

# Hong-Pyo Lee

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

11  
papers

1,630  
citations

9  
h-index

11  
g-index

11  
ext. papers

2,128  
ext. citations

16.5  
avg, IF

4.71  
L-index

#	Paper	IF	Citations
11	Relative strain is a novel predictor of aneurysmal degeneration of the thoracic aorta: An ex vivo mechanical study. <i>JVS Vascular Science</i> , <b>2021</b> , 2, 235-246	1.3	
10	A dysfunctional TRPV4-GSK3 $\beta$ pathway prevents osteoarthritic chondrocytes from sensing changes in extracellular matrix viscoelasticity. <i>Nature Biomedical Engineering</i> , <b>2021</b> ,	19	9
9	Enhanced substrate stress relaxation promotes filopodia-mediated cell migration. <i>Nature Materials</i> , <b>2021</b> , 20, 1290-1299	27	22
8	The nuclear piston activates mechanosensitive ion channels to generate cell migration paths in confining microenvironments. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	10
7	Cell cycle progression in confining microenvironments is regulated by a growth-responsive TRPV4-PI3K/Akt-p27 signaling axis. <i>Science Advances</i> , <b>2019</b> , 5, eaaw6171	14.3	50
6	Volume expansion and TRPV4 activation regulate stem cell fate in three-dimensional microenvironments. <i>Nature Communications</i> , <b>2019</b> , 10, 529	17.4	74
5	YAP-independent mechanotransduction drives breast cancer progression. <i>Nature Communications</i> , <b>2019</b> , 10, 1848	17.4	75
4	Microchannel system for rate-controlled, sequential, and pH-responsive drug delivery. <i>Acta Biomaterialia</i> , <b>2018</b> , 68, 249-260	10.8	10
3	Mechanical confinement regulates cartilage matrix formation by chondrocytes. <i>Nature Materials</i> , <b>2017</b> , 16, 1243-1251	27	220
2	Hydrogels with tunable stress relaxation regulate stem cell fate and activity. <i>Nature Materials</i> , <b>2016</b> , 15, 326-34	27	1153
1	Wet microcontact printing ( $\mu$ CP) for micro-reservoir drug delivery systems. <i>Biofabrication</i> , <b>2013</b> , 5, 025011	10.5	7