Lidan You

List of Publications by Year
in descending order

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41	2,995	218677	330143
papers	citations	26 h-index	37 g-index

41	41	41	3690
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Osteocytes as mechanosensors in the inhibition of bone resorption due to mechanical loading. Bone, 2008, 42, 172-179.	2.9	298
3	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
4	Oscillatory fluid flow affects human marrow stromal cell proliferation and differentiation. Journal of Orthopaedic Research, 2004, 22, 1283-1289.	2.3	220
5	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
6	Effect of low-magnitude, high-frequency vibration on osteocytes in the regulation of osteoclasts. Bone, 2010, 46, 1508-1515.	2.9	149
7	Effects of short-term recovery periods on fluid-induced signaling in osteoblastic cells. Journal of Biomechanics, 2005, 38, 1909-1917.	2.1	120
8	Oscillatory fluid flow-induced shear stress decreases osteoclastogenesis through RANKL and OPG signaling. Bone, 2006, 39, 1043-1047.	2.9	115
9	A review of microfluidic approaches for investigating cancer extravasation during metastasis. Microsystems and Nanoengineering, 2018, 4, .	7.0	115
10	Effect of Nanowire Number, Diameter, and Doping Density on Nano-FET Biosensor Sensitivity. ACS Nano, 2011, 5, 6661-6668.	14.6	112
11	Apoptotic osteocytes regulate osteoclast precursor recruitment and differentiation in vitro. Journal of Cellular Biochemistry, 2011, 112, 2412-2423.	2.6	93
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	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
14	Effects of cyclic hydraulic pressure on osteocytes. Bone, 2010, 46, 1449-1456.	2.9	69
15	Effect of oscillating fluid flow stimulation on osteocyte mRNA expression. Journal of Biomechanics, 2012, 45, 247-251.	2.1	69
16	Osteocyte apoptosis regulates osteoclast precursor adhesion via osteocytic IL-6 secretion and endothelial ICAM-1 expression. Bone, 2012, 50, 104-110.	2.9	64
17	Osteocyte apoptosis is mechanically regulated and induces angiogenesis in vitro. Journal of Orthopaedic Research, 2011, 29, 523-530.	2.3	62
18	Microfluidic platform for studying osteocyte mechanoregulation of breast cancer bone metastasis. Integrative Biology (United Kingdom), 2019, 11, 119-129.	1.3	61

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19	An Integrative Review of Mechanotransduction in Endothelial, Epithelial (Renal) and Dendritic Cells (Osteocytes). Cellular and Molecular Bioengineering, 2011, 4, 510-537.	2.1	58
20	Bone's responses to mechanical loading are impaired in type 1 diabetes. Bone, 2015, 81, 152-160.	2.9	53
21	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
22	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
23	The dependency of solute diffusion on molecular weight and shape in intact bone. Bone, 2009, 45, 1017-1023.	2.9	40
24	Automated nanomanipulation for nanodevice construction. Nanotechnology, 2012, 23, 065304.	2.6	33
25	The role of the sphingosine-1-phosphate signaling pathway in osteocyte mechanotransduction. Bone, 2015, 79, 71-78.	2.9	33
26	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
27	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
28	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
29	3D Microfluidic Approach to Mechanical Stimulation of Osteocyte Processes. Cellular and Molecular Bioengineering, 2008, 1, 103-107.	2.1	15
30	Bone Cells Grown on Micropatterned Surfaces are More Sensitive to Fluid Shear Stress. Cellular and Molecular Bioengineering, 2008, 1, 182-188.	2.1	13
31	Mechanical loading up-regulates early remodeling signals from osteocytes subjected to physical damage. Journal of Biomechanics, 2015, 48, 4221-4228.	2.1	13
32	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
33	Osteocyte culture in microfluidic devices. Biomicrofluidics, 2015, 9, 014109.	2.4	12
34	Microfluidics approach to investigate the role of dynamic similitude in osteocyte mechanobiology. Journal of Orthopaedic Research, 2018, 36, 663-671.	2.3	8
35	Increased pressure alters plasma membrane dynamics and renders acute myeloid leukemia cells resistant to daunorubicin. Haematologica, 2015, 100, e406-e408.	3.5	7
36	Novel in vitro microfluidic platform for osteocyte mechanotransduction studies. Integrative Biology (United Kingdom), 2020, 12, 303-310.	1.3	4

#	Article	IF	Citations
37	Local stimulation of osteocytes using a magnetically actuated oscillating beam. PLoS ONE, 2020, 15, e0235366.	2.5	3
38	Bone cell mechanobiology using micro- and nano-techniques. , 2015, , 245-265.		2
39	Measuring Bone Cell Response to Fluid Shear Stress and Hydrostatic/Dynamic Pressure. , 2017, , 217-232.		2
40	Technical approaches for studying the communications between osteocytes and cancer cells. , 2022, , 157-168.		1
41	Cellular Mechanotransduction. , 2004, , .		0