Dapeng Bi

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9503647/publications.pdf

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30	3,348	331259 21	454577 30
papers	citations	h-index	g-index

35	35	35	2344
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A density-independent rigidity transition in biological tissues. Nature Physics, 2015, 11, 1074-1079.	6.5	565
2	Jamming by shear. Nature, 2011, 480, 355-358.	13.7	530
3	Unjamming and cell shape in the asthmatic airwayÂepithelium. Nature Materials, 2015, 14, 1040-1048.	13.3	484
4	Motility-Driven Glass and Jamming Transitions in Biological Tissues. Physical Review X, 2016, 6, .	2.8	417
5	Geometric constraints during epithelial jamming. Nature Physics, 2018, 14, 613-620.	6.5	196
6	Energy barriers and cell migration in densely packed tissues. Soft Matter, 2014, 10, 1885.	1.2	163
7	Flocking transitions in confluent tissues. Soft Matter, 2018, 14, 3471-3477.	1.2	114
8	In primary airway epithelial cells, the unjamming transition is distinct from the epithelial-to-mesenchymal transition. Nature Communications, 2020, 11, 5053.	5.8	107
9	The Statistical Physics of Athermal Materials. Annual Review of Condensed Matter Physics, 2015, 6, 63-83.	5.2	102
10	Correlating cell shape and cellular stress in motile confluent tissues. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12663-12668.	3.3	92
11	Cooperation of dual modes of cell motility promotes epithelial stress relaxation to accelerate wound healing. PLoS Computational Biology, 2018, 14, e1006502.	1.5	53
12	Wound healing coordinates actin architectures to regulate mechanical work. Nature Physics, 2019, 15, 696-705.	6.5	52
13	Why Do Granular Materials Stiffen with Shear Rate? Test of Novel Stress-Based Statistics. Physical Review Letters, 2008, 101, 268301.	2.9	44
14	Origin of Rigidity in Dry Granular Solids. Physical Review Letters, 2013, 111, 068301.	2.9	43
15	Unjamming and collective migration in MCF10A breast cancer cell lines. Biochemical and Biophysical Research Communications, 2020, 521, 706-715.	1.0	42
16	Multicellular Rosettes Drive Fluid-solid Transition in Epithelial Tissues. Physical Review X, 2019, 9, .	2.8	41
17	Mechanical Heterogeneity in Tissues Promotes Rigidity and Controls Cellular Invasion. Physical Review Letters, 2019, 123, 058101.	2.9	34
18	Energetics of mesoscale cell turbulence in two-dimensional monolayers. Communications Physics, 2021, 4, .	2.0	34

#	Article	IF	Citations
19	Statistical properties of granular materials near jamming. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P06004.	0.9	30
20	Shear-induced rigidity of frictional particles: Analysis of emergent order in stress space. Physical Review E, 2016, 93, 042901.	0.8	28
21	Hydrodynamics of shape-driven rigidity transitions in motile tissues. Soft Matter, 2018, 14, 5628-5642.	1.2	25
22	Irradiation Induces Epithelial Cell Unjamming. Frontiers in Cell and Developmental Biology, 2020, 8, 21.	1.8	22
23	Biological tissue-inspired tunable photonic fluid. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6650-6655.	3.3	21
24	Shear-Driven Solidification and Nonlinear Elasticity in Epithelial Tissues. Physical Review Letters, 2022, 128, 178001.	2.9	21
25	Dynamic instability and migration modes of collective cells in channels. Journal of the Royal Society Interface, 2019, 16, 20190258.	1.5	18
26	Rheology of granular materials: dynamics in a stress landscape. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 5073-5090.	1.6	13
27	Fluctuations in shear-jammed states: A statistical ensemble approach. Europhysics Letters, 2013, 102, 34002.	0.7	12
28	Configurational fingerprints of multicellular living systems. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	10
29	Controlled Neighbor Exchanges Drive Glassy Behavior, Intermittency, and Cell Streaming in Epithelial Tissues. Physical Review X, 2021, 11, .	2.8	10
30	Logarithmic Strengthening of Granular Materials with Shear Rate. , 2009, , .		0