

Anatol W Fritsch

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

1,418
citations

567281

15
h-index

940533

16
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22
all docs

22
docs citations

22
times ranked

2122
citing authors

#	ARTICLE	IF	CITATIONS
1	Charge-density reduction promotes ribozyme activity in RNA-peptide coacervates via RNA fluidization and magnesium partitioning. <i>Nature Chemistry</i> , 2022, 14, 407-416.	13.6	41
2	Cell and Nucleus Shape as an Indicator of Tissue Fluidity in Carcinoma. <i>Physical Review X</i> , 2021, 11, .	8.9	46
3	A hydraulic instability drives the cell death decision in the nematode germline. <i>Nature Physics</i> , 2021, 17, 920-925.	16.7	38
4	Local thermodynamics govern formation and dissolution of <i>Caenorhabditis elegans</i> P granule condensates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	64
5	Regulated changes in material properties underlie centrosome disassembly during mitotic exit. <i>Journal of Cell Biology</i> , 2020, 219, .	5.2	49
6	Condensation of Ded1p Promotes a Translational Switch from Housekeeping to Stress Protein Production. <i>Cell</i> , 2020, 181, 818-831.e19.	28.9	130
7	Acetylation of intrinsically disordered regions regulates phase separation. <i>Nature Chemical Biology</i> , 2019, 15, 51-61.	8.0	190
8	Non-invasive perturbations of intracellular flow reveal physical principles of cell organization. <i>Nature Cell Biology</i> , 2018, 20, 344-351.	10.3	130
9	Testing the differential adhesion hypothesis across the epithelial-mesenchymal transition. <i>New Journal of Physics</i> , 2015, 17, 083049.	2.9	85
10	The lensing effect of trapped particles in a dual-beam optical trap. <i>Optics Express</i> , 2015, 23, 5221.	3.4	13
11	Active contractions in single suspended epithelial cells. <i>European Biophysics Journal</i> , 2014, 43, 11-23.	2.2	18
12	Thermal instability of cell nuclei. <i>New Journal of Physics</i> , 2014, 16, 073009.	2.9	23
13	Keratins significantly contribute to cell stiffness and impact invasive behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18507-18512.	7.1	229
14	Tuning liver stiffness against tumours: An in vitro study using entrapped cells in tumour-like microcapsules. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 9, 113-121.	3.1	27
15	Are biomechanical changes necessary for tumour progression?. <i>Nature Physics</i> , 2010, 6, 730-732.	16.7	179
16	The optical cell rotator. <i>Optics Express</i> , 2008, 16, 16984.	3.4	119
17	How to apply FLUCS in single cells and living embryos. <i>Protocol Exchange</i> , 0, , .	0.3	2