

Cao Yang

List of Publications by Year in descending order

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150
papers

4,270
citations

109321

35
h-index

168389

53
g-index

159
all docs

159
docs citations

159
times ranked

3859
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	Regulation of macrophage polarization through surface topography design to facilitate implant-to-bone osteointegration. <i>Science Advances</i> , 2021, 7, .	10.3	176
3	Sirtuin 3-dependent mitochondrial redox homeostasis protects against AGEs-induced intervertebral disc degeneration. <i>Redox Biology</i> , 2018, 19, 339-353.	9.0	122
4	Dual Metal-Organic Framework Heterointerface. <i>ACS Central Science</i> , 2019, 5, 1591-1601.	11.3	108
5	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
6	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
7	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
8	TNF- α mediated inflammatory macrophage polarization contributes to the pathogenesis of steroid-induced osteonecrosis in mice. <i>International Journal of Immunopathology and Pharmacology</i> , 2015, 28, 351-361.	2.1	91
9	Long noncoding RNA MALAT1 as a potential therapeutic target in osteosarcoma. <i>Journal of Orthopaedic Research</i> , 2016, 34, 932-941.	2.3	86
10	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
11	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
12	Accelerated Bone Regeneration by Gold-Nanoparticle-Loaded Mesoporous Silica through Stimulating Immunomodulation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41758-41769.	8.0	73
13	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
14	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
15	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
16	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
17	Engineering Extracellular Vesicles Restore the Impaired Cellular Uptake and Attenuate Intervertebral Disc Degeneration. <i>ACS Nano</i> , 2021, 15, 14709-14724.	14.6	61
18	miR-17 inhibitor suppressed osteosarcoma tumor growth and metastasis via increasing PTEN expression. <i>Biochemical and Biophysical Research Communications</i> , 2014, 444, 230-234.	2.1	60

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19	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
20	Development of Novel Biocomposite Scaffold of Chitosan-Gelatin/Nanohydroxyapatite for Potential Bone Tissue Engineering Applications. <i>Nanoscale Research Letters</i> , 2016, 11, 487.	5.7	56
21	Piezo-Augmented Sonosensitizer with Strong Ultrasound-Propelling Ability for Efficient Treatment of Osteomyelitis. <i>ACS Nano</i> , 2022, 16, 2546-2557.	14.6	56
22	MicroRNA-132 upregulation promotes matrix degradation in intervertebral disc degeneration. <i>Experimental Cell Research</i> , 2017, 359, 39-49.	2.6	55
23	WTAP-mediated m6A modification of lncRNA NORAD promotes intervertebral disc degeneration. <i>Nature Communications</i> , 2022, 13, 1469.	12.8	55
24	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
25	Mitochondrial quality control in intervertebral disc degeneration. <i>Experimental and Molecular Medicine</i> , 2021, 53, 1124-1133.	7.7	46
26	The Proteolysis of ECM in Intervertebral Disc Degeneration. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1715.	4.1	46
27	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
28	Biomechanical Evaluation of Transforaminal Lumbar Interbody Fusion and Oblique Lumbar Interbody Fusion on the Adjacent Segment: A Finite Element Analysis. <i>World Neurosurgery</i> , 2019, 126, e819-e824.	1.3	45
29	<p>Gold nanoparticles-loaded hydroxyapatite composites guide osteogenic differentiation of human mesenchymal stem cells through Wnt/ β -catenin signaling pathway</p>. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 6151-6163.	6.7	44
30	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
31	Osteointegration of 3D-Printed Fully Porous Polyetheretherketone Scaffolds with Different Pore Sizes. <i>ACS Omega</i> , 2020, 5, 26655-26666.	3.5	44
32	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
33	Clinical Characteristics and Short-Term Outcomes of Severe Patients With COVID-19 in Wuhan, China. <i>Frontiers in Medicine</i> , 2020, 7, 491.	2.6	43
34	Ultrasonic Interfacial Engineering of MoS ₂ -Modified Zn Single-Atom Catalysts for Efficient Osteomyelitis Sonodynamic Ion Therapy. <i>Small</i> , 2022, 18, e2105775.	10.0	43
35	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
36	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

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37	Rejuvenation of Senescent Bone Marrow Mesenchymal Stromal Cells by Pulsed Triboelectric Stimulation. <i>Advanced Science</i> , 2021, 8, e2100964.	11.2	38
38	p53 overexpression increases chemosensitivity in multidrug-resistant osteosarcoma cell lines. <i>Cancer Chemotherapy and Pharmacology</i> , 2016, 77, 349-356.	2.3	37
39	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
40	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
41	IAPP modulates cellular autophagy, apoptosis, and extracellular matrix metabolism in human intervertebral disc cells. <i>Cell Death Discovery</i> , 2017, 3, 16107.	4.7	36
42	MicroRNA-494 promotes apoptosis and extracellular matrix degradation in degenerative human nucleus pulposus cells. <i>Oncotarget</i> , 2017, 8, 27868-27881.	1.8	36
43	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
44	Single-Cell Transcriptome Profiling Reveals Multicellular Ecosystem of Nucleus Pulposus during Degeneration Progression. <i>Advanced Science</i> , 2022, 9, e2103631.	11.2	35
45	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
46	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
47	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
48	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
49	Controlled chondrogenesis from adipose-derived stem cells by recombinant transforming growth factor- β 3 fusion protein in peptide scaffolds. <i>Acta Biomaterialia</i> , 2015, 11, 191-203.	8.3	31
50	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
51	Dysregulated miR-127-5p contributes to type II collagen degradation by targeting matrix metalloproteinase-13 in human intervertebral disc degeneration. <i>Biochimie</i> , 2017, 139, 74-80.	2.6	30
52	3D printing of a titanium-tantalum Gyroid scaffold with superb elastic admissible strain, bioactivity and in-situ bone regeneration capability. <i>Additive Manufacturing</i> , 2021, 47, 102223.	3.0	30
53	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
54	Alliin 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

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55	Biomechanical evaluation of adjacent segment degeneration after one- or two-level anterior cervical discectomy and fusion versus cervical disc arthroplasty: A finite element analysis. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 189, 105352.	4.7	28
56	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
57	Mixed Reality Technology Launches in Orthopedic Surgery for Comprehensive Preoperative Management of Complicated Cervical Fractures. <i>Surgical Innovation</i> , 2018, 25, 421-422.	0.9	27
58	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
59	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
60	3D-printed porous titanium scaffolds incorporating niobium for high bone regeneration capacity. <i>Materials and Design</i> , 2020, 194, 108890.	7.0	26
61	The Involvement of Protease Nexin-1 (PN1) in the Pathogenesis of Intervertebral Disc (IVD) Degeneration. <i>Scientific Reports</i> , 2016, 6, 30563.	3.3	25
62	Long non-coding RNA BDNF-AS modulates osteogenic differentiation of bone marrow-derived mesenchymal stem cells. <i>Molecular and Cellular Biochemistry</i> , 2018, 445, 59-65.	3.1	25
63	<p>Effect of umbelliferone on adjuvant-induced arthritis in rats by MAPK/NF-&#kappa;B pathway</p>. <i>Drug Design, Development and Therapy</i> , 2019, Volume 13, 1163-1170.	4.3	25
64	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
65	Mixed Reality Technologyâ€“Assisted Orthopedics Surgery Navigation. <i>Surgical Innovation</i> , 2018, 25, 304-305.	0.9	24
66	Adjacent segment biomechanical changes after one- or two-level anterior cervical discectomy and fusion using either a zero-profile device or cage plus plate: A finite element analysis. <i>Computers in Biology and Medicine</i> , 2020, 120, 103760.	7.0	24
67	Bone Repairment via Mechanosensation of Piezo1 Using Wearable Pulsed Triboelectric Nanogenerator. <i>Small</i> , 2022, 18, .	10.0	23
68	Recent Advances on Highâ€“Performance Polyaryletherketone Materials for Additive Manufacturing. <i>Advanced Materials</i> , 2022, 34, e2200750.	21.0	21
69	Dexamethasone promotes mesenchymal stem cell apoptosis and inhibits osteogenesis by disrupting mitochondrial dynamics. <i>FEBS Open Bio</i> , 2020, 10, 211-220.	2.3	20
70	Synergistic Effects of Targeted PI3K Signaling Inhibition and Chemotherapy in Liposarcoma. <i>PLoS ONE</i> , 2014, 9, e93996.	2.5	19
71	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
72	Histone deacetylase inhibitor PCI-24781 enhances chemotherapy-induced apoptosis in multidrug-resistant sarcoma cell lines. <i>Anticancer Research</i> , 2011, 31, 1115-23.	1.1	19

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73	Vascular endothelial growth factor gene transfection to enhance the repair of avascular necrosis of the femoral head of rabbit. <i>Chinese Medical Journal</i> , 2003, 116, 1544-8.	2.3	19
74	Serum microRNA-17 functions as a prognostic biomarker in osteosarcoma. <i>Oncology Letters</i> , 2016, 12, 4905-4910.	1.8	18
75	Analysis of Sagittal Parameters in Patients Undergoing One- or Two-Level Closing Wedge Osteotomy for Correcting Thoracolumbar Kyphosis Secondary to Ankylosing Spondylitis. <i>Spine</i> , 2017, 42, E848-E854.	2.0	18
76	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
77	Surgical strategies for the treatment of os odontoideum with atlantoaxial dislocation. <i>Journal of Neurosurgery: Spine</i> , 2018, 28, 131-139.	1.7	17
78	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
79	Triboelectric Nanogenerators for Cellular Bioelectrical Stimulation. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	17
80	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
81	Micro- and Nanohemispherical 3D Imprints Modulate the Osteogenic Differentiation and Mineralization Tendency of Bone Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 35513-35524.	8.0	16
82	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
83	Mid-term outcomes of primary constrained condylar knee arthroplasty for severe knee deformity. <i>Journal of Huazhong University of Science and Technology [Medical Sciences]</i> , 2016, 36, 231-236.	1.0	15
84	The REDD1/TXNIP Complex Accelerates Oxidative Stress-Induced Apoptosis of Nucleus Pulposus Cells through the Mitochondrial Pathway. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-22.	4.0	15
85	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
86	Pramlintide regulation of extracellular matrix (ECM) and apoptosis through mitochondrial-dependent pathways in human nucleus pulposus cells. <i>International Journal of Immunopathology and Pharmacology</i> , 2018, 31, 039463201774750.	2.1	13
87	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
88	Small extracellular vesicles with nanomorphology memory promote osteogenesis. <i>Bioactive Materials</i> , 2022, 17, 425-438.	15.6	13
89	Experimental study of vascular endothelial growth factor gene therapy for avascular necrosis of the femoral head. <i>Journal of Huazhong University of Science and Technology [Medical Sciences]</i> , 2003, 23, 297-299.	1.0	12
90	Apoptosis of human trabecular meshwork cells induced by transforming growth factor- β 2 in vitro. <i>Journal of Huazhong University of Science and Technology [Medical Sciences]</i> , 2004, 24, 87-89.	1.0	12

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91	Rosai-Dorfman disease of the subdural spine with a long segment lesion: A case report and literature review. <i>Journal of International Medical Research</i> , 2017, 45, 875-881.	1.0	12
92	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
93	Deviation analysis for C1/2 pedicle screw placement using a three-dimensional printed drilling guide. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2017, 231, 547-554.	1.8	12
94	Halofuginone attenuates intervertebral discs degeneration by suppressing collagen I production and inactivating TGF β 2 and NF- κ B pathway. <i>Biomedicine and Pharmacotherapy</i> , 2018, 101, 745-753.	5.6	12
95	BCL3 regulates RANKL-induced osteoclastogenesis by interacting with TRAF6 in bone marrow-derived macrophages. <i>Bone</i> , 2018, 114, 257-267.	2.9	11
96	Feasibility of mixed reality-based intraoperative three-dimensional image-guided navigation for atlanto-axial pedicle screw placement. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2019, 233, 1310-1317.	1.8	11
97	MMP-sensitive PEG hydrogel modified with RGD promotes bFGF, VEGF and EPC-mediated angiogenesis. <i>Experimental and Therapeutic Medicine</i> , 2019, 18, 2933-2941.	1.8	11
98	Establishment and characterization of a novel osteosarcoma cell line: CHOS. <i>Journal of Orthopaedic Research</i> , 2016, 34, 2116-2125.	2.3	10
99	An in vivo study of the effect of c-Jun on intervertebral disc degeneration in rats. <i>Bioengineered</i> , 2021, 12, 4320-4330.	3.2	10
100	Outcomes observed during a 1-year clinical and radiographic follow-up of patients treated for 1- or 2-level cervical degenerative disease using a biodegradable anterior cervical plate. <i>Journal of Neurosurgery: Spine</i> , 2016, 25, 205-212.	1.7	9
101	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
102	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
103	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
104	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
105	Effect of transforming growth factor- β 2 on phagocytosis in cultured bovine trabecular meshwork cells. <i>Journal of Tongji Medical University</i> , 2001, 21, 318-320.	0.1	8
106	Neuroprotective effect of melatonin on retinal ganglion cells in rats. <i>Journal of Huazhong University of Science and Technology [Medical Sciences]</i> , 2006, 26, 235-237.	1.0	8
107	Expert consensus for PVCR in severe, rigid and angular spinal deformity treatment: The Kunming consensus. <i>Journal of Orthopaedic Surgery</i> , 2017, 25, 230949901771393.	1.0	8
108	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

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109	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
110	Biomechanical evaluation of anterior and posterior lumbar surgical approaches on the adjacent segment: a finite element analysis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020, 23, 1109-1116.	1.6	8
111	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
112	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
113	Keyhole Foraminotomy via a Percutaneous Posterior Full-endoscopic Approach for Cervical Radiculopathy: An Advanced Procedure and Clinical Study. <i>Current Medical Science</i> , 2020, 40, 1170-1176.	1.8	8
114	Basic fibroblast growth factor gene transfection to enhance the repair of avascular necrosis of the femoral head. <i>Chinese Medical Sciences Journal</i> , 2004, 19, 111-5.	0.4	8
115	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
116	Percutaneous posterior full-endoscopic cervical foraminotomy and discectomy: a finite element analysis and radiological assessment. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020, 23, 805-814.	1.6	7
117	Amyloid protein aggregation in diabetes mellitus accelerate intervertebral disc degeneration. <i>Medical Hypotheses</i> , 2020, 141, 109739.	1.5	7
118	3D Printed Biomimetic Metamaterials with Graded Porosity and Tapering Topology for Improved Cell Seeding and Bone Regeneration. <i>Bioactive Materials</i> , 2023, 25, 677-688.	15.6	7
119	Antagonistic effects of trasilast on proliferation and collagen synthesis induced by TGF- β 2 in cultured human trabecular meshwork cells in cultured human trabecular meshwork cells. <i>Journal of Huazhong University of Science and Technology [Medical Sciences]</i> , 2004, 24, 490-492.	1.0	6
120	Promotion of chondrogenesis of marrow stromal stem cells by TGF- β 3 fusion protein in vitro. <i>Journal of Huazhong University of Science and Technology [Medical Sciences]</i> , 2013, 33, 692-699.	1.0	6
121	Self-Assembled Glucose and Thermo Dual-Responsive Micelles of an Amphiphilic Graft Copolymer. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2014, 63, 115-122.	3.4	6
122	Biomechanical Evaluation of the Sacral Slope on the Adjacent Segment in Transforaminal Lumbar Interbody Fusion: A Finite Element Analysis. <i>World Neurosurgery</i> , 2020, 133, e84-e88.	1.3	6
123	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
124	The Jun signaling pathway has a protective effect on nucleus pulposus cells in patients with intervertebral disc degeneration. <i>Experimental and Therapeutic Medicine</i> , 2020, 20, 1-1.	1.8	6
125	Mesenchymal Stem Cell-Derived Exosomes as a Novel Strategy for the Treatment of Intervertebral Disc Degeneration. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 770510.	3.7	6
126	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

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127	Biomechanical Evaluation and the Assisted 3D Printed Model in the Patient-Specific Preoperative Planning for Thoracic Spinal Tuberculosis: A Finite Element Analysis. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 807.	4.1	5
128	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
129	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
130	Transforming growth factor- β 2 gene cloning and protein expression in human trabecular meshwork cells. <i>Journal of Huazhong University of Science and Technology [Medical Sciences]</i> , 2003, 23, 85-87.	1.0	4
131	Fibronectin induced ITG β 1/FAK-dependent apoptotic pathways determines the fate of degenerative NP cells. <i>Journal of Orthopaedic Research</i> , 2019, 37, 439-448.	2.3	4
132	Clinically suspected fibrocartilaginous embolism: a case report and literature review. <i>International Journal of Neuroscience</i> , 2022, 132, 378-383.	1.6	4
133	Comparison of the Clinical Outcomes of Full-Endoscopic Visualized Foraminoplasty and Discectomy versus Microdiscectomy for Lumbar Disc Herniation. <i>Orthopaedic Surgery</i> , 2022, 14, 280-289.	1.8	4
134	Expression of c-erbB2 in gestational trophoblastic disease and its clinical significance. <i>Journal of Huazhong University of Science and Technology [Medical Sciences]</i> , 2002, 22, 123-125.	1.0	3
135	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
136	Adjacent segment degeneration and spinal cord compression in rigid angular kyphosis of spinal tuberculosis and its intraoperative management strategy. <i>Journal of Spinal Cord Medicine</i> , 2021, 44, 375-382.	1.4	3
137	Preoperative management and postoperative complications associated with transoral decompression for the upper cervical spine. <i>BMC Musculoskeletal Disorders</i> , 2022, 23, 128.	1.9	3
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