Zhen Li

List of Publications by Year
in descending order

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48	1,849	257450 24	276875 41
papers	citations	h-index	g-index

53	53	53	2074
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Diversity of intervertebral disc cells: phenotype and function. Journal of Anatomy, 2012, 221, 480-496.	1.5	237
2	Mechanical load modulates chondrogenesis of human mesenchymal stem cells through the TGFâ€î² pathway. Journal of Cellular and Molecular Medicine, 2010, 14, 1338-1346.	3.6	170
3	Chondrogenesis of Human Bone Marrow Mesenchymal Stem Cells in Fibrinâ€“Polyurethane Composites Is Modulated by Frequency and Amplitude of Dynamic Compression and Shear Stress. Tissue Engineering - Part A, 2010, 16, 575-584.	3.1	129
4	Small molecule-based treatment approaches for intervertebral disc degeneration: Current options and future directions. Theranostics, 2021, 11, 27-47.	10.0	101
5	Improving Chondrogenesis: Potential and Limitations ofSOX9Gene Transfer and Mechanical Stimulation for Cartilage Tissue Engineering. Tissue Engineering - Part A, 2010, 16, 1845-1855.	3.1	91
6	A combined biomaterial and cellular approach for annulus fibrosus rupture repair. Biomaterials, 2015, 42, 11-19.	11.4	91
7	Chondrogenesis of Human Bone Marrow Mesenchymal Stem Cells in Fibrinâ€“Polyurethane Composites. Tissue Engineering - Part A, 2009, 15, 1729-1737.	3.1	86
8	Effect of reduced oxygen tension and long-term mechanical stimulation on chondrocyte-polymer constructs. Cell and Tissue Research, 2008, 331, 473-483.	2.9	70
9	An intervertebral disc whole organ culture system to investigate proinflammatory and degenerative disc disease condition. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e2051-e2061.	2.7	55
10	Biomaterials for intervertebral disc regeneration: Current status and looming challenges. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 2188-2202.	2.7	55
11	Polyurethane scaffold with in situ swelling capacity for nucleus pulposus replacement. Biomaterials, 2016, 84, 196-209.	11.4	50
12	Bioprinting Tissue Analogues with Decellularized Extracellular Matrix Bioink for Regeneration and Tissue Models of Cartilage and Intervertebral Discs. Advanced Functional Materials, 2020, 30, 1909044.	14.9	48
13	Heterodimeric BMPâ€2/7 for nucleus pulposus regenerationâ€”In vitro and ex vivo studies. Journal of Orthopaedic Research, 2017, 35, 51-60.	2.3	45
14	Different response of articular chondrocyte subpopulations to surface motion. Osteoarthritis and Cartilage, 2007, 15, 1034-1041.	1.3	44
15	Biomimetic fibrinâ€“hyaluronan hydrogels for nucleus pulposus regeneration. Regenerative Medicine, 2014, 9, 309-326.	1.7	44
16	CD146/MCAM distinguishes stem cell subpopulations with distinct migration and regenerative potential in degenerative intervertebral discs. Osteoarthritis and Cartilage, 2019, 27, 1094-1105.	1.3	37
17	Injectable hyaluronic acid down-regulates interferon signaling molecules, IGFBP3 and IFIT3 in the bovine intervertebral disc. Acta Biomaterialia, 2017, 52, 118-129.	8.3	33
18	The Tissue Renin-Angiotensin System and Its Role in the Pathogenesis of Major Human Diseases: Quo Vadis?. Cells, 2021, 10, 650.	4.1	31

#	Article	IF	Citations
19	Intervertebral disc organ culture for the investigation of disc pathology and regeneration â€“ benefits, limitations, and future directions of bioreactors. Connective Tissue Research, 2020, 61, 304-321.	2.3	30
20	Potential and Limitations of Intervertebral Disc Endogenous Repair. Current Stem Cell Research and Therapy, 2015, 10, 329-338.	1.3	30
21	Effect of cyclic mechanical loading on immunoinflammatory microenvironment in biofabricating hydroxyapatite scaffold for bone regeneration. Bioactive Materials, 2021, 6, 3097-3108.	15.6	29
22	CD146 defines commitment of cultured annulus fibrosus cells to express a contractile phenotype. Journal of Orthopaedic Research, 2016, 34, 1361-1372.	2.3	28
23	Preclinical ex-vivo Testing of Anti-inflammatory Drugs in a Bovine Intervertebral Degenerative Disc Model. Frontiers in Bioengineering and Biotechnology, 2020, 8, 583.	4.1	26
24	Development of an ex vivo cavity model to study repair strategies in loaded intervertebral discs. European Spine Journal, 2016, 25, 2898-2908.	2.2	25
25	Kartogenin hydrolysis product 4-aminobiphenyl distributes to cartilage and mediates cartilage regeneration. Theranostics, 2019, 9, 7108-7121.	10.0	25
26	Interaction between Stem Cells and the Microenvironment for Musculoskeletal Repair. Stem Cells International, 2020, 2020, 1-3.	2.5	24
27	Proinflammatory intervertebral disc cell and organ culture models induced by tumor necrosis factor alpha. JOR Spine, 2020, 3, e1104.	3.2	23
28	Effect of the CCL5-Releasing Fibrin Gel for Intervertebral Disc Regeneration. Cartilage, 2020, 11, 169-180.	2.7	22
29	Morphological and biomechanical effects of annulus fibrosus injury and repair in an ovine cervical model. JOR Spine, 2020, 3, e1074.	3.2	22
30	Isolation of highâ€quality RNA from intervertebral disc tissue via pronase predigestion and tissue pulverization. JOR Spine, 2018, 1, e1017.	3.2	21
31	One strike loading organ culture model to investigate the post-traumatic disc degenerative condition. Journal of Orthopaedic Translation, 2021, 26, 141-150.	3.9	21
32	Regulation of Inflammatory Response in Human Osteoarthritic Chondrocytes by Novel Herbal Small Molecules. International Journal of Molecular Sciences, 2019, 20, 5745.	4.1	19
33	Fibrin-Hyaluronic Acid Hydrogel (RegenoGel) with Fibroblast Growth Factor-18 for In Vitro 3D Culture of Human and Bovine Nucleus Pulposus Cells. International Journal of Molecular Sciences, 2019, 20, 5036.	4.1	18
34	A Stratified Algorithm for Skull Base Reconstruction With Endoscopic Endonasal Approach. Journal of Craniofacial Surgery, 2018, 29, 193-198.	0.7	14
35	Small molecules of herbal origin for osteoarthritis treatment: in vitro and in vivo evidence. Arthritis Research and Therapy, 2022, 24, 105.	3.5	10
36	Mechanical and biological characterization of a composite annulus fibrosus repair strategy in an endplate delamination model. JOR Spine, 2020, 3, e1107.	3.2	8

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37	Endogenous Cell Homing for Intervertebral Disk Regeneration. Journal of the American Academy of Orthopaedic Surgeons, The, 2015, 23, 264-266.	2.5	7
38	Identification and Characterization of Serum microRNAs as Biomarkers for Human Disc Degeneration: An RNA Sequencing Analysis. Diagnostics, 2020, 10, 1063.	2.6	5
39	Noninvasive multimodal fluorescence and magnetic resonance imaging of whole-organ intervertebral discs. Biomedical Optics Express, 2021, 12, 3214.	2.9	5
40	The role of retinoic acid receptor inhibitor LE135 on the osteochondral differentiation of human bone marrow mesenchymal stem cells. Journal of Cellular Biochemistry, 2011, 112, 963-970.	2.6	4
41	Transcriptional profiling of intervertebral disc in a postâ€traumatic early degeneration organ culture model. JOR Spine, 2021, 4, e1146.	3.2	4
42	The function of CD146 in human annulus fibrosus cells and mechanism of the regulation by TGFâ€Î². Journal of Orthopaedic Research, 2022, 40, 1661-1671.	2.3	3
43	Establishment of an Ex Vivo Inflammatory Osteoarthritis Model With Human Osteochondral Explants. Frontiers in Bioengineering and Biotechnology, 2021, 9, 787020.	4.1	3
44	Angiotensin II Type 1 Receptor Antagonist Losartan Inhibits TNF-Î±-Induced Inflammation and Degeneration Processes in Human Nucleus Pulposus Cells. Applied Sciences (Switzerland), 2021, 11, 417.	2.5	2
45	Neoepitope fragments as biomarkers for different phenotypes of intervertebral disc degeneration. JOR Spine, 2022, 5, .	3.2	2
46	Quantifying multiple social relationships based on a multiplex stochastic block model. Frontiers of Information Technology and Electronic Engineering, 0, , 1.	2.6	1
47	Intervertebral Disc Whole Organ Cultures. , 2018, , 67-101.		0
48	Advances in basic and preclinical spine research: Highlights from the Chinese Spine Research Community. JOR Spine, 2021, 4, e1188.	3.2	0