

# Zhen Li

## List of Publications by Year in descending order

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48  
papers

1,849  
citations

257101

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276539

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docs citations

53  
times ranked

2074  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diversity of intervertebral disc cells: phenotype and function. <i>Journal of Anatomy</i> , 2012, 221, 480-496.	0.9	237
2	Mechanical load modulates chondrogenesis of human mesenchymal stem cells through the TGF $\beta$ <sup>2</sup> pathway. <i>Journal of Cellular and Molecular Medicine</i> , 2010, 14, 1338-1346.	1.6	170
3	Chondrogenesis of Human Bone Marrow Mesenchymal Stem Cells in Fibrin-Polyurethane Composites Is Modulated by Frequency and Amplitude of Dynamic Compression and Shear Stress. <i>Tissue Engineering - Part A</i> , 2010, 16, 575-584.	1.6	129
4	Small molecule-based treatment approaches for intervertebral disc degeneration: Current options and future directions. <i>Theranostics</i> , 2021, 11, 27-47.	4.6	101
5	Improving Chondrogenesis: Potential and Limitations of SOX9 Gene Transfer and Mechanical Stimulation for Cartilage Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2010, 16, 1845-1855.	1.6	91
6	A combined biomaterial and cellular approach for annulus fibrosus rupture repair. <i>Biomaterials</i> , 2015, 42, 11-19.	5.7	91
7	Chondrogenesis of Human Bone Marrow Mesenchymal Stem Cells in Fibrin-Polyurethane Composites. <i>Tissue Engineering - Part A</i> , 2009, 15, 1729-1737.	1.6	86
8	Effect of reduced oxygen tension and long-term mechanical stimulation on chondrocyte-polymer constructs. <i>Cell and Tissue Research</i> , 2008, 331, 473-483.	1.5	70
9	An intervertebral disc whole organ culture system to investigate proinflammatory and degenerative disc disease condition. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e2051-e2061.	1.3	55
10	Biomaterials for intervertebral disc regeneration: Current status and looming challenges. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 2188-2202.	1.3	55
11	Polyurethane scaffold with in situ swelling capacity for nucleus pulposus replacement. <i>Biomaterials</i> , 2016, 84, 196-209.	5.7	50
12	Bioprinting Tissue Analogues with Decellularized Extracellular Matrix Bioink for Regeneration and Tissue Models of Cartilage and Intervertebral Discs. <i>Advanced Functional Materials</i> , 2020, 30, 1909044.	7.8	48
13	Heterodimeric BMP $\beta$ 7 for nucleus pulposus regeneration-In vitro and ex vivo studies. <i>Journal of Orthopaedic Research</i> , 2017, 35, 51-60.	1.2	45
14	Different response of articular chondrocyte subpopulations to surface motion. <i>Osteoarthritis and Cartilage</i> , 2007, 15, 1034-1041.	0.6	44
15	Biomimetic fibrin-hyaluronan hydrogels for nucleus pulposus regeneration. <i>Regenerative Medicine</i> , 2014, 9, 309-326.	0.8	44
16	CD146/MCAM distinguishes stem cell subpopulations with distinct migration and regenerative potential in degenerative intervertebral discs. <i>Osteoarthritis and Cartilage</i> , 2019, 27, 1094-1105.	0.6	37
17	Injectable hyaluronic acid down-regulates interferon signaling molecules, IGFBP3 and IFIT3 in the bovine intervertebral disc. <i>Acta Biomaterialia</i> , 2017, 52, 118-129.	4.1	33
18	The Tissue Renin-Angiotensin System and Its Role in the Pathogenesis of Major Human Diseases: Quo Vadis?. <i>Cells</i> , 2021, 10, 650.	1.8	31

#	ARTICLE	IF	CITATIONS
19	Intervertebral disc organ culture for the investigation of disc pathology and regeneration – benefits, limitations, and future directions of bioreactors. <i>Connective Tissue Research</i> , 2020, 61, 304-321.	1.1	30
20	Potential and Limitations of Intervertebral Disc Endogenous Repair. <i>Current Stem Cell Research and Therapy</i> , 2015, 10, 329-338.	0.6	30
21	Effect of cyclic mechanical loading on immunoinflammatory microenvironment in biofabricating hydroxyapatite scaffold for bone regeneration. <i>Bioactive Materials</i> , 2021, 6, 3097-3108.	8.6	29
22	CD146 defines commitment of cultured annulus fibrosus cells to express a contractile phenotype. <i>Journal of Orthopaedic Research</i> , 2016, 34, 1361-1372.	1.2	28
23	Preclinical ex-vivo Testing of Anti-inflammatory Drugs in a Bovine Intervertebral Degenerative Disc Model. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 583.	2.0	26
24	Development of an ex vivo cavity model to study repair strategies in loaded intervertebral discs. <i>European Spine Journal</i> , 2016, 25, 2898-2908.	1.0	25
25	Kartogenin hydrolysis product 4-aminobiphenyl distributes to cartilage and mediates cartilage regeneration. <i>Theranostics</i> , 2019, 9, 7108-7121.	4.6	25
26	Interaction between Stem Cells and the Microenvironment for Musculoskeletal Repair. <i>Stem Cells International</i> , 2020, 2020, 1-3.	1.2	24
27	Proinflammatory intervertebral disc cell and organ culture models induced by tumor necrosis factor alpha. <i>JOR Spine</i> , 2020, 3, e1104.	1.5	23
28	Effect of the CCL5-Releasing Fibrin Gel for Intervertebral Disc Regeneration. <i>Cartilage</i> , 2020, 11, 169-180.	1.4	22
29	Morphological and biomechanical effects of annulus fibrosus injury and repair in an ovine cervical model. <i>JOR Spine</i> , 2020, 3, e1074.	1.5	22
30	Isolation of high-quality RNA from intervertebral disc tissue via pronase predigestion and tissue pulverization. <i>JOR Spine</i> , 2018, 1, e1017.	1.5	21
31	One strike loading organ culture model to investigate the post-traumatic disc degenerative condition. <i>Journal of Orthopaedic Translation</i> , 2021, 26, 141-150.	1.9	21
32	Regulation of Inflammatory Response in Human Osteoarthritic Chondrocytes by Novel Herbal Small Molecules. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5745.	1.8	19
33	Fibrin-Hyaluronic Acid Hydrogel (RegenoGel) with Fibroblast Growth Factor-18 for In Vitro 3D Culture of Human and Bovine Nucleus Pulposus Cells. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5036.	1.8	18
34	A Stratified Algorithm for Skull Base Reconstruction With Endoscopic Endonasal Approach. <i>Journal of Craniofacial Surgery</i> , 2018, 29, 193-198.	0.3	14
35	Small molecules of herbal origin for osteoarthritis treatment: in vitro and in vivo evidence. <i>Arthritis Research and Therapy</i> , 2022, 24, 105.	1.6	10
36	Mechanical and biological characterization of a composite annulus fibrosus repair strategy in an endplate delamination model. <i>JOR Spine</i> , 2020, 3, e1107.	1.5	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.	1.1	7
38	Identification and Characterization of Serum microRNAs as Biomarkers for Human Disc Degeneration: An RNA Sequencing Analysis. Diagnostics, 2020, 10, 1063.	1.3	5
39	Noninvasive multimodal fluorescence and magnetic resonance imaging of whole-organ intervertebral discs. Biomedical Optics Express, 2021, 12, 3214.	1.5	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.	1.2	4
41	Transcriptional profiling of intervertebral disc in a post-traumatic early degeneration organ culture model. JOR Spine, 2021, 4, e1146.	1.5	4
42	The function of CD146 in human annulus fibrosus cells and mechanism of the regulation by TGF- $\beta$ 2. Journal of Orthopaedic Research, 2022, 40, 1661-1671.	1.2	3
43	Establishment of an Ex Vivo Inflammatory Osteoarthritis Model With Human Osteochondral Explants. Frontiers in Bioengineering and Biotechnology, 2021, 9, 787020.	2.0	3
44	Angiotensin II Type 1 Receptor Antagonist Losartan Inhibits TNF- $\alpha$ -Induced Inflammation and Degeneration Processes in Human Nucleus Pulposus Cells. Applied Sciences (Switzerland), 2021, 11, 417.	1.3	2
45	Neoepitope fragments as biomarkers for different phenotypes of intervertebral disc degeneration. JOR Spine, 2022, 5, .	1.5	2
46	Quantifying multiple social relationships based on a multiplex stochastic block model. Frontiers of Information Technology and Electronic Engineering, 0, , 1.	1.5	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.	1.5	0