

Dhananjay T Tambe

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

2,775
citations

623188

14
h-index

525886

27
g-index

34
all docs

34
docs citations

34
times ranked

3010
citing authors

#	ARTICLE	IF	CITATIONS
1	Collective cell guidance by cooperative intercellular forces. <i>Nature Materials</i> , 2011, 10, 469-475.	13.3	781
2	Unjamming and cell shape in the asthmatic airway epithelium. <i>Nature Materials</i> , 2015, 14, 1040-1048.	13.3	484
3	Mechanical waves during tissue expansion. <i>Nature Physics</i> , 2012, 8, 628-634.	6.5	418
4	Reinforcement versus Fluidization in Cytoskeletal Mechanoresponsiveness. <i>PLoS ONE</i> , 2009, 4, e5486.	1.1	232
5	Propulsion and navigation within the advancing monolayer sheet. <i>Nature Materials</i> , 2013, 12, 856-863.	13.3	161
6	Monolayer Stress Microscopy: Limitations, Artifacts, and Accuracy of Recovered Intercellular Stresses. <i>PLoS ONE</i> , 2013, 8, e55172.	1.1	156
7	Fluid shear, intercellular stress, and endothelial cell alignment. <i>American Journal of Physiology - Cell Physiology</i> , 2015, 308, C657-C664.	2.1	100
8	Fluidization and Resolidification of the Human Bladder Smooth Muscle Cell in Response to Transient Stretch. <i>PLoS ONE</i> , 2010, 5, e12035.	1.1	94
9	Mapping the cytoskeletal prestress. <i>American Journal of Physiology - Cell Physiology</i> , 2010, 298, C1245-C1252.	2.1	66
10	High-throughput screening for modulators of cellular contractile force. <i>Integrative Biology (United Kingdom)</i> , 2010, 2, 100-106.	0.6	60
11	Mechanosensing of substrate thickness. <i>Physical Review E</i> , 2010, 82, 041918.	0.8	58
12	Glassy Dynamics, Cell Mechanics, and Endothelial Permeability. <i>Journal of Physical Chemistry B</i> , 2013, 117, 12850-12856.	1.2	23
13	Comparative study of dimer-vacancies and dimer-vacancy lines on Si(100) and Ge(100). <i>Surface Science</i> , 2004, 556, 171-183.	0.8	16
14	Human Corneal Fibroblast Pattern Evolution and Matrix Synthesis on Mechanically Biased Substrates. <i>Tissue Engineering - Part A</i> , 2016, 22, 1204-1217.	1.6	16
15	Long-range stress transmission guides endothelial gap formation. <i>Biochemical and Biophysical Research Communications</i> , 2018, 495, 749-754.	1.0	16
16	First-principles calculations of step formation energies and step interactions on TiN(001). <i>Surface Science</i> , 2005, 582, 145-150.	0.8	15
17	Effects of micropatterned curvature on the motility and mechanical properties of airway smooth muscle cells. <i>Biochemical and Biophysical Research Communications</i> , 2011, 415, 591-596.	1.0	14
18	Exoenzyme Y induces extracellular active caspase-7 accumulation independent from apoptosis: modulation of transmissible cytotoxicity. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 319, L380-L390.	1.3	13

#	ARTICLE	IF	CITATIONS
19	And I hope you like jamming too. <i>New Journal of Physics</i> , 2015, 17, 091001.	1.2	11
20	Atomic-scale perspective on the origin of attractive step interactions on Si(113). <i>Physical Review B</i> , 2003, 68, .	1.1	10
21	Unleashing shear: Role of intercellular traction and cellular moments in collective cell migration. <i>Biochemical and Biophysical Research Communications</i> , 2020, 522, 279-285.	1.0	9
22	Mechanical signaling in a pulmonary microvascular endothelial cell monolayer. <i>Biochemical and Biophysical Research Communications</i> , 2019, 519, 337-343.	1.0	8
23	Impact of Na ⁺ permeation on collective migration of pulmonary arterial endothelial cells. <i>PLoS ONE</i> , 2021, 16, e0250095.	1.1	4
24	Collective cell guidance by cooperative intercellular forces. <i>Nature Precedings</i> , 2010, , .	0.1	3
25	Comment on "Intracellular stresses in patterned cell assemblies" by M. Moussus et al., <i>Soft Matter</i> , 2014, 10, 7681-7682.	1.2	3
26	Integrative Toolkit to Analyze Cellular Signals: Forces, Motion, Morphology, and Fluorescence. <i>Journal of Visualized Experiments</i> , 2022, , .	0.2	3
27	Carbonic anhydrase IX proteoglycan-like and intracellular domains mediate pulmonary microvascular endothelial cell repair and angiogenesis. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2022, 323, L48-L57.	1.3	1
28	Mechanomic Engagement Profile: Integrative Mapping of the Mechanical Properties that Inform Endothelial Cell Motion. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
29	An Automated <i>In Vitro</i> Experimental Platform to Analyze Structure, Motion and Forces in Adherent Cells. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
30	Monolayer Stress Microscopy: limitations, artifacts, and accuracy of recovered intercellular stresses. <i>FASEB Journal</i> , 2013, 27, 1217.5.	0.2	0
31	Navigation within the cellular monolayer. <i>FASEB Journal</i> , 2013, 27, 1217.18.	0.2	0
32	Building a theoretical framework to quantify alveolar injury. <i>Journal of Applied Physiology</i> , 2014, 117, 575-576.	1.2	0
33	Resolving tractions across cell-cell adhesion reveals the role of intercellular shear in plithotaxis. <i>FASEB Journal</i> , 2019, 33, lb593.	0.2	0