

Xiao-Lei Zhang

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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.

101 papers	2,453 citations	30 h-index	45 g-index
105 ext. papers	3,306 ext. citations	6.1 avg, IF	4.94 L-index

#	Paper	IF	Citations
101	Metformin protects against apoptosis and senescence in nucleus pulposus cells and ameliorates disc degeneration in vivo. <i>Cell Death and Disease</i> , 2016 , 7, e2441	9.8	167
100	Apoptosis, senescence, and autophagy in rat nucleus pulposus cells: Implications for diabetic intervertebral disc degeneration. <i>Journal of Orthopaedic Research</i> , 2013 , 31, 692-702	3.8	121
99	Minimally invasive versus open transforaminal lumbar interbody fusion: a meta-analysis based on the current evidence. <i>European Spine Journal</i> , 2013 , 22, 1741-9	2.7	112
98	Trehalose ameliorates oxidative stress-mediated mitochondrial dysfunction and ER stress via selective autophagy stimulation and autophagic flux restoration in osteoarthritis development. <i>Cell Death and Disease</i> , 2017 , 8, e3081	9.8	111
97	Metformin Improves Functional Recovery After Spinal Cord Injury via Autophagy Flux Stimulation. <i>Molecular Neurobiology</i> , 2017 , 54, 3327-3341	6.2	87
96	Sirt6 overexpression suppresses senescence and apoptosis of nucleus pulposus cells by inducing autophagy in a model of intervertebral disc degeneration. <i>Cell Death and Disease</i> , 2018 , 9, 56	9.8	69
95	Salidroside attenuates neuroinflammation and improves functional recovery after spinal cord injury through microglia polarization regulation. <i>Journal of Cellular and Molecular Medicine</i> , 2018 , 22, 1148-1166	5.6	62
94	Stimulation of autophagy promotes functional recovery in diabetic rats with spinal cord injury. <i>Scientific Reports</i> , 2015 , 5, 17130	4.9	59
93	Hydrogen sulfide protects against endoplasmic reticulum stress and mitochondrial injury in nucleus pulposus cells and ameliorates intervertebral disc degeneration. <i>Pharmacological Research</i> , 2017 , 117, 357-369	10.2	52
92	The amelioration of cartilage degeneration by ADAMTS-5 inhibitor delivered in a hyaluronic acid hydrogel. <i>Biomaterials</i> , 2014 , 35, 2827-36	15.6	51
91	An injectable nano-hydroxyapatite (n-HA)/glycol chitosan (G-CS)/hyaluronic acid (HyA) composite hydrogel for bone tissue engineering. <i>RSC Advances</i> , 2016 , 6, 33529-33536	3.7	50
90	4D-Printed Dynamic Materials in Biomedical Applications: Chemistry, Challenges, and Their Future Perspectives in the Clinical Sector. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 8003-8024	8.3	47
89	Inhibition of Rac1 activity by controlled release of NSC23766 from chitosan microspheres effectively ameliorates osteoarthritis development in vivo. <i>Annals of the Rheumatic Diseases</i> , 2015 , 74, 285-93	2.4	44
88	TFEB, a potential therapeutic target for osteoarthritis via autophagy regulation. <i>Cell Death and Disease</i> , 2018 , 9, 858	9.8	44
87	Celastrol reduces IL-1 β induced matrix catabolism, oxidative stress and inflammation in human nucleus pulposus cells and attenuates rat intervertebral disc degeneration in vivo. <i>Biomedicine and Pharmacotherapy</i> , 2017 , 91, 208-219	7.5	41
86	3D-Printed Atsttrin-Incorporated Alginate/Hydroxyapatite Scaffold Promotes Bone Defect Regeneration with TNF/TNFR Signaling Involvement. <i>Advanced Healthcare Materials</i> , 2015 , 4, 1701-8	10.1	41
85	Melatonin protects endothelial progenitor cells against AGE-induced apoptosis via autophagy flux stimulation and promotes wound healing in diabetic mice. <i>Experimental and Molecular Medicine</i> , 2018 , 50, 1-15	12.8	41

84	Parkin-mediated mitophagy as a potential therapeutic target for intervertebral disc degeneration. <i>Cell Death and Disease</i> , 2018 , 9, 980	9.8	41
83	Glucagon-like peptide-1 receptor regulates endoplasmic reticulum stress-induced apoptosis and the associated inflammatory response in chondrocytes and the progression of osteoarthritis in rat. <i>Cell Death and Disease</i> , 2018 , 9, 212	9.8	40
82	Melatonin protects vertebral endplate chondrocytes against apoptosis and calcification via the Sirt1-autophagy pathway. <i>Journal of Cellular and Molecular Medicine</i> , 2019 , 23, 177-193	5.6	37
81	Urolithin A-induced mitophagy suppresses apoptosis and attenuates intervertebral disc degeneration via the AMPK signaling pathway. <i>Free Radical Biology and Medicine</i> , 2020 , 150, 109-119	7.8	36
80	Incidence of patients with bone metastases at diagnosis of solid tumors in adults: a large population-based study. <i>Annals of Translational Medicine</i> , 2020 , 8, 482	3.2	35
79	TFEB protects nucleus pulposus cells against apoptosis and senescence via restoring autophagic flux. <i>Osteoarthritis and Cartilage</i> , 2019 , 27, 347-357	6.2	35
78	Monascin inhibits IL-1 β -induced catabolism in mouse chondrocytes and ameliorates murine osteoarthritis. <i>Food and Function</i> , 2018 , 9, 1454-1464	6.1	34
77	Stabilization of HIF-1 β by FG-4592 promotes functional recovery and neural protection in experimental spinal cord injury. <i>Brain Research</i> , 2016 , 1632, 19-26	3.7	34
76	Kdm6b regulates cartilage development and homeostasis through anabolic metabolism. <i>Annals of the Rheumatic Diseases</i> , 2017 , 76, 1295-1303	2.4	33
75	BRD4 inhibition regulates MAPK, NF- κ B signals, and autophagy to suppress MMP-13 expression in diabetic intervertebral disc degeneration. <i>FASEB Journal</i> , 2019 , 33, 11555-11566	0.9	33
74	Carbon monoxide releasing molecule-3 alleviates neuron death after spinal cord injury via inflammasome regulation. <i>EBioMedicine</i> , 2019 , 40, 643-654	8.8	33
73	Monotropein promotes angiogenesis and inhibits oxidative stress-induced autophagy in endothelial progenitor cells to accelerate wound healing. <i>Journal of Cellular and Molecular Medicine</i> , 2018 , 22, 1583-1600	5.6	32
72	Pooled analysis of non-union, re-operation, infection, and approach related complications after anterior odontoid screw fixation. <i>PLoS ONE</i> , 2014 , 9, e103065	3.7	31
71	BRD4 inhibition attenuates inflammatory response in microglia and facilitates recovery after spinal cord injury in rats. <i>Journal of Cellular and Molecular Medicine</i> , 2019 , 23, 3214-3223	5.6	30
70	Gastrodin reduces IL-1 β -induced apoptosis, inflammation, and matrix catabolism in osteoarthritis chondrocytes and attenuates rat cartilage degeneration in vivo. <i>Biomedicine and Pharmacotherapy</i> , 2018 , 97, 642-651	7.5	29
69	Salvianolic acid B inhibits IL-1 β -induced inflammatory cytokine production in human osteoarthritis chondrocytes and has a protective effect in a mouse osteoarthritis model. <i>International Immunopharmacology</i> , 2017 , 46, 31-37	5.8	27
68	Metformin ameliorates BSCB disruption by inhibiting neutrophil infiltration and MMP-9 expression but not direct TJ proteins expression regulation. <i>Journal of Cellular and Molecular Medicine</i> , 2017 , 21, 3322-3336	5.6	27
67	SIRT3 Activation by Dihydromyricetin Suppresses Chondrocytes Degeneration via Maintaining Mitochondrial Homeostasis. <i>International Journal of Biological Sciences</i> , 2018 , 14, 1873-1882	11.2	27

66	The effects of lactate and acid on articular chondrocytes function: Implications for polymeric cartilage scaffold design. <i>Acta Biomaterialia</i> , 2016 , 42, 329-340	10.8	26
65	Fusion versus nonfusion for surgically treated thoracolumbar burst fractures: a meta-analysis. <i>PLoS ONE</i> , 2013 , 8, e63995	3.7	26
64	Polydatin suppresses nucleus pulposus cell senescence, promotes matrix homeostasis and attenuates intervertebral disc degeneration in rats. <i>Journal of Cellular and Molecular Medicine</i> , 2018 , 22, 5720-5731	5.6	26
63	Artificial periosteum in bone defect repair: A review. <i>Chinese Chemical Letters</i> , 2017 , 28, 1801-1807	8.1	25
62	Therapeutic effects of gefitinib-encapsulated thermosensitive injectable hydrogel in intervertebral disc degeneration. <i>Biomaterials</i> , 2018 , 160, 56-68	15.6	24
61	Wogonoside inhibits IL-1 β -induced catabolism and hypertrophy in mouse chondrocyte and ameliorates murine osteoarthritis. <i>Oncotarget</i> , 2017 , 8, 61440-61456	3.3	23
60	Inhibition of EZH2 ameliorates cartilage endplate degeneration and attenuates the progression of intervertebral disc degeneration via demethylation of Sox-9. <i>EBioMedicine</i> , 2019 , 48, 619-629	8.8	22
59	Lactate down-regulates matrix synthesis and promotes apoptosis and autophagy in rat nucleus pulposus cells. <i>Journal of Orthopaedic Research</i> , 2014 , 32, 253-61	3.8	22
58	Autologous Olfactory Lamina Propria Transplantation for Chronic Spinal Cord Injury: Three-Year Follow-Up Outcomes From a Prospective Double-Blinded Clinical Trial. <i>Cell Transplantation</i> , 2016 , 25, 141-57	4	21
57	STING promotes senescence, apoptosis, and extracellular matrix degradation in osteoarthritis via the NF- κ B signaling pathway. <i>Cell Death and Disease</i> , 2021 , 12, 13	9.8	21
56	Small molecule natural compound agonist of SIRT3 as a therapeutic target for the treatment of intervertebral disc degeneration. <i>Experimental and Molecular Medicine</i> , 2018 , 50, 1-14	12.8	20
55	Effects of extracellular calcium on viability and osteogenic differentiation of bone marrow stromal cells in vitro. <i>Human Cell</i> , 2013 , 26, 114-20	4.5	19
54	Knockdown of lncRNA KCNQ1OT1 suppresses the adipogenic and osteogenic differentiation of tendon stem cell via downregulating miR-138 target genes PPAR γ and RUNX2. <i>Cell Cycle</i> , 2018 , 17, 2374-2385	4.7	19
53	Luteoloside Inhibits IL-1 β -Induced Apoptosis and Catabolism in Nucleus Pulposus Cells and Ameliorates Intervertebral Disk Degeneration. <i>Frontiers in Pharmacology</i> , 2019 , 10, 868	5.6	18
52	Dual regulation of microglia and neurons by Astragaloside IV-mediated mTORC1 suppression promotes functional recovery after acute spinal cord injury. <i>Journal of Cellular and Molecular Medicine</i> , 2020 , 24, 671-685	5.6	17
51	Therapeutic Potential of Naringin for Intervertebral Disc Degeneration: Involvement of Autophagy Against Oxidative Stress-Induced Apoptosis in Nucleus Pulposus Cells. <i>The American Journal of Chinese Medicine</i> , 2018 , 1-20	6	17
50	Gefitinib for Epidermal Growth Factor Receptor Activated Osteoarthritis Subpopulation Treatment. <i>EBioMedicine</i> , 2018 , 32, 223-233	8.8	16
49	Management of hangman's fracture with percutaneous transpedicular screw fixation. <i>European Spine Journal</i> , 2013 , 22, 79-86	2.7	16

48	Differentiation of menstrual blood-derived stem cells toward nucleus pulposus-like cells in a coculture system with nucleus pulposus cells. <i>Spine</i> , 2014 , 39, 754-60	3.3	16
47	Classification of four distinct osteoarthritis subtypes with a knee joint tissue transcriptome atlas. <i>Bone Research</i> , 2020 , 8, 38	13.3	16
46	The Sirt1/P53 Axis in Diabetic Intervertebral Disc Degeneration Pathogenesis and Therapeutics. <i>Oxidative Medicine and Cellular Longevity</i> , 2019 , 2019, 7959573	6.7	15
45	Proliferation of rabbit chondrocyte and inhibition of IL-1 β induced apoptosis through MEK/ERK signaling by statins. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2017 , 53, 124-131	2.6	15
44	Effect of Hypoxia on Self-Renewal Capacity and Differentiation in Human Tendon-Derived Stem Cells. <i>Medical Science Monitor</i> , 2017 , 23, 1334-1339	3.2	15
43	Endoplasmic Reticulum Stress and NF- κ B Pathway in Salidroside Mediated Neuroprotection: Potential of Salidroside in Neurodegenerative Diseases. <i>The American Journal of Chinese Medicine</i> , 2017 , 45, 1459-1475	6	14
42	The Emerging Roles of the Gaseous Signaling Molecules NO, HS, and CO in the Regulation of Stem Cells. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 798-812	5.5	13
41	Targeting mitochondrial dysfunction with small molecules in intervertebral disc aging and degeneration. <i>GeroScience</i> , 2021 , 43, 517-537	8.9	12
40	Delivery of epidermal growth factor receptor inhibitor via a customized collagen scaffold promotes meniscal defect regeneration in a rabbit model. <i>Acta Biomaterialia</i> , 2017 , 62, 210-221	10.8	11
39	Incidence of heterotopic ossification after implantation of interspinous process devices. <i>Neurosurgical Focus</i> , 2013 , 35, E3	4.2	11
38	Puerarin suppresses inflammation and ECM degradation through Nrf2/HO-1 axis in chondrocytes and alleviates pain symptom in osteoarthritic mice. <i>Food and Function</i> , 2021 , 12, 2075-2089	6.1	10
37	Effects of hypoxia on differentiation of menstrual blood stromal stem cells towards tenogenic cells in a co-culture system with Achilles tendon cells. <i>Experimental and Therapeutic Medicine</i> , 2017 , 13, 3195-3202	3.1	7
36	Dual-color labeled anti-mucin 1 antibody for imaging of ovarian cancer: A preliminary animal study. <i>Oncology Letters</i> , 2015 , 9, 1231-1235	2.6	7
35	Akebia Saponin D suppresses inflammation in chondrocytes via the NRF2/HO-1/NF- κ B axis and ameliorates osteoarthritis in mice. <i>Food and Function</i> , 2020 , 11, 10852-10863	6.1	7
34	Enhancement of bone formation with a synthetic matrix containing bone morphogenetic protein-2 by the addition of calcium citrate. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2013 , 21, 456-65	5.5	7
33	The projection of nerve roots on the posterior aspect of spine from T11 to L5: a cadaver and radiological study. <i>Spine</i> , 2012 , 37, E1232-7	3.3	7
32	RNA-binding protein HuR suppresses senescence through Atg7 mediated autophagy activation in diabetic intervertebral disc degeneration. <i>Cell Proliferation</i> , 2021 , 54, e12975	7.9	7
31	The therapeutic effect of TBK1 in intervertebral disc degeneration via coordinating selective autophagy and autophagic functions. <i>Journal of Advanced Research</i> , 2021 , 30, 1-13	13	7

30	Differentiation Potential of Mesenchymal Stem Cells Derived from Adipose Tissue vs Bone Marrow Toward Annulus Fibrosus Cells In vitro. <i>Current Stem Cell Research and Therapy</i> , 2017 , 12, 432-439	3.6	6
29	Astragaloside IV Loaded Polycaprolactone Membrane Repairs Blood Spinal Cord Barrier and Recovers Spinal Cord Function in Traumatic Spinal Cord Injury. <i>Journal of Biomedical Nanotechnology</i> , 2019 , 15, 799-812	4	6
28	S-allyl cysteine reduces osteoarthritis pathology in the tert-butyl hydroperoxide-treated chondrocytes and the destabilization of the medial meniscus model mice via the Nrf2 signaling pathway. <i>Aging</i> , 2020 , 12, 19254-19272	5.6	6
27	Itaconate attenuates osteoarthritis by inhibiting STING/NF- κ B axis in chondrocytes and promoting M2 polarization in macrophages.. <i>Biochemical Pharmacology</i> , 2022 , 114935	6	5
26	Betulin Alleviates the Inflammatory Response in Mouse Chondrocytes and Ameliorates Osteoarthritis via AKT/Nrf2/HO-1/NF- κ B Axis. <i>Frontiers in Pharmacology</i> , 2021 , 12, 754038	5.6	5
25	A novel micro-CT-based method to monitor the morphology of blood vessels in the rabbit endplate. <i>European Spine Journal</i> , 2017 , 26, 221-227	2.7	4
24	20-Deoxyingenol alleviates osteoarthritis by activating TFEB in chondrocytes. <i>Pharmacological Research</i> , 2021 , 165, 105361	10.2	4
23	Projection of the Most Anterior Line of the Spinal Canal on Lateral Radiograph: An Anatomic Study for Percutaneous Kyphoplasty and Percutaneous Vertebroplasty. <i>Journal of Investigative Surgery</i> , 2020 , 33, 134-140	1.2	4
22	Cardamonin protects nucleus pulposus cells against IL-1 β Induced inflammation and catabolism via Nrf2/NF- κ B axis. <i>Food and Function</i> , 2021 , 12, 2703-2714	6.1	4
21	CO-Releasing Molecule (CORM)-3 Ameliorates Spinal Cord-Blood Barrier Disruption Following Injury to the Spinal Cord. <i>Frontiers in Pharmacology</i> , 2020 , 11, 761	5.6	3
20	Sodium lactate promotes stemness of human mesenchymal stem cells through KDM6B mediated glycolytic metabolism. <i>Biochemical and Biophysical Research Communications</i> , 2020 , 532, 433-439	3.4	3
19	Circular RNAs in compression-induced intervertebral disk degeneration. <i>EBioMedicine</i> , 2020 , 54, 102720	8.8	3
18	RNA-Binding Protein HuR Suppresses Inflammation and Promotes Extracellular Matrix Homeostasis via NKRF in Intervertebral Disc Degeneration. <i>Frontiers in Cell and Developmental Biology</i> , 2020 , 8, 611234	5.7	3
17	Stachydrine ameliorates the progression of intervertebral disc degeneration via the PI3K/Akt/NF- κ B signaling pathway: in vitro and in vivo studies. <i>Food and Function</i> , 2020 , 11, 10864-10875	6.1	3
16	β -Hydroxyisovalerylshikonin inhibits IL-1 β Induced chondrocyte inflammation Nrf2 and retards osteoarthritis in mice. <i>Food and Function</i> , 2020 , 11, 10219-10230	6.1	3
15	Association between Bone Mineral Density and Severity of Chronic Kidney Disease. <i>International Journal of Endocrinology</i> , 2020 , 2020, 8852690	2.7	2
14	Percutaneous atlantoaxial anterior transarticular screw fixation combined with mini-open posterior C1/2 wire fusion for patients with a high-riding vertebral artery. <i>Journal of Spinal Cord Medicine</i> , 2016 , 39, 234-9	1.9	2
13	Quantitative assessment of the motor-sensory specificity of the motor and primary sensory neurons after the end-to-side neurorrhaphy. <i>Journal of Reconstructive Microsurgery</i> , 2013 , 29, 579-86	2.5	2

12	Apigenin Alleviates Intervertebral Disc Degeneration Restoring Autophagy Flux in Nucleus Pulposus Cells.. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 787278	5.7	2
11	Limonin Inhibits IL-1-Induced Inflammation and Catabolism in Chondrocytes and Ameliorates Osteoarthritis by Activating Nrf2. <i>Oxidative Medicine and Cellular Longevity</i> , 2021 , 2021, 7292512	6.7	2
10	Inhibition of LRRK2 restores parkin-mediated mitophagy and attenuates intervertebral disc degeneration. <i>Osteoarthritis and Cartilage</i> , 2021 , 29, 579-591	6.2	2
9	Xanthohumol suppresses inflammation in chondrocytes and ameliorates osteoarthritis in mice. <i>Biomedicine and Pharmacotherapy</i> , 2021 , 137, 111238	7.5	2
8	High glucose suppresses autophagy through the AMPK pathway while it induces autophagy via oxidative stress in chondrocytes. <i>Cell Death and Disease</i> , 2021 , 12, 506	9.8	2
7	Cycloastragenol and Astragaloside IV activate telomerase and protect nucleus pulposus cells against high glucose-induced senescence and apoptosis. <i>Experimental and Therapeutic Medicine</i> , 2021 , 22, 1326	2.1	2
6	Tangeretin suppresses osteoarthritis progression via the Nrf2/NF- κ B and MAPK/NF- κ B signaling pathways.. <i>Phytomedicine</i> , 2022 , 98, 153928	6.5	1
5	Echinacoside Upregulates Sirt1 to Suppress Endoplasmic Reticulum Stress and Inhibit Extracellular Matrix Degradation and Ameliorates Osteoarthritis. <i>Oxidative Medicine and Cellular Longevity</i> , 2021 , 2021, 3137066	6.7	1
4	Enhancement of motor functional recovery using immunomodulatory extracellular vesicles-loaded injectable thermosensitive hydrogel post spinal cord injury. <i>Chemical Engineering Journal</i> , 2022 , 433, 134465	14.7	0
3	Immune-responsive gene 1/itaconate activates nuclear factor erythroid 2-related factor 2 in microglia to protect against spinal cord injury in mice.. <i>Cell Death and Disease</i> , 2022 , 13, 140	9.8	0
2	The endocrine role of bone: Novel functions of bone-derived cytokines. <i>Biochemical Pharmacology</i> , 2021 , 183, 114308	6	0
1	Senolytics: Eliminating Senescent Cells and Alleviating Intervertebral Disc Degeneration.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 823945	5.8	0