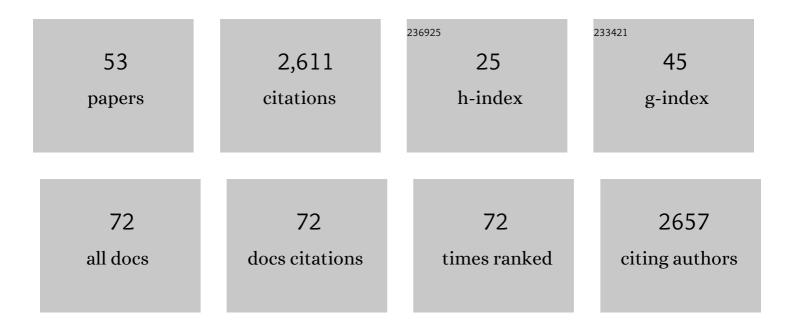
Shiladitya Banerjee

List of Publications by Year in descending order

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SHILADITYA RANEDIEE

#	Article	IF	CITATIONS
1	Cadherin-based intercellular adhesions organize epithelial cell–matrix traction forces. Proceedings of the United States of America, 2013, 110, 842-847.	7.1	215
2	Geometry Regulates Traction Stresses in Adherent Cells. Biophysical Journal, 2014, 107, 825-833.	0.5	211
3	Scaling of Traction Forces with the Size of Cohesive Cell Colonies. Physical Review Letters, 2012, 108, 198101.	7.8	158
4	Cellular Contraction and Polarization Drive Collective Cellular Motion. Biophysical Journal, 2016, 110, 2729-2738.	0.5	135
5	Tissue fluidity promotes epithelial wound healing. Nature Physics, 2019, 15, 1195-1203.	16.7	131
6	Disordered actomyosin networks are sufficient to produce cooperative and telescopic contractility. Nature Communications, 2016, 7, 12615.	12.8	108
7	Liquid behavior of cross-linked actin bundles. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2131-2136.	7.1	106
8	Propagating Stress Waves During Epithelial Expansion. Physical Review Letters, 2015, 114, 228101.	7.8	97
9	The Actin Cytoskeleton as an Active Adaptive Material. Annual Review of Condensed Matter Physics, 2020, 11, 421-439.	14.5	86
10	RhoA Mediates Epithelial Cell Shape Changes via Mechanosensitive Endocytosis. Developmental Cell, 2020, 52, 152-166.e5.	7.0	82
11	Structural basis for oligomerization and glycosaminoglycan binding of CCL5 and CCL3. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5000-5005.	7.1	72
12	A Versatile Framework for Simulating the Dynamic Mechanical Structure of Cytoskeletal Networks. Biophysical Journal, 2017, 113, 448-460.	0.5	66
13	Filament rigidity and connectivity tune the deformation modes of active biopolymer networks. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10037-E10045.	7.1	63
14	Surface-to-volume scaling and aspect ratio preservation in rod-shaped bacteria. ELife, 2019, 8, .	6.0	63
15	Local cellular neighborhood controls proliferation in cell competition. Molecular Biology of the Cell, 2017, 28, 3215-3228.	2.1	62
16	Contractile Stresses in Cohesive Cell Layers on Finite-Thickness Substrates. Physical Review Letters, 2012, 109, 108101.	7.8	60
17	Mechanosensitive Junction Remodeling Promotes Robust Epithelial Morphogenesis. Biophysical Journal, 2019, 117, 1739-1750.	0.5	59
18	Cooperation of dual modes of cell motility promotes epithelial stress relaxation to accelerate wound healing. PLoS Computational Biology, 2018, 14, e1006502.	3.2	53

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#	Article	IF	CITATIONS
19	Wound healing coordinates actin architectures to regulate mechanical work. Nature Physics, 2019, 15, 696-705.	16.7	52
20	Entropy production rate is maximized in non-contractile actomyosin. Nature Communications, 2018, 9, 4948.	12.8	48
21	Instabilities and oscillations in isotropic active gels. Soft Matter, 2011, 7, 463-473.	2.7	41
22	Substrate rigidity deforms and polarizes active gels. Europhysics Letters, 2011, 96, 28003.	2.0	41
23	Nutrient-Dependent Trade-Offs between Ribosomes and Division Protein Synthesis Control Bacterial Cell Size and Growth. Cell Reports, 2020, 32, 108183.	6.4	40
24	Biphasic growth dynamics control cell division in Caulobacter crescentus. Nature Microbiology, 2017, 2, 17116.	13.3	36
25	Nonequilibrium phase diagrams for actomyosin networks. Soft Matter, 2018, 14, 7740-7747.	2.7	35
26	Force localization modes in dynamic epithelial colonies. Molecular Biology of the Cell, 2018, 29, 2835-2847.	2.1	33
27	Controlling cell–matrix traction forces by extracellular geometry. New Journal of Physics, 2013, 15, 035015.	2.9	32
28	Active Viscoelastic Matter: From Bacterial Drag Reduction to Turbulent Solids. Physical Review Letters, 2015, 114, 098302.	7.8	31
29	Cell-scale biophysical determinants of cell competition in epithelia. ELife, 2021, 10, .	6.0	28
30	Mechanical feedback promotes bacterial adaptation to antibiotics. Nature Physics, 2021, 17, 403-409.	16.7	25
31	Shape dynamics of growing cell walls. Soft Matter, 2016, 12, 3442-3450.	2.7	24
32	Continuum Models of Collective Cell Migration. Advances in Experimental Medicine and Biology, 2019, 1146, 45-66.	1.6	24
33	Antibiotic Resistance via Bacterial Cell Shape-Shifting. MBio, 2022, 13, .	4.1	23
34	Heterogeneous Drying Stresses in Stratum Corneum. Biophysical Journal, 2012, 102, 2424-2432.	0.5	22
35	Cell-type-specific mechanical response and myosin dynamics during retinal lens development in <i>Drosophila</i> . Molecular Biology of the Cell, 2020, 31, 1355-1369.	2.1	19
36	Generic phases of cross-linked active gels: Relaxation, oscillation and contractility. Europhysics Letters, 2011, 96, 58004.	2.0	18

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37	Intergenerational continuity of cell shape dynamics in Caulobacter crescentus. Scientific Reports, 2015, 5, 9155.	3.3	17
38	Hindbrain neuropore tissue geometry determines asymmetric cell-mediated closure dynamics in mouse embryos. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	17
39	Force-dependent intercellular adhesion strengthening underlies asymmetric adherens junction contraction. Current Biology, 2022, 32, 1986-2000.e5.	3.9	17
40	Regulated Capture of Vκ Gene Topologically Associating Domains by Transcription Factories. Cell Reports, 2018, 24, 2443-2456.	6.4	16
41	Cellular resource allocation strategies for cell size and shape control in bacteria. FEBS Journal, 2022, 289, 7891-7906.	4.7	14
42	Polymorphism and bistability in adherent cells. Soft Matter, 2013, 9, 5251.	2.7	13
43	Optimal shapes and stresses of adherent cells on patterned substrates. Soft Matter, 2014, 10, 2424.	2.7	12
44	Filament Nucleation Tunes Mechanical Memory in Active Polymer Networks. Advanced Functional Materials, 2019, 29, 1905243.	14.9	12
45	Bacterial cell shape control by nutrient-dependent synthesis of cell division inhibitors. Biophysical Journal, 2021, 120, 2079-2084.	0.5	12
46	Pulsatile contractions and pattern formation in excitable actomyosin cortex. PLoS Computational Biology, 2022, 18, e1009981.	3.2	11
47	Single-cell approaches to cell competition: High-throughput imaging, machine learning and simulations. Seminars in Cancer Biology, 2020, 63, 60-68.	9.6	10
48	Adaptive viscoelasticity of epithelial cell junctions: from models to methods. Current Opinion in Genetics and Development, 2020, 63, 86-94.	3.3	8
49	Motor-driven dynamics of cytoskeletal filaments in motility assays. Physical Review E, 2011, 84, 011914.	2.1	6
50	Transcription factories in Ig $\hat{I}^{ m 2}$ allelic choice and diversity. Advances in Immunology, 2019, 141, 33-49.	2.2	5
51	Size-Regulated Symmetry Breaking in Reaction-Diffusion Models of Developmental Transitions. Cells, 2020, 9, 1646.	4.1	4
52	Emergence and maintenance of variable-length actin filaments in a limiting pool of building blocks. Biophysical Journal, 2022, 121, 2436-2448.	0.5	4
53	Size regulation of multiple organelles competing for a limiting subunit pool. PLoS Computational Biology, 2022, 18, e1010253.	3.2	4