Xiang-yang Wang

List of Publications by Citations

54 papers	1,205 citations	19 h-index	34 g-index
57 ext. papers	1,649 ext. citations	5.9 avg, IF	4.2 L-index

#	Paper	IF	Citations
54	Metformin protects against apoptosis and senescence in nucleus pulposus cells and ameliorates disc degeneration in vivo. *Cell Death and Disease*, **2016**, 7, e2441	9.8	167
53	Apoptosis, senescence, and autophagy in rat nucleus pulposus cells: Implications for diabetic intervertebral disc degeneration. *Journal of Orthopaedic Research*, **2013**, 31, 692-702	3.8	121
52	Metformin Improves Functional Recovery After Spinal Cord Injury via Autophagy Flux Stimulation. *Molecular Neurobiology*, **2017**, 54, 3327-3341	6.2	87
51	Sirt6 overexpression suppresses senescence and apoptosis of nucleus pulposus cells by inducing autophagy in a model of intervertebral disc degeneration. *Cell Death and Disease*, **2018**, 9, 56	9.8	69
50	Stimulation of autophagy promotes functional recovery in diabetic rats with spinal cord injury. *Scientific Reports*, **2015**, 5, 17130	4.9	59
49	Hydrogen sulfide protects against endoplasmic reticulum stress and mitochondrial injury in nucleus pulposus cells and ameliorates intervertebral disc degeneration. *Pharmacological Research*, **2017**, 117, 357-369	10.2	52
48	Celastrol reduces IL-1 induced matrix catabolism, oxidative stress and inflammation in human nucleus pulposus cells and attenuates rat intervertebral disc degeneration in vivo. *Biomedicine and Pharmacotherapy*, **2017**, 91, 208-219	7.5	41
47	Parkin-mediated mitophagy as a potential therapeutic target for intervertebral disc degeneration. *Cell Death and Disease*, **2018**, 9, 980	9.8	41
46	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. *Cell Death and Disease*, **2018**, 9, 212	9.8	40
45	Melatonin protects vertebral endplate chondrocytes against apoptosis and calcification via the Sirt1-autophagy pathway. *Journal of Cellular and Molecular Medicine*, **2019**, 23, 177-193	5.6	37
44	TFEB protects nucleus pulposus cells against apoptosis and senescence via restoring autophagic flux. *Osteoarthritis and Cartilage*, **2019**, 27, 347-357	6.2	35
43	Stabilization of HIF-1 by FG-4592 promotes functional recovery and neural protection in experimental spinal cord injury. *Brain Research*, **2016**, 1632, 19-26	3.7	34
42	Ligustilide alleviated IL-1 induced apoptosis and extracellular matrix degradation of nucleus pulposus cells and attenuates intervertebral disc degeneration in vivo. *International Immunopharmacology*, **2019**, 69, 398-407	5.8	33
41	Melatonin ameliorates intervertebral disc degeneration via the potential mechanisms of mitophagy induction and apoptosis inhibition. *Journal of Cellular and Molecular Medicine*, **2019**, 23, 2136-2148	5.6	33
40	Biomechanical effect of the extent of vertebral body fracture on the thoracolumbar spine with pedicle screw fixation: an in vitro study. *Journal of Clinical Neuroscience*, **2008**, 15, 286-90	2.2	30
39	BRD4 inhibition attenuates inflammatory response in microglia and facilitates recovery after spinal cord injury in rats. *Journal of Cellular and Molecular Medicine*, **2019**, 23, 3214-3223	5.6	30
38	Spermidine promotes nucleus pulposus autophagy as a protective mechanism against apoptosis and ameliorates disc degeneration. *Journal of Cellular and Molecular Medicine*, **2018**, 22, 3086-3096	5.6	27

37	Polydatin suppresses nucleus pulposus cell senescence, promotes matrix homeostasis and attenuates intervertebral disc degeneration in rats. *Journal of Cellular and Molecular Medicine*, **2018**, 22, 5720-5731	5.6	26
36	Small molecule natural compound agonist of SIRT3 as a therapeutic target for the treatment of intervertebral disc degeneration. *Experimental and Molecular Medicine*, **2018**, 50, 1-14	12.8	20
35	Effects of shear force on intervertebral disc: an in vivo rabbit study. *European Spine Journal*, **2015**, 24, 1711-9	2.7	18
34	Stepwise resection of the posterior ligamentous complex for stability of a thoracolumbar compression fracture: An in vitro biomechanical investigation. *Medicine (United States)*, **2017**, 96, e7873	1.8	18
33	Dual regulation of microglia and neurons by Astragaloside IV-mediated mTORC1 suppression promotes functional recovery after acute spinal cord injury. *Journal of Cellular and Molecular Medicine*, **2020**, 24, 671-685	5.6	17
32	Biomechanical Role of the Thoracolumbar Ligaments of the Posterior Ligamentous Complex: A Finite Element Study. *World Neurosurgery*, **2018**, 112, e125-e133	2.1	16
31	The Sirt1/P53 Axis in Diabetic Intervertebral Disc Degeneration Pathogenesis and Therapeutics. *Oxidative Medicine and Cellular Longevity*, **2019**, 2019, 7959573	6.7	15
30	The radiologic assessment of posterior ligamentous complex injury in patients with thoracolumbar fracture. *European Spine Journal*, **2017**, 26, 1454-1462	2.7	14
29	The Emerging Roles of the Gaseous Signaling Molecules NO, HS, and CO in the Regulation of Stem Cells. *ACS Biomaterials Science and Engineering*, **2020**, 6, 798-812	5.5	13
28	Genistein protects intervertebral discs from degeneration via Nrf2-mediated antioxidant defense system: An in vitro and in vivo study. *Journal of Cellular Physiology*, **2019**, 234, 16348	7	12
27	Betulinic acid inhibits pyroptosis in spinal cord injury by augmenting autophagy via the AMPK-mTOR-TFEB signaling pathway. *International Journal of Biological Sciences*, **2021**, 17, 1138-1152	11.2	10
26	Factors Associated with Cervical Spine Alignment in an Asymptomatic Population: A Preliminary Analysis. *World Neurosurgery*, **2019**, 122, e48-e58	2.1	8
25	Akebia Saponin D suppresses inflammation in chondrocytes via the NRF2/HO-1/NF-B axis and ameliorates osteoarthritis in mice. *Food and Function*, **2020**, 11, 10852-10863	6.1	7
24	RNA-binding protein HuR suppresses senescence through Atg7 mediated autophagy activation in diabetic intervertebral disc degeneration. *Cell Proliferation*, **2021**, 54, e12975	7.9	7
23	Inhibition of Brd4 by JQ1 Promotes Functional Recovery From Spinal Cord Injury by Activating Autophagy. *Frontiers in Cellular Neuroscience*, **2020**, 14, 555591	6.1	7
22	The therapeutic effect of TBK1 in intervertebral disc degeneration via coordinating selective autophagy and autophagic functions. *Journal of Advanced Research*, **2021**, 30, 1-13	13	7
21	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. *Aging*, **2020**, 12, 19254-19272	5.6	6
20	Rate of presence of 11 thoracic vertebrae and 6 lumbar vertebrae in asymptomatic Chinese adult volunteers. *Journal of Orthopaedic Surgery and Research*, **2018**, 13, 124	2.8	5

19	Acceptable Chin-Brow Vertical Angle for Neutral Position Radiography: Preliminary Analyses Based on Parameters of the Whole Sagittal Spine of an Asymptomatic Chinese Population. *World Neurosurgery*, **2018**, 120, e488-e496	2.1	5
18	An imaging study of the compressed area, bony fragment area, and the total fracture-involved area in thoracolumbar burst fractures. *Journal of Spinal Disorders and Techniques*, **2014**, 27, 207-11		4
17	Promoting Nrf2/Sirt3-Dependent Mitophagy Suppresses Apoptosis in Nucleus Pulposus Cells and Protects against Intervertebral Disc Degeneration. *Oxidative Medicine and Cellular Longevity*, **2021**, 2021, 6694964	6.7	4
16	Cardamonin protects nucleus pulposus cells against IL-1β induced inflammation and catabolism via Nrf2/NF-κB axis. *Food and Function*, **2021**, 12, 2703-2714	6.1	4
15	A Clinical Model of Bone Angiosarcoma Patients: A Population-based Analysis of Epidemiology, Prognosis, and Treatment. *Orthopaedic Surgery*, **2020**, 12, 1652-1662	2.5	3
14	Stachydrine ameliorates the progression of intervertebral disc degeneration via the PI3K/Akt/NF-κB signaling pathway: in vitro and in vivo studies. *Food and Function*, **2020**, 11, 10864-10875	6.1	3
13	β-Hydroxyisovalerylshikonin inhibits IL-1β induced chondrocyte inflammation Nrf2 and retards osteoarthritis in mice. *Food and Function*, **2020**, 11, 10219-10230	6.1	3
12	Risk Factor of Failed Reduction of Posterior Ligamentatoxis Reduction Instrumentation in Managing Thoracolumbar Burst Fractures: A Retrospective Study. *World Neurosurgery*, **2018**, 119, e475-e481	2.1	3
11	Apigenin Alleviates Intervertebral Disc Degeneration Restoring Autophagy Flux in Nucleus Pulposus Cells.. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 787278	5.7	2
10	GDF-11 Protects the Traumatically Injured Spinal Cord by Suppressing Pyroptosis and Necroptosis via TFE3-Mediated Autophagy Augmentation. *Oxidative Medicine and Cellular Longevity*, **2021**, 2021, 1-31	6.7	2
9	Limonin Inhibits IL-1-Induced Inflammation and Catabolism in Chondrocytes and Ameliorates Osteoarthritis by Activating Nrf2. *Oxidative Medicine and Cellular Longevity*, **2021**, 2021, 7292512	6.7	2
8	High glucose suppresses autophagy through the AMPK pathway while it induces autophagy via oxidative stress in chondrocytes. *Cell Death and Disease*, **2021**, 12, 506	9.8	2
7	No evidence of a correlation between lumbar spinal subtypes and intervertebral disc degeneration among asymptomatic middle-aged and aged patients. *Experimental and Therapeutic Medicine*, **2020**, 20, 2993-3000	2.1	1
6	GDF-11 Protects the Traumatically Injured Spinal Cord by Suppressing Pyroptosis and Necroptosis via TFE3-Mediated Autophagy Augmentation. *Oxidative Medicine and Cellular Longevity*, **2021**, 2021, 8186877	6.7	1
5	Enhancement of Cancer Chemotherapeutic Efficacy via Bone-Targeted Drug Delivery Carrier in Bone Metastases. *Drug Design, Development and Therapy*, **2021**, 15, 4455-4468	4.4	1
4	18β-Glycyrrhetinic acid inhibits IL-1β induced inflammatory response in mouse chondrocytes and prevents osteoarthritic progression by activating Nrf2. *Food and Function*, **2021**, 12, 8399-8410	6.1	1
3	Transmuscular Ultrasonography of the Placement of Thoracolumbar Pedicle Screws: A Cadaveric Study. *World Neurosurgery*, **2018**, 115, e360-e365	2.1	0
2	Enhancement of motor functional recovery using immunomodulatory extracellular vesicles-loaded injectable thermosensitive hydrogel post spinal cord injury. *Chemical Engineering Journal*, **2022**, 433, 134465	14.7	0

1	Immune-responsive gene 1/itaconate activates nuclear factor erythroid 2-related factor 2 in microglia to protect against spinal cord injury in mice.. *Cell Death and Disease*, **2022**, 13, 140	9.8	0