

Marc Durand

List of Publications by Year in descending order

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15
papers

309
citations

1163117

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996975

15
g-index

17
all docs

17
docs citations

17
times ranked

334
citing authors

#	ARTICLE	IF	CITATIONS
1	Frame tension governs the thermal fluctuations of a fluid membrane: new evidence. <i>Soft Matter</i> , 2022, 18, 3891-3901.	2.7	2
2	Mechanical approach to surface tension and capillary phenomena. <i>American Journal of Physics</i> , 2021, 89, 261-266.	0.7	7
3	Large-scale simulations of biological cell sorting driven by differential adhesion follow diffusion-limited domain coalescence regime. <i>PLoS Computational Biology</i> , 2021, 17, e1008576.	3.2	6
4	Quasistatic rheology of soft cellular systems using the cellular Potts model. <i>Physical Review E</i> , 2021, 104, 055303.	2.1	0
5	Thermal shape fluctuations of a two-dimensional compressible droplet. <i>Soft Matter</i> , 2020, 16, 10358-10367.	2.7	3
6	Thermally Driven Order-Disorder Transition in Two-Dimensional Soft Cellular Systems. <i>Physical Review Letters</i> , 2019, 123, 188001.	7.8	22
7	On the mechanics of tetrakis-like lattices in the stretch-dominated regime. <i>Extreme Mechanics Letters</i> , 2017, 15, 57-62.	4.1	3
8	An efficient Cellular Potts Model algorithm that forbids cell fragmentation. <i>Computer Physics Communications</i> , 2016, 208, 54-63.	7.5	17
9	Hydrodynamics of bilayer membranes with diffusing transmembrane proteins. <i>Soft Matter</i> , 2016, 12, 1791-1800.	2.7	10
10	Statistical mechanics of two-dimensional foams: Physical foundations of the model. <i>European Physical Journal E</i> , 2015, 38, 137.	1.6	4
11	Foam drainage. Possible influence of a non-newtonian surface shear viscosity. <i>Journal of Colloid and Interface Science</i> , 2015, 449, 373-376.	9.4	20
12	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
13	Stiffest elastic networks. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014, 470, 20130611.	2.1	54
14	Statistical Mechanics of Two-Dimensional Shuffled Foams: Prediction of the Correlation between Geometry and Topology. <i>Physical Review Letters</i> , 2011, 107, 168304.	7.8	25
15	Relaxation Time of the Topological T1 Process in a Two-Dimensional Foam. <i>Physical Review Letters</i> , 2006, 97, 226101.	7.8	121