012-4020	1.7	24
26	High-speed force spectroscopy: microsecond force measurements using ultrashort cantilevers. <i>Biophysical Reviews</i> , 2019 , 11, 689-699	3.7	18
25	Elongated membrane tethers, individually anchored by high affinity $\alpha 5$ /VCAM-1 complexes, are the quantal units of monocyte arrests. <i>PLoS ONE</i> , 2013 , 8, e64187	3.7	18
24	Mechanics of proteins with a focus on atomic force microscopy. <i>Journal of Nanobiotechnology</i> , 2013 , 11 Suppl 1, S3	9.4	17
23	Pulling force generated by interacting SNAREs facilitates membrane hemifusion. <i>Integrative Biology (United Kingdom)</i> , 2009 , 1, 301-10	3.7	17
22	Nanomechanical characterization of the stiffness of eye lens cells: a pilot study 2012 , 53, 2151-6		14
21	Single-Molecule Force Spectroscopy: Experiments, Analysis, and Simulations. <i>Methods in Molecular Biology</i> , 2019 , 1886, 163-189	1.4	12
20	History, rare, and multiple events of mechanical unfolding of repeat proteins. <i>Journal of Chemical Physics</i> , 2018 , 148, 123335	3.9	11
19	Two-dimensional kinetics of inter-connexin interactions from single-molecule force spectroscopy. <i>Journal of Molecular Biology</i> , 2011 , 412, 72-9	6.5	10
18	Biological physics by high-speed atomic force microscopy. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020 , 378, 20190604	3	10

17	Atomic Force Microscopy of Protein-Protein Interactions 2009 , 555		10
16	High-Speed Force Spectroscopy for Single Protein Unfolding. <i>Methods in Molecular Biology</i> , 2018 , 1814, 243-264	1.4	8
15	One-Step Calibration of AFM in Liquid. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	7
14	The mechanics of membrane proteins is a signature of biological function. <i>Soft Matter</i> , 2013 , 9, 7866	3.6	6
13	Nanomechanics of lung epithelial cells. <i>International Journal of Nanotechnology</i> , 2005 , 2, 180	1.5	6
12	Mutation in the Core Structure of Desmin Intermediate Filaments Affects Myoblast Elasticity. <i>Biophysical Journal</i> , 2017 , 113, 627-636	2.9	5
11	α5β1 integrin expression increases elasticity in human melanoma cells. <i>Biochemical and Biophysical Research Communications</i> , 2020 , 525, 836-840	3.4	4
10	Probing Cellular Adhesion at the Single-Molecule Level 2011 , 225-261		4
9	A microfluidic method generating monodispersed microparticles with controllable sizes and mechanical properties. <i>Chemical Engineering Science</i> , 2020 , 211, 115322	4.4	4
8	Monitoring Unfolding of Titin I27 Single and Bi Domain with High-Pressure NMR Spectroscopy. <i>Biophysical Journal</i> , 2018 , 115, 341-352	2.9	3
7	Force-clamp measurements of receptor-ligand interactions. <i>Methods in Molecular Biology</i> , 2011 , 736, 331-53	1.4	3
6	Determination of calibration parameters of cantilevers of arbitrary shape by finite element analysis. <i>Review of Scientific Instruments</i> , 2021 , 92, 045001	1.7	2
5	High Frequency Microrheology of Living Cells. <i>Biophysical Journal</i> , 2016 , 110, 132a	2.9	2
4	Atomic Force Microscopy Studies of the Mechanical Properties of Living Cells 2008 , 89-109		1
3	Atomic Force Microscopy Studies of the Mechanical Properties of Living Cells 2010 , 533-553		1
2	Structural and Mechanical Mechanisms of Ocular Tissues Probed by AFM. <i>Nanoscience and Technology</i> , 2010 , 363-393	0.6	0
1	Monitoring of in-vitro ultrasonic stimulation of cells by numerical modeling.. <i>Ultrasonics</i> , 2022 , 124, 106714		14