

# Zhen Li

## List of Publications by Year in descending order

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48  
papers

1,849  
citations

257450

24  
h-index

276875

41  
g-index

53  
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53  
docs citations

53  
times ranked

2074  
citing authors

#	ARTICLE	IF	CITATIONS
1	The function of CD146 in human annulus fibrosus cells and mechanism of the regulation by TGF $\beta$ <sup>2</sup> . <i>Journal of Orthopaedic Research</i> , 2022, 40, 1661-1671.	2.3	3
2	Small molecules of herbal origin for osteoarthritis treatment: in vitro and in vivo evidence. <i>Arthritis Research and Therapy</i> , 2022, 24, 105.	3.5	10
3	Neopeptide fragments as biomarkers for different phenotypes of intervertebral disc degeneration. <i>JOR Spine</i> , 2022, 5, .	3.2	2
4	Small molecule-based treatment approaches for intervertebral disc degeneration: Current options and future directions. <i>Theranostics</i> , 2021, 11, 27-47.	10.0	101
5	One strike loading organ culture model to investigate the post-traumatic disc degenerative condition. <i>Journal of Orthopaedic Translation</i> , 2021, 26, 141-150.	3.9	21
6	Angiotensin II Type 1 Receptor Antagonist Losartan Inhibits TNF- $\alpha$ -Induced Inflammation and Degeneration Processes in Human Nucleus Pulposus Cells. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 417.	2.5	2
7	The Tissue Renin-Angiotensin System and Its Role in the Pathogenesis of Major Human Diseases: Quo Vadis?. <i>Cells</i> , 2021, 10, 650.	4.1	31
8	Transcriptional profiling of intervertebral disc in a post-traumatic early degeneration organ culture model. <i>JOR Spine</i> , 2021, 4, e1146.	3.2	4
9	Noninvasive multimodal fluorescence and magnetic resonance imaging of whole-organ intervertebral discs. <i>Biomedical Optics Express</i> , 2021, 12, 3214.	2.9	5
10	Effect of cyclic mechanical loading on immunoinflammatory microenvironment in biofabricating hydroxyapatite scaffold for bone regeneration. <i>Bioactive Materials</i> , 2021, 6, 3097-3108.	15.6	29
11	Establishment of an Ex Vivo Inflammatory Osteoarthritis Model With Human Osteochondral Explants. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 787020.	4.1	3
12	Advances in basic and preclinical spine research: Highlights from the Chinese Spine Research Community. <i>JOR Spine</i> , 2021, 4, e1188.	3.2	0
13	Effect of the CCL5-Releasing Fibrin Gel for Intervertebral Disc Regeneration. <i>Cartilage</i> , 2020, 11, 169-180.	2.7	22
14	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.	2.3	30
15	Mechanical and biological characterization of a composite annulus fibrosus repair strategy in an endplate delamination model. <i>JOR Spine</i> , 2020, 3, e1107.	3.2	8
16	Proinflammatory intervertebral disc cell and organ culture models induced by tumor necrosis factor alpha. <i>JOR Spine</i> , 2020, 3, e1104.	3.2	23
17	Identification and Characterization of Serum microRNAs as Biomarkers for Human Disc Degeneration: An RNA Sequencing Analysis. <i>Diagnostics</i> , 2020, 10, 1063.	2.6	5
18	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.	14.9	48

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19	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.	4.1	26
20	Morphological and biomechanical effects of annulus fibrosus injury and repair in an ovine cervical model. <i>JOR Spine</i> , 2020, 3, e1074.	3.2	22
21	Interaction between Stem Cells and the Microenvironment for Musculoskeletal Repair. <i>Stem Cells International</i> , 2020, 2020, 1-3.	2.5	24
22	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.	4.1	18
23	Kartogenin hydrolysis product 4-aminobiphenyl distributes to cartilage and mediates cartilage regeneration. <i>Theranostics</i> , 2019, 9, 7108-7121.	10.0	25
24	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.	1.3	37
25	Regulation of Inflammatory Response in Human Osteoarthritic Chondrocytes by Novel Herbal Small Molecules. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5745.	4.1	19
26	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.	2.7	55
27	A Stratified Algorithm for Skull Base Reconstruction With Endoscopic Endonasal Approach. <i>Journal of Craniofacial Surgery</i> , 2018, 29, 193-198.	0.7	14
28	Isolation of high-quality RNA from intervertebral disc tissue via pronase predigestion and tissue pulverization. <i>JOR Spine</i> , 2018, 1, e1017.	3.2	21
29	Biomaterials for intervertebral disc regeneration: Current status and looming challenges. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 2188-2202.	2.7	55
30	Intervertebral Disc Whole Organ Cultures. , 2018, , 67-101.		0
31	Heterodimeric BMP-7 for nucleus pulposus regeneration—In vitro and ex vivo studies. <i>Journal of Orthopaedic Research</i> , 2017, 35, 51-60.	2.3	45
32	Injectable hyaluronic acid down-regulates interferon signaling molecules, IGFBP3 and IFIT3 in the bovine intervertebral disc. <i>Acta Biomaterialia</i> , 2017, 52, 118-129.	8.3	33
33	CD146 defines commitment of cultured annulus fibrosus cells to express a contractile phenotype. <i>Journal of Orthopaedic Research</i> , 2016, 34, 1361-1372.	2.3	28
34	Development of an ex vivo cavity model to study repair strategies in loaded intervertebral discs. <i>European Spine Journal</i> , 2016, 25, 2898-2908.	2.2	25
35	Polyurethane scaffold with in situ swelling capacity for nucleus pulposus replacement. <i>Biomaterials</i> , 2016, 84, 196-209.	11.4	50
36	Endogenous Cell Homing for Intervertebral Disk Regeneration. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2015, 23, 264-266.	2.5	7

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37	A combined biomaterial and cellular approach for annulus fibrosus rupture repair. <i>Biomaterials</i> , 2015, 42, 11-19.	11.4	91
38	Potential and Limitations of Intervertebral Disc Endogenous Repair. <i>Current Stem Cell Research and Therapy</i> , 2015, 10, 329-338.	1.3	30
39	Biomimetic fibrin-hyaluronan hydrogels for nucleus pulposus regeneration. <i>Regenerative Medicine</i> , 2014, 9, 309-326.	1.7	44
40	Diversity of intervertebral disc cells: phenotype and function. <i>Journal of Anatomy</i> , 2012, 221, 480-496.	1.5	237
41	The role of retinoic acid receptor inhibitor LE135 on the osteochondral differentiation of human bone marrow mesenchymal stem cells. <i>Journal of Cellular Biochemistry</i> , 2011, 112, 963-970.	2.6	4
42	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.	3.6	170
43	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.	3.1	91
44	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.	3.1	129
45	Chondrogenesis of Human Bone Marrow Mesenchymal Stem Cells in Fibrin-Polyurethane Composites. <i>Tissue Engineering - Part A</i> , 2009, 15, 1729-1737.	3.1	86
46	Effect of reduced oxygen tension and long-term mechanical stimulation on chondrocyte-polymer constructs. <i>Cell and Tissue Research</i> , 2008, 331, 473-483.	2.9	70
47	Different response of articular chondrocyte subpopulations to surface motion. <i>Osteoarthritis and Cartilage</i> , 2007, 15, 1034-1041.	1.3	44
48	Quantifying multiple social relationships based on a multiplex stochastic block model. <i>Frontiers of Information Technology and Electronic Engineering</i> , 0, , 1.	2.6	1