Lidan You

List of Publications by Year
in descending order

41 papers	2,995 citations	218677 26 h-index	330143 37 g-index
41 all docs	41 docs citations	41 times ranked	3690 citing authors

#	Article	IF	Citations
1	Technical approaches for studying the communications between osteocytes and cancer cells. , 2022, , 157-168.		1
2	Yoda1 Enhanced Low-Magnitude High-Frequency Vibration on Osteocytes in Regulation of MDA-MB-231 Breast Cancer Cell Migration. Cancers, 2022, 14, 3395.	3.7	13
3	Moderate tibial loading and treadmill running, but not overloading, protect adult murine bone from destruction by metastasized breast cancer. Bone, 2021, 153, 116100.	2.9	18
4	Local stimulation of osteocytes using a magnetically actuated oscillating beam. PLoS ONE, 2020, 15, e0235366.	2.5	3
5	Novel <i>in vitro</i> microfluidic platform for osteocyte mechanotransduction studies. Integrative Biology (United Kingdom), 2020, 12, 303-310.	1.3	4
6	Microfluidic platform for studying osteocyte mechanoregulation of breast cancer bone metastasis. Integrative Biology (United Kingdom), 2019, 11, 119-129.	1.3	61
7	OCY454 Osteocytes as an in Vitro Cell Model for Bone Remodeling Under Mechanical Loading. Journal of Orthopaedic Research, 2019, 37, 1681-1689.	2.3	19
8	Mechanically stimulated osteocytes reduce the boneâ€metastatic potential of breast cancer cells in vitro by signaling through endothelial cells. Journal of Cellular Biochemistry, 2019, 120, 7590-7601.	2.6	27
9	Microfluidics approach to investigate the role of dynamic similitude in osteocyte mechanobiology. Journal of Orthopaedic Research, 2018, 36, 663-671.	2.3	8
10	A review of microfluidic approaches for investigating cancer extravasation during metastasis. Microsystems and Nanoengineering, 2018, 4, .	7.0	115
11	Mechanical regulation of breast cancer migration and apoptosis via direct and indirect osteocyte signaling. Journal of Cellular Biochemistry, 2018, 119, 5665-5675.	2.6	44
12	Reliable Grasping of Three-Dimensional Untethered Mobile Magnetic Microgripper for Autonomous Pick-and-Place. IEEE Robotics and Automation Letters, 2017, 2, 835-840.	5.1	88
13	Measuring Bone Cell Response to Fluid Shear Stress and Hydrostatic/Dynamic Pressure. , 2017, , 217-232.		2
14	Increased pressure alters plasma membrane dynamics and renders acute myeloid leukemia cells resistant to daunorubicin. Haematologica, 2015, 100, e406-e408.	3.5	7
15	Bone cell mechanobiology using micro- and nano-techniques. , 2015, , 245-265.		2
16	Mechanical loading up-regulates early remodeling signals from osteocytes subjected to physical damage. Journal of Biomechanics, 2015, 48, 4221-4228.	2.1	13
17	Osteocyte culture in microfluidic devices. Biomicrofluidics, 2015, 9, 014109.	2.4	12
18	Bone's responses to mechanical loading are impaired in type 1 diabetes. Bone, 2015, 81, 152-160.	2.9	53

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19	The role of the sphingosine-1-phosphate signaling pathway in osteocyte mechanotransduction. Bone, 2015, 79, 71-78.	2.9	33
20	Effect of oscillating fluid flow stimulation on osteocyte mRNA expression. Journal of Biomechanics, 2012, 45, 247-251.	2.1	69
21	Osteocyte apoptosis regulates osteoclast precursor adhesion via osteocytic IL-6 secretion and endothelial ICAM-1 expression. Bone, 2012, 50, 104-110.	2.9	64
22	Automated nanomanipulation for nanodevice construction. Nanotechnology, 2012, 23, 065304.	2.6	33
23	Classification of cell types using a microfluidic device for mechanical and electrical measurement on single cells. Lab on A Chip, 2011, 11, 3174.	6.0	160
24	Effect of Nanowire Number, Diameter, and Doping Density on Nano-FET Biosensor Sensitivity. ACS Nano, 2011, 5, 6661-6668.	14.6	112
25	An Integrative Review of Mechanotransduction in Endothelial, Epithelial (Renal) and Dendritic Cells (Osteocytes). Cellular and Molecular Bioengineering, 2011, 4, 510-537.	2.1	58
26	Osteocyte apoptosis is mechanically regulated and induces angiogenesis in vitro. Journal of Orthopaedic Research, 2011, 29, 523-530.	2.3	62
27	Effect of lowâ€magnitude, highâ€frequency vibration on osteogenic differentiation of rat mesenchymal stromal cells. Journal of Orthopaedic Research, 2011, 29, 1075-1080.	2.3	49
28	Apoptotic osteocytes regulate osteoclast precursor recruitment and differentiation in vitro. Journal of Cellular Biochemistry, 2011, 112, 2412-2423.	2.6	93
29	Boning up on Wolff's Law: Mechanical regulation of the cells that make and maintain bone. Journal of Biomechanics, 2010, 43, 108-118.	2.1	290
30	Effects of cyclic hydraulic pressure on osteocytes. Bone, 2010, 46, 1449-1456.	2.9	69
31	Effect of low-magnitude, high-frequency vibration on osteocytes in the regulation of osteoclasts. Bone, 2010, 46, 1508-1515.	2.9	149
32	The dependency of solute diffusion on molecular weight and shape in intact bone. Bone, 2009, 45, 1017-1023.	2.9	40
33	3D Microfluidic Approach to Mechanical Stimulation of Osteocyte Processes. Cellular and Molecular Bioengineering, 2008, 1, 103-107.	2.1	15
34	Bone Cells Grown on Micropatterned Surfaces are More Sensitive to Fluid Shear Stress. Cellular and Molecular Bioengineering, 2008, 1, 182-188.	2.1	13
35	Osteocytes as mechanosensors in the inhibition of bone resorption due to mechanical loading. Bone, 2008, 42, 172-179.	2.9	298
36	The role of actin cytoskeleton in oscillatory fluid flow-induced signaling in MC3T3-E1 osteoblasts. American Journal of Physiology - Cell Physiology, 2007, 292, C1830-C1836.	4.6	75

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37	Oscillatory fluid flow-induced shear stress decreases osteoclastogenesis through RANKL and OPG signaling. Bone, 2006, 39, 1043-1047.	2.9	115
38	Effects of short-term recovery periods on fluid-induced signaling in osteoblastic cells. Journal of Biomechanics, 2005, 38, 1909-1917.	2.1	120
39	Oscillatory fluid flow affects human marrow stromal cell proliferation and differentiation. Journal of Orthopaedic Research, 2004, 22, 1283-1289.	2.3	220
40	Cellular Mechanotransduction. , 2004, , .		0
41	A model for strain amplification in the actin cytoskeleton of osteocytes due to fluid drag on pericellular matrix. Journal of Biomechanics, 2001, 34, 1375-1386.	2.1	368