

Zhiwei Liao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9828240/publications.pdf>

Version: 2024-02-01

31
papers

1,469
citations

361413

20
h-index

434195

31
g-index

32
all docs

32
docs citations

32
times ranked

1024
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	A novel photothermally controlled multifunctional scaffold for clinical treatment of osteosarcoma and tissue regeneration. <i>Materials Today</i> , 2020, 36, 48-62.	14.2	123
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	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
5	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
6	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
7	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
8	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
9	Engineering Extracellular Vesicles Restore the Impaired Cellular Uptake and Attenuate Intervertebral Disc Degeneration. <i>ACS Nano</i> , 2021, 15, 14709-14724.	14.6	61
10	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
11	WTAP-mediated m6A modification of lncRNA NORAD promotes intervertebral disc degeneration. <i>Nature Communications</i> , 2022, 13, 1469.	12.8	55
12	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
13	Angiopoietin-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
14	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
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	CircHGF suppressed cell proliferation and osteogenic differentiation of BMSCs in ONFH via inhibiting miR-25-3p binding to SMAD7. <i>Molecular Therapy - Nucleic Acids</i> , 2022, 28, 99-113.	5.1	20
22	C3 laminectomy combined with modified unilateral laminoplasty and in situ reconstruction of the midline structures maintained cervical sagittal balance: a retrospective matched-pair case-control study. <i>Spine Journal</i> , 2020, 20, 1403-1412.	1.3	19
23	Nanotopography Sequentially Mediates Human Mesenchymal Stem Cell-Derived Small Extracellular Vesicles for Enhancing Osteogenesis. <i>ACS Nano</i> , 2022, 16, 415-430.	14.6	18
24	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
25	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
26	Small extracellular vesicles with nanomorphology memory promote osteogenesis. <i>Bioactive Materials</i> , 2022, 17, 425-438.	15.6	13
27	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
28	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
29	Autophagy-Based Unconventional Secretory 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
30	Severe Kyphoscoliosis Associated with Multiple Giant Intraspinous Epidural Cysts: A Case Report and Literature Review. <i>World Neurosurgery</i> , 2019, 125, 129-135.	1.3	2
31	Minimally invasive resection of a glomus tumor of the thoracic spine: a case report and literature review. <i>Journal of International Medical Research</i> , 2019, 47, 2746-2753.	1.0	1