Zheng

List of Publications by Year
in descending order

50 papers	1,824 citations	257101 24 h-index	276539 41 g-index
51 all docs	51 docs citations	51 times ranked	1913 citing authors

#	Article	IF	Citations
1	Painful intervertebral disc degeneration and inflammation: from laboratory evidence to clinical interventions. Bone Research, 2021, 9, 7.	5.4	184
2	Melatonin alleviates intervertebral disc degeneration by disrupting the IL-1Î²/NF-ÎºB-NLRP3 inflammasome positive feedback loop. Bone Research, 2020, 8, 10.	5.4	156
3	Comparison of Percutaneous Vertebroplasty and Balloon Kyphoplasty for the Treatment of Single Level Vertebral Compression Fractures: A Meta-analysis of the Literature. Pain Physician, 2015, 18, 209-22.	0.3	109
4	IVD progenitor cells: a new horizon for understanding disc homeostasis and repair. Nature Reviews Rheumatology, 2019, 15, 102-112.	3.5	105
5	Inflammatory Cytokines Induce NOTCH Signaling in Nucleus Pulposus Cells. Journal of Biological Chemistry, 2013, 288, 16761-16774.	1.6	93
6	TGF-Î²1 suppresses CCL3/4 expression through the ERK signaling pathway and inhibits intervertebral disc degeneration and inflammation-related pain in a rat model. Experimental and Molecular Medicine, 2017, 49, e379-e379.	3.2	80
7	Circular RNA circ-4099 is induced by TNF-Î± and regulates ECM synthesis by blocking miR-616-5p inhibition of Sox9 in intervertebral disc degeneration. Experimental and Molecular Medicine, 2018, 50, 1-14.	3.2	80
8	Posterior vertebral column resection in spinal deformity: a systematic review. European Spine Journal, 2016, 25, 2368-2375.	1.0	78
9	Halo-gravity traction in the treatment of severe spinal deformity: a systematic review and meta-analysis. European Spine Journal, 2017, 26, 1810-1816.	1.0	60
10	Inflammation Intensityâ€“Dependent Expression of Osteoinductive Wnt Proteins Is Critical for Ectopic New Bone Formation in Ankylosing Spondylitis. Arthritis and Rheumatology, 2018, 70, 1056-1070.	2.9	59
11	Both expression of cytokines and posterior annulus fibrosus rupture are essential for pain behavior changes induced by degenerative intervertebral disc: An experimental study in rats. Journal of Orthopaedic Research, 2014, 32, 262-272.	1.2	57
12	LIM mineralization proteinâ€1 suppresses TNFâ€Î± induced intervertebral disc degeneration by maintaining nucleus pulposus extracellular matrix production and inhibiting matrix metalloproteinases expression. Journal of Orthopaedic Research, 2015, 33, 294-303.	1.2	51
13	Critical Values of Facet Joint Angulation and Tropism in the Development of Lumbar Degenerative Spondylolisthesis: An International, Large-Scale Multicenter Study by the AOSpine Asia Pacific Research Collaboration Consortium. Global Spine Journal, 2016, 6, 414-421.	1.2	46
14	TNFâ€Î± enhances apoptosis by promoting chop expression in nucleus pulposus cells: role of the MAPK and NFâ€ºB pathways. Journal of Orthopaedic Research, 2019, 37, 697-705.	1.2	42
15	JAG2/Notch2 inhibits intervertebral disc degeneration by modulating cell proliferation, apoptosis, and extracellular matrix. Arthritis Research and Therapy, 2019, 21, 213.	1.6	38
16	Pelvic retroversion is the key protective mechanism of L4â€“5 degenerative spondylolisthesis. European Spine Journal, 2015, 24, 1204-1211.	1.0	37
17	The involvement of immune system in intervertebral disc herniation and degeneration. JOR Spine, 2022, 5, e1196.	1.5	36
18	Low back pain associated with lumbar disc herniation: role of moderately degenerative disc and annulus fibrous tears. International Journal of Clinical and Experimental Medicine, 2015, 8, 1634-44.	1.3	33

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19	RNA binding protein HuR regulates extracellular matrix gene expression and pH homeostasis independent of controlling HIF-1Î± signaling in nucleus pulposus cells. Matrix Biology, 2019, 77, 23-40.	1.5	32
20	Interplay among pain intensity, sleep disturbance and emotion in patients with non-specific low back pain. PeerJ, 2017, 5, e3282.	0.9	31
21	MMP2 promoter polymorphism (Câ€1306T) and risk of recurrence in patients with hepatocellular carcinoma after transplantation. Clinical Genetics, 2008, 73, 273-278.	1.0	29
22	TGF-Î²1 antagonizes TNF-Î±induced up-regulation of matrix metalloproteinase 3 in nucleus pulposus cells: role of the ERK1/2 pathway. Connective Tissue Research, 2015, 56, 461-468.	1.1	29
23	An International Multicenter Study Assessing the Role of Ethnicity on Variation of Lumbar Facet Joint Orientation and the Occurrence of Degenerative Spondylolisthesis in Asia Pacific: A Study from the AOSpine Asia Pacific Research Collaboration Consortium. Global Spine Journal, 2016, 6, 35-45.	1.2	26
24	TNF-Î±and TGF-Î²1 regulate Syndecan-4 expression in nucleus pulposus cells: role of the mitogen-activated protein kinase and NF-Î°B pathways. Connective Tissue Research, 2015, 56, 281-287.	1.1	25
25	Tenascin-C-mediated suppression of extracellular matrix adhesion force promotes entheseal new bone formation through activation of Hippo signalling in ankylosing spondylitis. Annals of the Rheumatic Diseases, 2021, 80, 891-902.	0.5	24
26	Is lumbar facet joint tropism developmental or secondary to degeneration? An international, large-scale multicenter study by the AOSpine Asia Pacific Research Collaboration Consortium. Scoliosis and Spinal Disorders, 2016, 11, 9.	2.3	23
27	Grem1 accelerates nucleus pulposus cell apoptosis and intervertebral disc degeneration by inhibiting TGF-Î²-mediated Smad2/3 phosphorylation. Experimental and Molecular Medicine, 2022, 54, 518-530.	3.2	23
28	LIM Mineralization Protein-1 Enhances Bone Morphogenetic Protein-2â€“Mediated Osteogenesis Through Activation of ERK1/2 MAPK Pathway and Upregulation of Runx2 Transactivity. Journal of Bone and Mineral Research, 2015, 30, 1523-1535.	3.1	22
29	Wnt4 signaling mediates protective effects of melatonin on new bone formation in an inflammatory environment. FASEB Journal, 2019, 33, 10126-10139.	0.2	22
30	Aberrant upregulation of CaSR promotes pathological new bone formation in ankylosing spondylitis. EMBO Molecular Medicine, 2020, 12, e12109.	3.3	22
31	Risk Factors Associated with Pain Severity in Patients with Non-specific Low Back Pain in Southern China. Asian Spine Journal, 2018, 12, 533-543.	0.8	20
32	Therapeutic effects analysis of percutaneous kyphoplasty for osteoporotic vertebral compression fractures: A multicentre study. Journal of Orthopaedic Translation, 2017, 11, 73-77.	1.9	18
33	Comparison of the use of rhBMP-7 versus iliac crest autograft in single-level lumbar fusion: a meta-analysis of randomized controlled trials. Journal of Bone and Mineral Metabolism, 2018, 36, 119-127.	1.3	17
34	Visfatin promotes intervertebral disc degeneration by inducing IL-6 expression through the ERK/JNK/p38 signalling pathways. Adipocyte, 2021, 10, 201-215.	1.3	16
35	Comparison of unilateral versus bilateral pedicle screw fixation in lumbar interbody fusion: a meta-analysis. European Spine Journal, 2014, 23, 395-403.	1.0	15
36	CXCL12/CXCR4-Rac1â€“mediated migration of osteogenic precursor cells contributes to pathological new bone formation in ankylosing spondylitis. Science Advances, 2022, 8, eabl8054.	4.7	14

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37	Alarmins S100A8/A9 promote intervertebral disc degeneration and inflammation-related pain in a rat model through toll-like receptor-4 and activation of the NF-ÎºB signaling pathway. Osteoarthritis and Cartilage, 2022, 30, 998-1011.	0.6	12
38	Hypoxia suppresses serum deprivation-induced degradation of the nucleus pulposus cell extracellular matrix through the JNK and NF-ÎºB pathways. Journal of Orthopaedic Research, 2017, 35, 2059-2066.	1.2	9
39	Role of SHOX2 in the development of intervertebral disc degeneration. Journal of Orthopaedic Research, 2017, 35, 1047-1057.	1.2	8
40	Growth differentiation factorâ€6 attenuates inflammatory and painâ€related factors and degenerated discâ€induced pain behaviors in rat model. Journal of Orthopaedic Research, 2021, 39, 959-970.	1.2	8
41	TNFâ€Î± suppresses SHOX2 expression via NFâ€ÎºB signaling pathway and promotes intervertebral disc degeneration and related pain in a rat model. Journal of Orthopaedic Research, 2020, 39, 1745-1754.	1.2	7
42	Correlation study of radiographic characteristics and operative difficulty in lateralâ€“anterior lumbar interbody fusion (LaLIF) at the L4-5 level: a novel classification for case selection. European Spine Journal, 2021, 30, 97-107.	1.0	5
43	Comparison study of clinical outcomes and sagittal alignment improvement between anterior and posterior fusion techniques for multilevel cervical spondylotic myelopathy. Journal of Orthopaedic Surgery, 2021, 29, 230949902098817.	0.4	5
44	Circular RNA hsa_circ_0083756 promotes intervertebral disc degeneration by sponging miRâ€558 and regulating TREM1 expression. Cell Proliferation, 2022, 55, e13205.	2.4	5
45	Perioperative Complications in 255 Patients Who Underwent Lateral Anterior Lumbar Interbody Fusion (LaLIF) Surgery. European Spine Journal, 2021, 30, 2311-2322.	1.0	3
46	Learning-based fully automated prediction of lumbar disc degeneration progression with specified clinical parameters and preliminary validation. European Spine Journal, 2022, 31, 1960-1968.	1.0	3
47	Paraoxonase 1 Was Negatively Associated With Intervertebral Disc Degeneration. Spine, 2019, 44, E1053-E1062.	1.0	2
48	Matching correction of main and compensatory curves is critical for immediate postoperative coronal balance in correction of severe adult idiopathic scoliosis. European Spine Journal, 2021, 30, 3233-3242.	1.0	2
49	Risk of New Vertebral Fracture and Combination Therapy with Zoledronic Acid and Teriparatide in Diabetic Patients after Percutaneous Kyphoplasty. Asian Spine Journal, 2021, 15, 611-617.	0.8	2
50	Answer to the Letter to the Editor of Guoping Liao et al. concerning â€œComparison of unilateral versus bilateral pedicle screw fixation in lumbar interbody fusion: a meta-analysisâ€•by W. Ding et al. (2014) Eur Spine J 23(2):395â€“403. European Spine Journal, 2015, 24, 2358-2358.	1.0	0