FranÃ§ois Graner

List of Publications by Year
in descending order

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	Shapeâ€“velocity correlation defines polarization in migrating cell simulations. Physica A: Statistical Mechanics and Its Applications, 2022, 587, 126511.	2.6	1
2	Live 3D imaging and mapping of shear stresses within tissues using incompressible elastic beads. Development (Cambridge), 2022, 149, .	2.5	8
3	Inferring cell junction tension and pressure from cell geometry. Development (Cambridge), 2021, 148, dev192773.	2.5	24
4	A morphological trait involved in reproductive isolation between Drosophila sister species is sensitive to temperature. Ecology and Evolution, 2021, 11, 7492-7506.	1.9	4
5	Collective cell migration without proliferation: density determines cell velocity and wave velocity. Royal Society Open Science, 2018, 5, 172421.	2.4	90
6	Unified presentation of four fundamental inequalities. European Journal of Physics, 2018, 39, 025806.	0.6	1
7	â€˜The Forms of Tissues, or Cell-aggregatesâ€™: D'Arcy Thompson's influence and its limits. Development (Cambridge), 2017, 144, 4226-4237.	2.5	33
8	Modulation of junction tension by tumor-suppressors and proto-oncogenes regulates cell-cell contacts. Development (Cambridge), 2016, 143, 623-34.	2.5	48
9	Measuring forces and stressesin situin living tissues. Development (Cambridge), 2016, 143, 186-196.	2.5	163
10	Colloquium: Mechanical formalisms for tissue dynamics. European Physical Journal E, 2015, 38, 121.	1.6	39
11	Unified quantitative characterization of epithelial tissue development. ELife, 2015, 4, .	6.0	175
12	Statistical mechanics of two-dimensional shuffled foams: Geometry-topology correlation in small or large disorder limits. Physical Review E, 2014, 89, 062309.	2.1	14
13	PTEN Controls Junction Lengthening and Stability during Cell Rearrangement in Epithelial Tissue. Developmental Cell, 2013, 25, 534-546.	7.0	119
14	Robustness of force and stress inference in an epithelial tissue. , 2013, 2013, 2712-5.		7
15	Mechanical Control of Morphogenesis by Fat/Dachsous/Four-Jointed Planar Cell Polarity Pathway. Science, 2012, 336, 724-727.	12.6	341
16	Mechanical state, material properties and continuous description of an epithelial tissue. Journal of the Royal Society Interface, 2012, 9, 2614-2623.	3.4	91
17	The role of fluctuations and stress on the effective viscosity of cell aggregates. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17271-17275.	7.1	183
18	Cell adhesion and cortex contractility determine cell patterning in the Drosophila retina. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18549-18554.	7.1	177

#	Article	IF	Citations
19	Can Surface Adhesion Drive Cell-rearrangement? Part I: Biological Cell-sorting. Journal of Theoretical Biology, 1993, 164, 455-476.	1.7	69
20	Simulation of the differential adhesion driven rearrangement of biological cells. Physical Review E, 1993, 47, 2128-2154.	2.1	671
21	Simulation of biological cell sorting using a two-dimensional extended Potts model. Physical Review Letters, 1992, 69, 2013-2016.	7.8	1,117