

Felix Rico

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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	Monitoring of in-vitro ultrasonic stimulation of cells by numerical modeling.. <i>Ultrasonics</i> , 2022 , 124, 1067314	3.4	4
51	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
50	βB integrin expression increases elasticity in human melanoma cells. <i>Biochemical and Biophysical Research Communications</i> , 2020 , 525, 836-840	3.4	4
49	Biological physics by high-speed atomic force microscopy. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020 , 378, 20190604	3	10
48	A microfluidic method generating monodispersed microparticles with controllable sizes and mechanical properties. <i>Chemical Engineering Science</i> , 2020 , 211, 115322	4.4	4
47	One-Step Calibration of AFM in Liquid. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	7
46	Genome editing retraces the evolution of toxin resistance in the monarch butterfly. <i>Nature</i> , 2019 , 574, 409-412	50.4	52
45	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
44	High-speed force spectroscopy: microsecond force measurements using ultrashort cantilevers. <i>Biophysical Reviews</i> , 2019 , 11, 689-699	3.7	18
43	Single-Molecule Force Spectroscopy: Experiments, Analysis, and Simulations. <i>Methods in Molecular Biology</i> , 2019 , 1886, 163-189	1.4	12
42	βHelix Unwinding as Force Buffer in Spectrins. <i>ACS Nano</i> , 2018 , 12, 2719-2727	16.7	26
41	History, rare, and multiple events of mechanical unfolding of repeat proteins. <i>Journal of Chemical Physics</i> , 2018 , 148, 123335	3.9	11
40	High-Speed Force Spectroscopy for Single Protein Unfolding. <i>Methods in Molecular Biology</i> , 2018 , 1814, 243-264	1.4	8
39	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
38	High-frequency microrheology reveals cytoskeleton dynamics in living cells. <i>Nature Physics</i> , 2017 , 13, 771-775	16.2	118
37	Standardized Nanomechanical Atomic Force Microscopy Procedure (SNAP) for Measuring Soft and Biological Samples. <i>Scientific Reports</i> , 2017 , 7, 5117	4.9	123
36	Mutation in the Core Structure of Desmin Intermediate Filaments Affects Myoblast Elasticity. <i>Biophysical Journal</i> , 2017 , 113, 627-636	2.9	5

35	Glasslike Membrane Protein Diffusion in a Crowded Membrane. <i>ACS Nano</i> , 2016 , 10, 2584-90	16.7	33
34	High Frequency Microrheology of Living Cells. <i>Biophysical Journal</i> , 2016 , 110, 132a	2.9	2
33	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
32	High-speed atomic force microscopy: imaging and force spectroscopy. <i>FEBS Letters</i> , 2014 , 588, 3631-8	3.8	49
31	Cannabinoid-induced actomyosin contractility shapes neuronal morphology and growth. <i>ELife</i> , 2014 , 3, e03159	8.9	49
30	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
29	High-speed force spectroscopy unfolds titin at the velocity of molecular dynamics simulations. <i>Science</i> , 2013 , 342, 741-3	33.3	184
28	Mechanics of proteins with a focus on atomic force microscopy. <i>Journal of Nanobiotechnology</i> , 2013 , 11 Suppl 1, S3	9.4	17
27	The mechanics of membrane proteins is a signature of biological function. <i>Soft Matter</i> , 2013 , 9, 7866	3.6	6
26	Structural and mechanical heterogeneity of the erythrocyte membrane reveals hallmarks of membrane stability. <i>ACS Nano</i> , 2013 , 7, 1054-63	16.7	57
25	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
24	Elongated membrane tethers, individually anchored by high affinity $\alpha 1$ /VCAM-1 complexes, are the quantal units of monocyte arrests. <i>PLoS ONE</i> , 2013 , 8, e64187	3.7	18
23	Direct measurement of the mechanical properties of lipid phases in supported bilayers. <i>Biophysical Journal</i> , 2012 , 102, L01-3	2.9	147
22	Nanomechanical characterization of the stiffness of eye lens cells: a pilot study 2012 , 53, 2151-6		14
21	Mechanical mapping of single membrane proteins at submolecular resolution. <i>Nano Letters</i> , 2011 , 11, 3983-6	11.5	114
20	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
19	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
18	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

17	Probing Cellular Adhesion at the Single-Molecule Level 2011 , 225-261		4
16	Force-clamp measurements of receptor-ligand interactions. <i>Methods in Molecular Biology</i> , 2011 , 736, 331-53	1.4	3
15	Structural and Mechanical Mechanisms of Ocular Tissues Probed by AFM. <i>Nanoscience and Technology</i> , 2010 , 363-393	0.6	0
14	Temperature modulation of integrin-mediated cell adhesion. <i>Biophysical Journal</i> , 2010 , 99, 1387-96	2.9	48
13	Experimental evidence for membrane-mediated protein-protein interaction. <i>Biophysical Journal</i> , 2010 , 99, L47-9	2.9	65
12	Atomic Force Microscopy Studies of the Mechanical Properties of Living Cells 2010 , 533-553		1
11	Pulling force generated by interacting SNAREs facilitates membrane hemifusion. <i>Integrative Biology (United Kingdom)</i> , 2009 , 1, 301-10	3.7	17
10	Atomic Force Microscopy of Protein-Protein Interactions 2009 , 555		10
9	Atomic Force Microscopy Studies of the Mechanical Properties of Living Cells 2008 , 89-109		1
8	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
7	Energy landscape roughness of the streptavidin-biotin interaction. <i>Journal of Molecular Recognition</i> , 2007 , 20, 495-501	2.6	76
6	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
5	Stability of microfabricated high aspect ratio structures in poly(dimethylsiloxane). <i>Langmuir</i> , 2005 , 21, 5542-8	4	122
4	Thrombin and histamine induce stiffening of alveolar epithelial cells. <i>Journal of Applied Physiology</i> , 2005 , 98, 1567-74	3.7	54
3	Nanomechanics of lung epithelial cells. <i>International Journal of Nanotechnology</i> , 2005 , 2, 180	1.5	6
2	Vibration enhances interleukin-8 release in a cell model of snoring-induced airway inflammation. <i>Sleep</i> , 2005 , 28, 1312-6	1.1	73
1	Oscillatory magnetic tweezers based on ferromagnetic beads and simple coaxial coils. <i>Review of Scientific Instruments</i> , 2003 , 74, 4012-4020	1.7	24