Daniel M Sussman

List of Publications by Year
in descending order

29	1,027	394421	434195
papers	citations	19 h-index	31 g-index

34	34	34	1111
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Making the Cut: LatticeKirigamiRules. Physical Review Letters, 2014, 113, 245502.	7.8	123
2	Algorithmic lattice kirigami: A route to pluripotent materials. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7449-7453.	7.1	119
3	Disconnecting structure and dynamics in glassy thin films. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10601-10605.	7.1	66
4	cellGPU: Massively parallel simulations of dynamic vertex models. Computer Physics Communications, 2017, 219, 400-406.	7.5	65
5	Soft yet Sharp Interfaces in a Vertex Model of Confluent Tissue. Physical Review Letters, 2018, 120, 058001.	7.8	52
6	Anomalous glassy dynamics in simple models of dense biological tissue. Europhysics Letters, 2018, 121, 36001.	2.0	49
7	Additive lattice kirigami. Science Advances, 2016, 2, e1601258.	10.3	47
8	Cell and Nucleus Shape as an Indicator of Tissue Fluidity in Carcinoma. Physical Review X, 2021, 11, .	8.9	46
9	No unjamming transition in a Voronoi model of biological tissue. Soft Matter, 2018, 14, 3397-3403.	2.7	41
10	Cell cycleâ€“dependent active stress drives epithelia remodeling. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	41
11	Curvature-dependent tension and tangential flows at the interface of motility-induced phases. Soft Matter, 2018, 14, 7435-7445.	2.7	40
12	Glassy dynamics in models of confluent tissue with mitosis and apoptosis. Soft Matter, 2019, 15, 9133-9149.	2.7	38
13	Small-scale demixing in confluent biological tissues. Soft Matter, 2020, 16, 3325-3337.	2.7	34
14	Entangled Rigid Macromolecules under Continuous Startup Shear Deformation: Consequences of a Microscopically Anharmonic Confining Tube. Macromolecules, 2013, 46, 5684-5693.	4.8	33
15	Topological boundary modes in jammed matter. Soft Matter, 2016, 12, 6079-6087.	2.7	28
16	Entangled polymer chain melts: Orientation and deformation dependent tube confinement and interchain entanglement elasticity. Journal of Chemical Physics, 2013, 139, 234904.	3.0	26
17	Spatial distribution of entanglements in thin free-standing films. Physical Review E, 2016, 94, 012503.	2.1	21
18	Fast, Scalable, and Interactive Software for Landau-de Gennes Numerical Modeling of Nematic Topological Defects. Frontiers in Physics, 2019, 7, .	2.1	20

#	Article	IF	Citations
19	Spatial structure of states of self stress in jammed systems. Soft Matter, 2016, 12, 3982-3990.	2.7	19
20	Geometry of the Cholesteric Phase. Physical Review X, 2014, 4, .	8.9	18
21	Interplay of curvature and rigidity in shape-based models of confluent tissue. Physical Review Research, 2020, 2, .	3.6	16
22	Vibrational and structural signatures of the crossover between dense glassy and sparse gel-like attractive colloidal packings. Physical Review E, 2014, 90, 062305.	2.1	12
23	Quantifying the link between local structure and cellular rearrangements using information in models of biological tissues. Soft Matter, 2021, 17, 10242-10253.	2.7	12
24	States that â€œlook the sameâ€•with respect to every basis in a mutually unbiased set. Journal of Mathematical Physics, 2014, 55, 122206.	1.1	10
25	Disordered surface vibrations in jammed sphere packings. Soft Matter, 2015, 11, 2745-2751.	2.7	7
26	Non-monotonic fluidization generated by fluctuating edge tensions in confluent tissues. Soft Matter, 2022, 18, 2168-2175.	2.7	7
27	Strain fluctuations and elastic moduli in disordered solids. Physical Review E, 2015, 92, 022307.	2.1	6
28	Hierarchical structure of the energy landscape in the Voronoi model of dense tissue. Physical Review Research, 2022, 4, .	3.6	3
29	Reply to the â€˜Comment on â€œSpatial structure of states of self stress in jammed systemsâ€â€™ by E. Lerner, Soft Matter, 2017,13, DOI: 10.1039/c6sm01111j. Soft Matter, 2017, 13, 1532-1533.	2.7	1