Chan Young Park

List of Publications by Year
in descending order

27 papers	2,562 citations	471509 17 h-index	580821 25 g-index
33 all docs	33 docs citations	33 times ranked	2980 citing authors

#	Article	IF	Citations
1	Collective cell guidance by cooperative intercellular forces. Nature Materials, 2011, 10, 469-475.	27.5	781
2	Unjamming and cell shape in the asthmatic airwayÂepithelium. Nature Materials, 2015, 14, 1040-1048.	27.5	484
3	Reinforcement versus Fluidization in Cytoskeletal Mechanoresponsiveness. PLoS ONE, 2009, 4, e5486.	2.5	232
4	Collective migration and cell jamming. Differentiation, 2013, 86, 121-125.	1.9	202
5	Propulsion and navigation within the advancing monolayer sheet. Nature Materials, 2013, 12, 856-863.	27.5	161
6	Monolayer Stress Microscopy: Limitations, Artifacts, and Accuracy of Recovered Intercellular Stresses. PLoS ONE, 2013, 8, e55172.	2.5	156
7	Mapping the cytoskeletal prestress. American Journal of Physiology - Cell Physiology, 2010, 298, C1245-C1252.	4.6	66
8	High-throughput screening for modulators of cellular contractile force. Integrative Biology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.3	60
9	Mechanosensing of substrate thickness. Physical Review E, 2010, 82, 041918.	2.1	58
10	Soft Hyaluronic Gels Promote Cell Spreading, Stress Fibers, Focal Adhesion, and Membrane Tension by Phosphoinositide Signaling, Not Traction Force. ACS Nano, 2019, 13, 203-214.	14.6	56
11	Probe Sensitivity to Cortical versus Intracellular Cytoskeletal Network Stiffness. Biophysical Journal, 2019, 116, 518-529.	0.5	46
12	Assessing the impact of engineered nanoparticles on wound healing using a novel in vitro bioassay. Nanomedicine, 2014, 9, 2803-2815.	3.3	38
13	A novel method to make viscoelastic polyacrylamide gels for cell culture and traction force microscopy. APL Bioengineering, 2020, 4, 036104.	6.2	36
14	Nuclear lamin isoforms differentially contribute to LINC complex-dependent nucleocytoskeletal coupling and whole-cell mechanics. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2121816119.	7.1	33
15	Epithelial layer unjamming shifts energy metabolism toward glycolysis. Scientific Reports, 2020, 10, 18302.	3.3	30
16	Homogenizing cellular tension by hepatocyte growth factor in expanding epithelial monolayer. Scientific Reports, 2017, 7, 45844.	3.3	20
17	Tumorigenic mesenchymal clusters are less sensitive to moderate osmotic stresses due to low amounts of junctional E-cadherin. Scientific Reports, 2021, 11, 16279.	3.3	19
18	Non-equilibrium cytoquake dynamics in cytoskeletal remodeling and stabilization. Soft Matter, 2016, 12, 8506-8511.	2.7	17

#	Article	IF	Citations
19	Anti-fibrotic effects of tannic acid through regulation of a sustained TGF-beta receptor signaling. Respiratory Research, 2019, 20, 168.	3.6	15
20	The tumor suppressor p53 can promote collective cellular migration. PLoS ONE, 2019, 14, e0202065.	2.5	12
21	Contact guidance and collective migration in the advancing epithelial monolayer. Connective Tissue Research, 2018, 59, 309-315.	2.3	11
22	Traction microscopy with integrated microfluidics: responses of the multi-cellular island to gradients of HGF. Lab on A Chip, 2019, 19, 1579-1588.	6.0	11
23	Airway smooth muscle tone increases actin filamentogenesis and contractile capacity. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 318, L442-L451.	2.9	8
24	Compressive Stress Causes an Unjamming Transition and an Epithelialâ€“Mesenchymal Transition in the Airway Epithelium in Asthma. Annals of the American Thoracic Society, 2016, 13, S102-S102.	3.2	5
25	Traction Microscopy Integrated with Microfluidics for Chemotactic Collective Migration. Journal of Visualized Experiments, 2019, , .	0.3	1
26	Navigation within the cellular monolayer. FASEB Journal, 2013, 27, 1217.18.	0.5	0
27	PS2-9 Integration of microfluidic chips with cellular traction measuring systems for studying differential collective cell migration(PS2: Poster Short Presentation II,Poster Session). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2015, 2015.8, 251.	0.0	0