

François Graner

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

3,665
citations

623734

14
h-index

752698

20
g-index

26
all docs

26
docs citations

26
times ranked

3109
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulation of biological cell sorting using a two-dimensional extended Potts model. <i>Physical Review Letters</i> , 1992, 69, 2013-2016.	7.8	1,117
2	Simulation of the differential adhesion driven rearrangement of biological cells. <i>Physical Review E</i> , 1993, 47, 2128-2154.	2.1	671
3	Mechanical Control of Morphogenesis by Fat/Dachsous/Four-Jointed Planar Cell Polarity Pathway. <i>Science</i> , 2012, 336, 724-727.	12.6	341
4	The role of fluctuations and stress on the effective viscosity of cell aggregates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 17271-17275.	7.1	183
5	Cell adhesion and cortex contractility determine cell patterning in the <i>Drosophila</i> retina. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18549-18554.	7.1	177
6	Unified quantitative characterization of epithelial tissue development. <i>ELife</i> , 2015, 4, .	6.0	175
7	Measuring forces and stresses <i>in situ</i> in living tissues. <i>Development (Cambridge)</i> , 2016, 143, 186-196.	2.5	163
8	PTEN Controls Junction Lengthening and Stability during Cell Rearrangement in Epithelial Tissue. <i>Developmental Cell</i> , 2013, 25, 534-546.	7.0	119
9	Mechanical state, material properties and continuous description of an epithelial tissue. <i>Journal of the Royal Society Interface</i> , 2012, 9, 2614-2623.	3.4	91
10	Collective cell migration without proliferation: density determines cell velocity and wave velocity. <i>Royal Society Open Science</i> , 2018, 5, 172421.	2.4	90
11	Can Surface Adhesion Drive Cell-rearrangement? Part I: Biological Cell-sorting. <i>Journal of Theoretical Biology</i> , 1993, 164, 455-476.	1.7	69
12	Modulation of junction tension by tumor-suppressors and proto-oncogenes regulates cell-cell contacts. <i>Development (Cambridge)</i> , 2016, 143, 623-34.	2.5	48
13	Colloquium: Mechanical formalisms for tissue dynamics. <i>European Physical Journal E</i> , 2015, 38, 121.	1.6	39
14	“The Forms of Tissues, or Cell-aggregates”: D'Arcy Thompson's influence and its limits. <i>Development (Cambridge)</i> , 2017, 144, 4226-4237.	2.5	33
15	Inferring cell junction tension and pressure from cell geometry. <i>Development (Cambridge)</i> , 2021, 148, dev192773.	2.5	24
16	Statistical mechanics of two-dimensional shuffled foams: Geometry-topology correlation in small or large disorder limits. <i>Physical Review E</i> , 2014, 89, 062309.	2.1	14
17	Live 3D imaging and mapping of shear stresses within tissues using incompressible elastic beads. <i>Development (Cambridge)</i> , 2022, 149, .	2.5	8
18	Robustness of force and stress inference in an epithelial tissue. , 2013, 2013, 2712-5.		7

#	ARTICLE	IF	CITATIONS
19	A morphological trait involved in reproductive isolation between <i>Drosophila</i> sister species is sensitive to temperature. <i>Ecology and Evolution</i> , 2021, 11, 7492-7506.	1.9	4
20	Unified presentation of four fundamental inequalities. <i>European Journal of Physics</i> , 2018, 39, 025806.	0.6	1
21	Shape-velocity correlation defines polarization in migrating cell simulations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022, 587, 126511.	2.6	1