

Yukun Zhang

List of Publications by Year in descending order

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65
papers

2,411
citations

172457

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times ranked

1879
citing authors

#	ARTICLE	IF	CITATIONS
1	Exosomes from mesenchymal stem cells modulate endoplasmic reticulum stress to protect against nucleus pulposus cell death and ameliorate intervertebral disc degeneration in vivo. <i>Theranostics</i> , 2019, 9, 4084-4100.	10.0	256
2	Sirtuin 3-dependent mitochondrial redox homeostasis protects against AGEs-induced intervertebral disc degeneration. <i>Redox Biology</i> , 2018, 19, 339-353.	9.0	122
3	Acid-sensing ion channels regulate nucleus pulposus cell inflammation and pyroptosis via the NLRP3 inflammasome in intervertebral disc degeneration. <i>Cell Proliferation</i> , 2021, 54, e12941.	5.3	105
4	MicroRNA-21 controls the development of osteoarthritis by targeting GDF-5 in chondrocytes. <i>Experimental and Molecular Medicine</i> , 2014, 46, e79-e79.	7.7	99
5	Advanced glycation end products regulate anabolic and catabolic activities via NLRP3 inflammasome activation in human nucleus pulposus cells. <i>Journal of Cellular and Molecular Medicine</i> , 2017, 21, 1373-1387.	3.6	98
6	Cytosolic escape of mitochondrial DNA triggers cGAS-STING-NLRP3 axis-dependent nucleus pulposus cell pyroptosis. <i>Experimental and Molecular Medicine</i> , 2022, 54, 129-142.	7.7	94
7	Restoration of Autophagic Flux Rescues Oxidative Damage and Mitochondrial Dysfunction to Protect against Intervertebral Disc Degeneration. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-27.	4.0	75
8	CircRNA-CIDN mitigated compression loading-induced damage in human nucleus pulposus cells via miR-34a-5p/SIRT1 axis. <i>EBioMedicine</i> , 2020, 53, 102679.	6.1	75
9	Ferroportin-Dependent Iron Homeostasis Protects against Oxidative Stress-Induced Nucleus Pulposus Cell Ferroptosis and Ameliorates Intervertebral Disc Degeneration In Vivo. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-18.	4.0	72
10	Simvastatin Inhibits IL-1 β -Induced Apoptosis and Extracellular Matrix Degradation by Suppressing the NF- κ B and MAPK Pathways in Nucleus Pulposus Cells. <i>Inflammation</i> , 2017, 40, 725-734.	3.8	69
11	Metformin facilitates mesenchymal stem cell-derived extracellular nanovesicles release and optimizes therapeutic efficacy in intervertebral disc degeneration. <i>Biomaterials</i> , 2021, 274, 120850.	11.4	67
12	Berberine ameliorates oxidative stress-induced apoptosis by modulating ER stress and autophagy in human nucleus pulposus cells. <i>Life Sciences</i> , 2019, 228, 85-97.	4.3	65
13	MicroRNA-16-5p Controls Development of Osteoarthritis by Targeting SMAD3 in Chondrocytes. <i>Current Pharmaceutical Design</i> , 2015, 21, 5160-5167.	1.9	63
14	Long non-coding RNA HOTAIR modulates intervertebral disc degenerative changes via Wnt/ β -catenin pathway. <i>Arthritis Research and Therapy</i> , 2019, 21, 201.	3.5	58
15	WTAP-mediated m6A modification of lncRNA NORAD promotes intervertebral disc degeneration. <i>Nature Communications</i> , 2022, 13, 1469.	12.8	55
16	MicroRNA-23a-3p promotes the development of osteoarthritis by directly targeting SMAD3 in chondrocytes. <i>Biochemical and Biophysical Research Communications</i> , 2016, 478, 467-473.	2.1	46
17	Epigenetic silencing of miRNA-143 regulates apoptosis by targeting BCL2 in human intervertebral disc degeneration. <i>Gene</i> , 2017, 628, 259-266.	2.2	45
18	Sirtuin 6 prevents matrix degradation through inhibition of the NF- κ B pathway in intervertebral disc degeneration. <i>Experimental Cell Research</i> , 2017, 352, 322-332.	2.6	44

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19	lncRNA HOTAIR upregulates autophagy to promote apoptosis and senescence of nucleus pulposus cells. <i>Journal of Cellular Physiology</i> , 2020, 235, 2195-2208.	4.1	44
20	Angiotensin-like protein 8 expression and association with extracellular matrix metabolism and inflammation during intervertebral disc degeneration. <i>Journal of Cellular and Molecular Medicine</i> , 2019, 23, 5737-5750.	3.6	43
21	MicroRNA-7 regulates IL-1 β -induced extracellular matrix degeneration by targeting GDF5 in human nucleus pulposus cells. <i>Biomedicine and Pharmacotherapy</i> , 2016, 83, 1414-1421.	5.6	39
22	Mechanosensitive Ion Channel Piezo1 Activated by Matrix Stiffness Regulates Oxidative Stress-Induced Senescence and Apoptosis in Human Intervertebral Disc Degeneration. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-13.	4.0	38
23	Icariin protects human nucleus pulposus cells from hydrogen peroxide-induced mitochondria-mediated apoptosis by activating nuclear factor erythroid 2-related factor 2. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165575.	3.8	37
24	Icariin Attenuates Interleukin-1 β -Induced Inflammatory Response in Human Nucleus Pulposus Cells. <i>Current Pharmaceutical Design</i> , 2018, 23, 6071-6078.	1.9	37
25	MicroRNA-494 promotes apoptosis and extracellular matrix degradation in degenerative human nucleus pulposus cells. <i>Oncotarget</i> , 2017, 8, 27868-27881.	1.8	36
26	Bone-derived mesenchymal stem cells alleviate compression-induced apoptosis of nucleus pulposus cells by N6 methyladenosine of autophagy. <i>Cell Death and Disease</i> , 2020, 11, 103.	6.3	35
27	The noncoding RNA linc-ADAMTS5 cooperates with RREB1 to protect from intervertebral disc degeneration through inhibiting ADAMTS5 expression. <i>Clinical Science</i> , 2017, 131, 965-979.	4.3	34
28	Autophagy attenuates compression-induced apoptosis of human nucleus pulposus cells via MEK/ERK/NRF1/Atg7 signaling pathways during intervertebral disc degeneration. <i>Experimental Cell Research</i> , 2018, 370, 87-97.	2.6	34
29	Autophagic Degradation of Gasdermin D Protects against Nucleus Pulposus Cell Pyroptosis and Retards Intervertebral Disc Degeneration In Vivo. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-22.	4.0	34
30	The potential role of melatonin in retarding intervertebral disc ageing and degeneration: A systematic review. <i>Ageing Research Reviews</i> , 2021, 70, 101394.	10.9	34
31	Inhibition of microRNA-34a prevents IL-1 β -induced extracellular matrix degradation in nucleus pulposus by increasing GDF5 expression. <i>Experimental Biology and Medicine</i> , 2016, 241, 1924-1932.	2.4	32
32	Methylation of microRNA-129-5P modulates nucleus pulposus cell autophagy by targeting Beclin-1 in intervertebral disc degeneration. <i>Oncotarget</i> , 2017, 8, 86264-86276.	1.8	31
33	Impaired calcium homeostasis via advanced glycation end products promotes apoptosis through endoplasmic reticulum stress in human nucleus pulposus cells and exacerbates intervertebral disc degeneration in rats. <i>FEBS Journal</i> , 2019, 286, 4356-4373.	4.7	28
34	Allicin Attenuated Advanced Oxidation Protein Product-Induced Oxidative Stress and Mitochondrial Apoptosis in Human Nucleus Pulposus Cells. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-17.	4.0	28
35	MicroRNA-15b silencing inhibits IL-1 β -induced extracellular matrix degradation by targeting SMAD3 in human nucleus pulposus cells. <i>Biotechnology Letters</i> , 2017, 39, 623-632.	2.2	27
36	m6A hypomethylation of DNMT3B regulated by ALKBH5 promotes intervertebral disc degeneration via E4F1 deficiency. <i>Clinical and Translational Medicine</i> , 2022, 12, e765.	4.0	27

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37	Co-culture of mesenchymal stem cells with umbilical vein endothelial cells under hypoxic condition. <i>Journal of Huazhong University of Science and Technology [Medical Sciences]</i> , 2012, 32, 173-180.	1.0	26
38	Targeting the IL-1 β /IL-1Ra pathways for the aggregation of human islet amyloid polypeptide in an ex vivo organ culture system of the intervertebral disc. <i>Experimental and Molecular Medicine</i> , 2019, 51, 1-16.	7.7	26
39	Elevated expression of microRNA-30b in osteoarthritis and its role in ERG regulation of chondrocyte. <i>Biomedicine and Pharmacotherapy</i> , 2015, 76, 94-99.	5.6	24
40	Clinical Outcomes of Uniportal and Biportal Lumbar Endoscopic Unilateral Laminotomy for Bilateral Decompression in Patients with Lumbar Spinal Stenosis: A Retrospective Pair-Matched Case-Control Study. <i>World Neurosurgery</i> , 2022, 161, e134-e145.	1.3	17
41	The role of angiopoietin-2 in nucleus pulposus cells during human intervertebral disc degeneration. <i>Laboratory Investigation</i> , 2017, 97, 971-982.	3.7	16
42	Comparison of lumbar endoscopic unilateral laminotomy bilateral decompression and minimally invasive surgery transforaminal lumbar interbody fusion for one-level lumbar spinal stenosis. <i>BMC Musculoskeletal Disorders</i> , 2020, 21, 785.	1.9	16
43	Angiopoietin-2 promotes extracellular matrix degradation in human degenerative nucleus pulposus cells. <i>International Journal of Molecular Medicine</i> , 2018, 41, 3551-3558.	4.0	14
44	The distinct roles of myosin IIA and IIB under compression stress in nucleus pulposus cells. <i>Cell Proliferation</i> , 2021, 54, e12987.	5.3	13
45	Down-regulation of islet amyloid polypeptide expression induces death of human annulus fibrosus cells via mitochondrial and death receptor pathways. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 1479-1491.	3.8	12
46	Establishment and characterization of a novel osteosarcoma cell line: CHOS. <i>Journal of Orthopaedic Research</i> , 2016, 34, 2116-2125.	2.3	10
47	Sestrin-Mediated Inhibition of Stress-Induced Intervertebral Disc Degradation Through the Enhancement of Autophagy. <i>Cellular Physiology and Biochemistry</i> , 2018, 45, 1940-1954.	1.6	9
48	Incidence and risk factors of neurological complications during posterior vertebral column resection to correct severe post-tubercular kyphosis with late-onset neurological deficits: case series and review of the literature. <i>Journal of Orthopaedic Surgery and Research</i> , 2018, 13, 269.	2.3	9
49	TNF- α Regulates ITG β 1 and SYND4 Expression in Nucleus Pulposus Cells: Activation of FAK/PI3K Signaling. <i>Inflammation</i> , 2019, 42, 1575-1584.	3.8	9
50	Biomechanical Evaluation of Different Surgical Approaches for the Treatment of Adjacent Segment Diseases After Primary Anterior Cervical Discectomy and Fusion: A Finite Element Analysis. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 718996.	4.1	9
51	Surgical approach and management outcomes for junction tuberculous spondylitis: a retrospective study of 77 patients. <i>Journal of Orthopaedic Surgery and Research</i> , 2018, 13, 312.	2.3	8
52	Transpedicular Wedge Resection Osteotomy of the Apical Vertebrae for the Treatment of Severe and Rigid Thoracic Kyphoscoliosis: A Retrospective Study of 26 Cases. <i>Spine Deformity</i> , 2019, 7, 338-345.	1.5	8
53	Comparison of Clinical Outcomes Following Lumbar Endoscopic Unilateral Laminotomy Bilateral Decompression and Minimally Invasive Transforaminal Lumbar Interbody Fusion for One-Level Lumbar Spinal Stenosis With Degenerative Spondylolisthesis. <i>Frontiers in Surgery</i> , 2020, 7, 596327.	1.4	8
54	FAM134B-Mediated ER-phagy Upregulation Attenuates AGEs-Induced Apoptosis and Senescence in Human Nucleus Pulposus Cells. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-19.	4.0	8

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55	The involvement of regulated in development and DNA damage response 1 (REDD1) in the pathogenesis of intervertebral disc degeneration. <i>Experimental Cell Research</i> , 2018, 372, 188-197.	2.6	7
56	The efficacy of allograft bone using titanium mesh in the posterior-only surgical treatment of thoracic and thoracolumbar spinal tuberculosis. <i>BMC Surgery</i> , 2020, 20, 133.	1.3	6
57	CircCOG8 Downregulation Contributes to the Compression-Induced Intervertebral Disk Degeneration by Targeting miR-182-5p and FOXO3. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 581941.	3.7	5
58	Minimally Invasive Surgery Oblique Lumbar Interbody Debridement and Fusion for the Treatment of Lumbar Spondylodiscitis. <i>Orthopaedic Surgery</i> , 2020, 12, 1120-1130.	1.8	5
59	Autophagy-Based Unconventional Secretary for AIM2 Inflammasome Drives DNA Damage Resistance During Intervertebral Disc Degeneration. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 672847.	3.7	5
60	Fibronectin induced ITGÎ²1/FAKâ€dependent apoptotic pathways determines the fate of degenerative NP cells. <i>Journal of Orthopaedic Research</i> , 2019, 37, 439-448.	2.3	4
61	Comparison of the Clinical Outcomes of Fullâ€Endoscopic Visualized Foraminoplasty and Discectomy <i><i>Versus</i></i> Microdiscectomy for Lumbar Disc Herniation. <i>Orthopaedic Surgery</i> , 2022, 14, 280-289.	1.8	4
62	Spinal surgery and related management on patients with COVID-19: experience of a regional medical centre in Wuhan. <i>Bone & Joint Open</i> , 2020, 1, 88-92.	2.6	3
63	Work characteristics of orthopaedic surgeons during the COVID-19 pandemic: A single center analysis. <i>Perioperative Care and Operating Room Management</i> , 2020, 20, 100127.	0.3	1
64	Spinal surgery and related management on patients with COVID-19: experience of a regional medical centre in Wuhan. <i>Bone & Joint Open</i> , 2020, 1, 88-92.	2.6	1
65	MORPHOLOGICAL ANALYSIS OF THE NUCLEUS PULPOSUS CELLS FROM YOUNG AND OLD RABBIT INTERVERTEBRAL DISC. , 2008, , .		0