Sungmin Nam

List of Publications by Year
in descending order

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20 papers	2,442 citations	516710 16 h-index	752698 20 g-index
21 all docs	21 docs citations	21 times ranked	2742 citing authors

#	Article	IF	Citations
1	Stress relaxing hyaluronic acid-collagen hydrogels promote cell spreading, fiber remodeling, and focal adhesion formation in 3D cell culture. Biomaterials, 2018, 154, 213-222.	11.4	368
2	Polymeric Tissue Adhesives. Chemical Reviews, 2021, 121, 11336-11384.	47.7	306
3	Matrix mechanical plasticity regulates cancer cell migration through confining microenvironments. Nature Communications, 2018, 9, 4144.	12.8	263
4	Strain-enhanced stress relaxation impacts nonlinear elasticity in collagen gels. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5492-5497.	7.1	217
5	Varying PEG density to control stress relaxation in alginate-PEG hydrogels for 3D cell culture studies. Biomaterials, 2019, 200, 15-24.	11.4	172
6	Viscoplasticity Enables Mechanical Remodeling ofÂMatrix by Cells. Biophysical Journal, 2016, 111, 2296-2308.	0.5	144
7	Matrix stiffness induces a tumorigenic phenotype in mammary epithelium through changes in chromatin accessibility. Nature Biomedical Engineering, 2019, 3, 1009-1019.	22.5	135
8	YAP-independent mechanotransduction drives breast cancer progression. Nature Communications, 2019, 10, 1848.	12.8	127
9	Experimental Verification of Overlimiting Current by Surface Conduction and Electro-Osmotic Flow in Microchannels. Physical Review Letters, 2015, 114, 114501.	7.8	112
10	Enhanced substrate stress relaxation promotes filopodia-mediated cell migration. Nature Materials, 2021, 20, 1290-1299.	27.5	111
11	Mechanisms of Plastic Deformation in Collagen Networks Induced by Cellular Forces. Biophysical Journal, 2018, 114, 450-461.	0.5	108
12	Cell cycle progression in confining microenvironments is regulated by a growth-responsive TRPV4-PI3K/Akt-p27 ^{Kip1} signaling axis. Science Advances, 2019, 5, eaaw6171.	10.3	107
13	Enhanced tendon healing by a tough hydrogel with an adhesive side and high drug-loading capacity. Nature Biomedical Engineering, 2022, 6, 1167-1179.	22.5	92
14	Mitotic cells generate protrusive extracellular forces to divide in three-dimensional microenvironments. Nature Physics, 2018, 14, 621-628.	16.7	79
15	Skeletal muscle regeneration with robotic actuationâ€“mediated clearance of neutrophils. Science Translational Medicine, 2021, 13, eabe8868.	12.4	42
16	Dynamic analysis during internal transition of a compliant multi-body climbing robot with magnetic adhesion. Journal of Mechanical Science and Technology, 2014, 28, 5175-5187.	1.5	21
17	The nature of cell division forces in epithelial monolayers. Journal of Cell Biology, 2021, 220, .	5.2	15
18	Identification of cell context-dependent YAP-associated proteins reveals Î²1 and Î²4 integrin mediate YAP translocation independently of cell spreading. Scientific Reports, 2019, 9, 17188.	3.3	11

#	Article	IF	Citations
19	Cellular Pushing Forces during Mitosis Drive Mitotic Elongation in Collagen Gels. Advanced Science, 2021, 8, 2000403.	11.2	8
20	The evolution of spindles and their mechanical implications for cancer metastasis. Cell Cycle, 2019, 18, 1671-1675.	2.6	4