

Xiang-yang Wang

List of Publications by Year in descending order

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57
papers

2,072
citations

279798

23
h-index

254184

43
g-index

57
all docs

57
docs citations

57
times ranked

1903
citing authors

#	ARTICLE	IF	CITATIONS
1	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-e2441.	6.3	240
2	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.	2.3	150
3	Metformin Improves Functional Recovery After Spinal Cord Injury via Autophagy Flux Stimulation. <i>Molecular Neurobiology</i> , 2017, 54, 3327-3341.	4.0	114
4	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.	6.3	97
5	Stimulation of autophagy promotes functional recovery in diabetic rats with spinal cord injury. <i>Scientific Reports</i> , 2015, 5, 17130.	3.3	74
6	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.	7.1	73
7	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.	5.6	70
8	Parkin-mediated mitophagy as a potential therapeutic target for intervertebral disc degeneration. <i>Cell Death and Disease</i> , 2018, 9, 980.	6.3	68
9	Betulinic acid inhibits pyroptosis in spinal cord injury by augmenting autophagy via the AMPK-mTOR-TFEB signaling pathway. <i>International Journal of Biological Sciences</i> , 2021, 17, 1138-1152.	6.4	66
10	TFEB protects nucleus pulposus cells against apoptosis and senescence via restoring autophagic flux. <i>Osteoarthritis and Cartilage</i> , 2019, 27, 347-357.	1.3	62
11	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.	3.6	62
12	Ligustilide alleviated IL-1 β induced apoptosis and extracellular matrix degradation of nucleus pulposus cells and attenuates intervertebral disc degeneration in vivo. <i>International Immunopharmacology</i> , 2019, 69, 398-407.	3.8	58
13	Melatonin ameliorates intervertebral disc degeneration via the potential mechanisms of mitophagy induction and apoptosis inhibition. <i>Journal of Cellular and Molecular Medicine</i> , 2019, 23, 2136-2148.	3.6	58
14	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.	6.3	56
15	Stabilization of HIF-1 α by FG-4592 promotes functional recovery and neural protection in experimental spinal cord injury. <i>Brain Research</i> , 2016, 1632, 19-26.	2.2	54
16	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.	3.6	51
17	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.	7.7	48
18	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.	3.6	42

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19	Spermidine promotes nucleus pulposus autophagy as a protective mechanism against apoptosis and ameliorates disc degeneration. <i>Journal of Cellular and Molecular Medicine</i> , 2018, 22, 3086-3096.	3.6	41
20	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.	3.6	36
21	Biomechanical effect of the extent of vertebral body fracture on the thoracolumbar spine with pedicle screw fixation: An in vitro study. <i>Journal of Clinical Neuroscience</i> , 2008, 15, 286-290.	1.5	35
22	Biomechanical Role of the Thoracolumbar Ligaments of the Posterior Ligamentous Complex: A Finite Element Study. <i>World Neurosurgery</i> , 2018, 112, e125-e133.	1.3	28
23	Akebia Saponin D suppresses inflammation in chondrocytes <i>via</i> the NRF2/HO-1/NF- κ B axis and ameliorates osteoarthritis in mice. <i>Food and Function</i> , 2020, 11, 10852-10863.	4.6	28
24	Limonin Inhibits IL-1 β -Induced Inflammation and Catabolism in Chondrocytes and Ameliorates Osteoarthritis by Activating Nrf2. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-15.	4.0	25
25	Effects of shear force on intervertebral disc: an in vivo rabbit study. <i>European Spine Journal</i> , 2015, 24, 1711-1719.	2.2	24
26	Stepwise resection of the posterior ligamentous complex for stability of a thoracolumbar compression fracture. <i>Medicine (United States)</i> , 2017, 96, e7873.	1.0	24
27	The Sirt1/P53 Axis in Diabetic Intervertebral Disc Degeneration Pathogenesis and Therapeutics. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-21.	4.0	24
28	Promoting Nrf2/Sirt3-Dependent Mitophagy Suppresses Apoptosis in Nucleus Pulposus Cells and Protects against Intervertebral Disc Degeneration. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-20.	4.0	24
29	RNA-binding protein HuR suppresses senescence through Atg7 mediated autophagy activation in diabetic intervertebral disc degeneration. <i>Cell Proliferation</i> , 2021, 54, e12975.	5.3	24
30	Genistein protects intervertebral discs from degeneration via Nrf2-mediated antioxidant defense system: An in vitro and in vivo study. <i>Journal of Cellular Physiology</i> , 2019, 234, 16348-16356.	4.1	23
31	The Emerging Roles of the Gaseous Signaling Molecules NO, H ₂ S, and CO in the Regulation of Stem Cells. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 798-812.	5.2	23
32	The radiologic assessment of posterior ligamentous complex injury in patients with thoracolumbar fracture. <i>European Spine Journal</i> , 2017, 26, 1454-1462.	2.2	22
33	Inhibition of Brd4 by JQ1 Promotes Functional Recovery From Spinal Cord Injury by Activating Autophagy. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 555591.	3.7	19
34	GDF-11 Protects the Traumatically Injured Spinal Cord by Suppressing Pyroptosis and Necroptosis via TFE3-Mediated Autophagy Augmentation. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-31.	4.0	19
35	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.	6.3	18
36	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.	9.5	17

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37	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.	6.3	16
38	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.	4.6	15
39	Stachydrine ameliorates the progression of intervertebral disc degeneration via the PI3K/Akt/NF- κ B signaling pathway: <i>in vitro</i> and <i>in vivo</i> studies. <i>Food and Function</i> , 2020, 11, 10864-10875.	4.6	14
40	18 β -Glycyrrhetic acid inhibits IL-1 β -induced inflammatory response in mouse chondrocytes and prevents osteoarthritic progression by activating Nrf2. <i>Food and Function</i> , 2021, 12, 8399-8410.	4.6	14
41	Apigenin Alleviates Intervertebral Disc Degeneration via Restoring Autophagy Flux in Nucleus Pulposus Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 787278.	3.7	14
42	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.	12.7	14
43	β -Hydroxyisovalerylshikonin inhibits IL-1 β -induced chondrocyte inflammation via Nrf2 and retards osteoarthritis in mice. <i>Food and Function</i> , 2020, 11, 10219-10230.	4.6	13
44	Rate of presence of 11 thoracic vertebrae and 6 lumbar vertebrae in asymptomatic Chinese adult volunteers. <i>Journal of Orthopaedic Surgery and Research</i> , 2018, 13, 124.	2.3	12
45	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.	3.1	12
46	Factors Associated with Cervical Spine Alignment in an Asymptomatic Population: A Preliminary Analysis. <i>World Neurosurgery</i> , 2019, 122, e48-e58.	1.3	11
47	Acceptable Chin β Brow Vertical Angle for Neutral Position Radiography: Preliminary Analyses Based on Parameters of the Whole Sagittal Spine of an Asymptomatic Chinese Population. <i>World Neurosurgery</i> , 2018, 120, e488-e496.	1.3	10
48	Oxidative stress-induced circKIF18A downregulation impairs MCM7-mediated anti-senescence in intervertebral disc degeneration. <i>Experimental and Molecular Medicine</i> , 2022, 54, 285-297.	7.7	8
49	A Clinical Model of Bone Angiosarcoma Patients: A Population-based Analysis of Epidemiology, Prognosis, and Treatment. <i>Orthopaedic Surgery</i> , 2020, 12, 1652-1662.	1.8	6
50	An Imaging Study of the Compressed Area, Bony Fragment Area, and the Total Fracture-involved Area in Thoracolumbar Burst Fractures. <i>Journal of Spinal Disorders and Techniques</i> , 2014, 27, 207-211.	1.9	4
51	Risk Factor of Failed Reduction of Posterior Ligamentotaxis Reduction Instrumentation in Managing Thoracolumbar Burst Fractures: A Retrospective Study. <i>World Neurosurgery</i> , 2018, 119, e475-e481.	1.3	3
52	Enhancement of Cancer Chemotherapeutic Efficacy via Bone-Targeted Drug Delivery Carrier in Bone Metastases. <i>Drug Design, Development and Therapy</i> , 2021, Volume 15, 4455-4468.	4.3	3
53	Transmuscular Ultrasonography of the Placement of Thoracolumbar Pedicle Screws: A Cadaveric Study. <i>World Neurosurgery</i> , 2018, 115, e360-e365.	1.3	2
54	GDF-11 Protects the Traumatically Injured Spinal Cord by Suppressing Pyroptosis and Necroptosis via TFE3-Mediated Autophagy Augmentation. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 8186877.	4.0	2

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55	No evidence of a correlation between lumbar spinal subtypes and intervertebral disc degeneration among asymptomatic middle-aged and aged patients. <i>Experimental and Therapeutic Medicine</i> , 2020, 20, 2993-3000.	1.8	1
56	Variation in Global Spinal Sagittal Parameters in Asymptomatic Adults with 11 Thoracic Vertebrae, four Lumbar Vertebrae, and six Lumbar Vertebrae. <i>Orthopaedic Surgery</i> , 2022, 14, 341-348.	1.8	1
57	Wright's Technique with the Addition of Visualized Axial Cortical Windows in Odontoid Fractures. <i>Orthopaedic Surgery</i> , 2022, 14, 443-450.	1.8	0