Haguy Wolfenson

List of Publications by Year
in descending order

30 papers	2,132 citations	471061 17 h-index	610482 24 g-index
35 all docs	35 docs citations	35 times ranked	3240 citing authors

#	Article	IF	Citations
1	Appreciating force and shape â€" the rise of mechanotransduction in cell biology. Nature Reviews Molecular Cell Biology, 2014, 15, 825-833.	16.1	634
2	Dynamic Regulation of the Structure and Functions of Integrin Adhesions. Developmental Cell, 2013, 24, 447-458.	3.1	224
3	Actomyosin-generated tension controls the molecular kinetics of focal adhesions. Journal of Cell Science, 2011, 124, 1425-1432.	1.2	171
4	Steps in Mechanotransduction Pathways that Control Cell Morphology. Annual Review of Physiology, 2019, 81, 585-605.	5.6	169
5	Tropomyosin controls sarcomere-like contractions for rigidity sensing and suppressing growth on softÂmatrices. Nature Cell Biology, 2016, 18, 33-42.	4.6	168
6	The heel and toe of the cell's foot: A multifaceted approach for understanding the structure and dynamics of focal adhesions. Cytoskeleton, 2009, 66, 1017-1029.	4.4	107
7	Stopping transformed cancer cell growth by rigidity sensing. Nature Materials, 2020, 19, 239-250.	13.3	81
8	Mechanosensing Controlled Directly by Tyrosine Kinases. Nano Letters, 2016, 16, 5951-5961.	4.5	74
9	A Role for the Juxtamembrane Cytoplasm in the Molecular Dynamics of Focal Adhesions. PLoS ONE, 2009, 4, e4304.	1.1	69
10	Î±-Actinin links extracellular matrix rigidity-sensing contractile units with periodic cell-edge retractions. Molecular Biology of the Cell, 2016, 27, 3471-3479.	0.9	68
11	EGFR and HER2 activate rigidity sensing only on rigid matrices. Nature Materials, 2017, 16, 775-781.	13.3	68
12	Early Events in Cell Spreading as a Model for Quantitative Analysis of Biomechanical Events. Biophysical Journal, 2014, 107, 2508-2514.	0.2	57
13	Differential Effect of Actomyosin Relaxation on the Dynamic Properties of Focal Adhesion Proteins. PLoS ONE, 2013, 8, e73549.	1.1	52
14	Force-Induced Calpain Cleavage of Talin Is Critical for Growth, Adhesion Development, and Rigidity Sensing. Nano Letters, 2017, 17, 7242-7251.	4.5	44
15	Cellular contractile forces are nonmechanosensitive. Science Advances, 2020, 6, eaaz6997.	4.7	37
16	Molecular Occupancy of Nanodot Arrays. ACS Nano, 2016, 10, 4173-4183.	7.3	26
17	Accurate Quantification of Diffusion and Binding Kinetics of Nonâ€integral Membrane Proteins by FRAP. Traffic, 2011, 12, 1648-1657.	1.3	23
18	SPANX Control of Lamin A/C Modulates Nuclear Architecture and Promotes Melanoma Growth. Molecular Cancer Research, 2020, 18, 1560-1573.	1.5	13

#	Article	IF	Citations
19	The â€˜Yin and Yangâ€™ of Cancer Cell Growth and Mechanosensing. Cancers, 2021, 13, 4754.	1.7	10
20	Tumor Suppressor DAPK1 Catalyzes Adhesion Assembly on Rigid but Anoikis on Soft Matrices. Frontiers in Cell and Developmental Biology, 0, 10, .	1.8	7
21	Breast Cancer-Derived Microparticles Reduce Cancer Cell Adhesion, an Effect Augmented by Chemotherapy. Cells, 2020, 9, 2269.	1.8	5
22	Motion magnification analysis of microscopy videos of biological cells. PLoS ONE, 2020, 15, e0240127.	1.1	5
23	Stem cell responses to stretch and strain. Trends in Cell Biology, 2022, 32, 4-7.	3.6	5
24	S-nitrosocysteine and glutathione depletion synergize to induce cell death in human tumor cells: Insights into the redox and cytotoxic mechanisms. Free Radical Biology and Medicine, 2020, 160, 566-574.	1.3	3
25	Î±-Catenin links integrin adhesions to F-actin to regulate ECM mechanosensing and rigidity dependence. Journal of Cell Biology, 2022, 221, .	2.3	2
26	Force Loading During Mechanosensing Emerges from Non-Mechanosensitive Active Displacements. Biophysical Journal, 2019, 116, 379a.	0.2	0
27	Motion magnification analysis of microscopy videos of biological cells. , 2020, 15, e0240127.		0
28	Motion magnification analysis of microscopy videos of biological cells. , 2020, 15, e0240127.		0
29	Motion magnification analysis of microscopy videos of biological cells. , 2020, 15, e0240127.		0
30	Motion magnification analysis of microscopy videos of biological cells. , 2020, 15, e0240127.		0