

Holly A Leddy

List of Publications by Citations

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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.

30
papers

3,624
citations

24
h-index

31
g-index

31
ext. papers

4,083
ext. citations

5.2
avg, IF

5.02
L-index

#	Paper	IF	Citations
30	Surface protein characterization of human adipose tissue-derived stromal cells. <i>Journal of Cellular Physiology</i> , 2001 , 189, 54-63	7	869
29	Chondrogenic differentiation of adipose-derived adult stem cells in agarose, alginate, and gelatin scaffolds. <i>Biomaterials</i> , 2004 , 25, 3211-22	15.6	655
28	TRPV4-mediated mechanotransduction regulates the metabolic response of chondrocytes to dynamic loading. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 1316-21	11.5	262
27	Functional characterization of TRPV4 as an osmotically sensitive ion channel in porcine articular chondrocytes. <i>Arthritis and Rheumatism</i> , 2009 , 60, 3028-37		213
26	Synergy between Piezo1 and Piezo2 channels confers high-strain mechanosensitivity to articular cartilage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E5114-22	11.5	193
25	The mechanobiology of articular cartilage: bearing the burden of osteoarthritis. <i>Current Rheumatology Reports</i> , 2014 , 16, 451	4.9	152
24	Zonal changes in the three-dimensional morphology of the chondron under compression: the relationship among cellular, pericellular, and extracellular deformation in articular cartilage. <i>Journal of Biomechanics</i> , 2007 , 40, 2596-603	2.9	130
23	Site-specific molecular diffusion in articular cartilage measured using fluorescence recovery after photobleaching. <i>Annals of Biomedical Engineering</i> , 2003 , 31, 753-60	4.7	130
22	Molecular diffusion in tissue-engineered cartilage constructs: effects of scaffold material, time, and culture conditions. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 70, 397-406		115
21	Synovial fluid concentrations and relative potency of interleukin-1 alpha and beta in cartilage and meniscus degradation. <i>Journal of Orthopaedic Research</i> , 2013 , 31, 1039-45	3.8	90
20	Type VI Collagen Regulates Pericellular Matrix Properties, Chondrocyte Swelling, and Mechanotransduction in Mouse Articular Cartilage. <i>Arthritis and Rheumatology</i> , 2015 , 67, 1286-94	9.5	89
19	Diurnal variations in articular cartilage thickness and strain in the human knee. <i>Journal of Biomechanics</i> , 2013 , 46, 541-7	2.9	85
18	Transient receptor potential vanilloid 4: The sixth sense of the musculoskeletal system?. <i>Annals of the New York Academy of Sciences</i> , 2010 , 1192, 404-9	6.5	84
17	Diffusional anisotropy in collagenous tissues: fluorescence imaging of continuous point photobleaching. <i>Biophysical Journal</i> , 2006 , 91, 311-6	2.9	72
16	Adjacent tissues (cartilage, bone) affect the functional integration of engineered calf cartilage in vitro. <i>Osteoarthritis and Cartilage</i> , 2005 , 13, 129-38	6.2	63
15	TRPV4 as a therapeutic target for joint diseases. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2015 , 388, 437-50	3.4	47
14	High body mass index is associated with increased diurnal strains in the articular cartilage of the knee. <i>Arthritis and Rheumatism</i> , 2013 , 65, 2615-22		47

13	Composition and transport properties of human ankle and knee cartilage. <i>Journal of Orthopaedic Research</i> , 2006 , 24, 211-9	3.8	42
12	Altered trabecular bone structure and delayed cartilage degeneration in the knees of collagen VI null mice. <i>PLoS ONE</i> , 2012 , 7, e33397	3.7	41
11	TRPV4-mediated calcium signaling in mesenchymal stem cells regulates aligned collagen matrix formation and vinculin tension. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 1992-1997	11.5	39
10	Site-specific effects of compression on macromolecular diffusion in articular cartilage. <i>Biophysical Journal</i> , 2008 , 95, 4890-5	2.9	38
9	Osmotic stress alters chromatin condensation and nucleocytoplasmic transport. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 408, 230-5	3.4	36
8	Sutural loosening and skeletal flexibility during growth: determination of drop-like shapes in sea urchins. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2002 , 269, 215-20	4.4	31
7	Follistatin in chondrocytes: the link between TRPV4 channelopathies and skeletal malformations. <i>FASEB Journal</i> , 2014 , 28, 2525-37	0.9	24
6	Inflammatory signaling sensitizes Piezo1 mechanotransduction in articular chondrocytes as a pathogenic feed-forward mechanism in osteoarthritis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	22
5	Microscale diffusion properties of the cartilage pericellular matrix measured using 3D scanning microphotolysis. <i>Journal of Biomechanical Engineering</i> , 2008 , 130, 061002	2.1	20
4	Unraveling the mechanism by which TRPV4 mutations cause skeletal dysplasias. <i>Rare Diseases (Austin, Tex)</i> , 2014 , 2, e962971		16
3	Effects of myocardial infarction on the distribution and transport of nutrients and oxygen in porcine myocardium. <i>Journal of Biomechanical Engineering</i> , 2012 , 134, 101005	2.1	8
2	Transient receptor potential vanilloid 4 as a regulator of induced pluripotent stem cell chondrogenesis. <i>Stem Cells</i> , 2021 , 39, 1447-1456	5.8	7
1	Obesity alters the collagen organization and mechanical properties of murine cartilage. <i>Scientific Reports</i> , 2021 , 11, 1626	4.9	4