

Benedikt Sabass

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6113651/publications.pdf>

Version: 2024-02-01

20
papers

3,346
citations

567281

15
h-index

752698

20
g-index

20
all docs

20
docs citations

20
times ranked

4370
citing authors

#	ARTICLE	IF	CITATIONS
1	Force Fluctuations within Focal Adhesions Mediate ECM-Rigidity Sensing to Guide Directed Cell Migration. <i>Cell</i> , 2012, 151, 1513-1527.	28.9	716
2	High Resolution Traction Force Microscopy Based on Experimental and Computational Advances. <i>Biophysical Journal</i> , 2008, 94, 207-220.	0.5	514
3	Cell-ECM traction force modulates endogenous tension at cell-cell contacts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4708-4713.	7.1	448
4	Traction stress in focal adhesions correlates biphasically with actin retrograde flow speed. <i>Journal of Cell Biology</i> , 2008, 183, 999-1005.	5.2	422
5	Extracellular rigidity sensing by talin isoform-specific mechanical linkages. <i>Nature Cell Biology</i> , 2015, 17, 1597-1606.	10.3	278
6	Size-dependent control of colloid transport via solute gradients in dead-end channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 257-261.	7.1	189
7	High-Resolution Traction Force Microscopy. <i>Methods in Cell Biology</i> , 2014, 123, 367-394.	1.1	181
8	Plasmodium Sporozoite Motility Is Modulated by the Turnover of Discrete Adhesion Sites. <i>Cell Host and Microbe</i> , 2009, 6, 551-562.	11.0	163
9	Verticalization of bacterial biofilms. <i>Nature Physics</i> , 2018, 14, 954-960.	16.7	92
10	Modeling cytoskeletal flow over adhesion sites: competition between stochastic bond dynamics and intracellular relaxation. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 194112.	1.8	60
11	Nonlinear, electrocatalytic swimming in the presence of salt. <i>Journal of Chemical Physics</i> , 2012, 136, 214507.	3.0	51
12	Efficiency of Surface-Driven Motion: Nanoswimmers Beat Microswimmers. <i>Physical Review Letters</i> , 2010, 105, 218103.	7.8	50
13	Optimization of traction force microscopy for micron-sized focal adhesions. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 194104.	1.8	48
14	Traction force microscopy with optimized regularization and automated Bayesian parameter selection for comparing cells. <i>Scientific Reports</i> , 2019, 9, 539.	3.3	48
15	Force generation by groups of migrating bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7266-7271.	7.1	39
16	Mechanics regulates ATP-stimulated collective calcium response in fibroblast cells. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150140.	3.4	14
17	A Bayesian traction force microscopy method with automated denoising in a user-friendly software package. <i>Computer Physics Communications</i> , 2020, 256, 107313.	7.5	14
18	Substrate-rigidity dependent migration of an idealized twitching bacterium. <i>Soft Matter</i> , 2019, 15, 6224-6236.	2.7	8

#	ARTICLE	IF	CITATIONS
19	Generic self-stabilization mechanism for biomolecular adhesions under load. Nature Communications, 2022, 13, 2197.	12.8	6
20	Fluctuating, Lorentz-force-like coupling of Langevin equations and heat flux rectification. Physical Review E, 2017, 96, 022109.	2.1	5