Marc Durand

List of Publications by Year
in descending order

15	309	1163117 8	996975 15
papers	citations	h-index	g-index

17	17	17	334
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Relaxation Time of the TopologicalT1Process in a Two-Dimensional Foam. Physical Review Letters, 2006, 97, 226101.	7.8	121
2	Stiffest elastic networks. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20130611.	2.1	54
3	Statistical Mechanics of Two-Dimensional Shuffled Foams: Prediction of the Correlation between Geometry and Topology. Physical Review Letters, 2011, 107, 168304.	7.8	25
4	Thermally Driven Order-Disorder Transition in Two-Dimensional Soft Cellular Systems. Physical Review Letters, 2019, 123, 188001.	7.8	22
5	Foam drainage. Possible influence of a non-newtonian surface shear viscosity. Journal of Colloid and Interface Science, 2015, 449, 373-376.	9.4	20
6	An efficient Cellular Potts Model algorithm that forbids cell fragmentation. Computer Physics Communications, 2016, 208, 54-63.	7.5	17
7	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
8	Hydrodynamics of bilayer membranes with diffusing transmembrane proteins. Soft Matter, 2016, 12, 1791-1800.	2.7	10
9	Mechanical approach to surface tension and capillary phenomena. American Journal of Physics, 2021, 89, 261-266.	0.7	7
10	Large-scale simulations of biological cell sorting driven by differential adhesion follow diffusion-limited domain coalescence regime. PLoS Computational Biology, 2021, 17, e1008576.	3.2	6
11	Statistical mechanics of two-dimensional foams: Physical foundations of the model. European Physical Journal E, 2015, 38, 137.	1.6	4
12	On the mechanics of tetrakis-like lattices in the stretch-dominated regime. Extreme Mechanics Letters, 2017, 15, 57-62.	4.1	3
13	Thermal shape fluctuations of a two-dimensional compressible droplet. Soft Matter, 2020, 16, 10358-10367.	2.7	3
14	Frame tension governs the thermal fluctuations of a fluid membrane: new evidence. Soft Matter, 2022, 18, 3891-3901.	2.7	2
15	Quasistatic rheology of soft cellular systems using the cellular Potts model. Physical Review E, 2021, 104, 055303.	2.1	0