

Dewei Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

103
papers

4,432
citations

218592

26
h-index

114418

63
g-index

111
all docs

111
docs citations

111
times ranked

4258
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental study of a 3D printed permanent implantable porous Ta-coated bone plate for fracture fixation. <i>Bioactive Materials</i> , 2022, 10, 269-280.	8.6	19
2	Soluble epoxide hydrolase inhibitor can protect the femoral head against tobacco smoke exposure-induced osteonecrosis in spontaneously hypertensive rats. <i>Toxicology</i> , 2022, 465, 153045.	2.0	2
3	The Significance of Evaluating the Femoral Head Blood Supply after Femoral Neck Fracture: A New Classification for Femoral Neck Fractures. <i>Orthopaedic Surgery</i> , 2022, 14, 742-749.	0.7	4
4	Relationship Between Blood Flow and Collapse of Nontraumatic Osteonecrosis of the Femoral Head. <i>Journal of Bone and Joint Surgery - Series A</i> , 2022, 104, 13-18.	1.4	4
5	Revealing the mechanisms of Weishi Huogu I capsules used for treating osteonecrosis of the femoral head based on systems pharmacology with one mechanism validated with in vitro experiments. <i>Journal of Ethnopharmacology</i> , 2022, , 115354.	2.0	3
6	ARCO Consensus on the Pathogenesis of Non-traumatic Osteonecrosis of the Femoral Head. <i>Journal of Korean Medical Science</i> , 2021, 36, e65.	1.1	46
7	Osteonecrosis of the Femoral Head: an Updated Review of ARCO on Pathogenesis, Staging and Treatment. <i>Journal of Korean Medical Science</i> , 2021, 36, e177.	1.1	64
8	Joint disease-specificity at the regulatory base-pair level. <i>Nature Communications</i> , 2021, 12, 4161.	5.8	18
9	Bone screws of porous silicon carbide coated with tantalum improve osseointegration and osteogenesis in goat femoral neck fractures. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 055013.	1.7	3
10	Transcriptome landscape of the late-stage alcohol-induced osteonecrosis of the human femoral head. <i>Bone</i> , 2021, 150, 116012.	1.4	4
11	Immobilization of bioactive vascular endothelial growth factor onto Ca-deficient hydroxyapatite-coated Mg by covalent bonding using polydopamine. <i>Journal of Orthopaedic Translation</i> , 2021, 30, 82-92.	1.9	25
12	Porous tantalum-composited gelatin nanoparticles hydrogel integrated with mesenchymal stem cell-derived endothelial cells to construct vascularized tissue <i>in vivo</i> . <i>International Journal of Energy Production and Management</i> , 2021, 8, rbab051.	1.9	13
13	Clinical Application of the Musculoperiosteal Iliac Flap for Osteonecrosis of the Femoral Head. <i>Annals of Plastic Surgery</i> , 2021, Publish Ahead of Print, e129-e136.	0.5	1
14	Diagnosis and Treatment of Femoral Head Osteonecrosis: A Protocol for Development of Evidence-Based Clinical Practice Guidelines. <i>Surgical Technology International</i> , 2021, 38, 371-378.	0.1	0
15	Materials evolution of bone plates for internal fixation of bone fractures: A review. <i>Journal of Materials Science and Technology</i> , 2020, 36, 190-208.	5.6	133
16	Basic fibroblast growth factor and agarose gel promote the ability of immune privilege of allogeneic cartilage transplantation in rats. <i>Journal of Orthopaedic Translation</i> , 2020, 22, 73-80.	1.9	13
17	Characterization of the structure and diffusion behavior of calcium alginate gel beads. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48923.	1.3	25
18	Porous silicon carbide coated with tantalum as potential material for bone implants. <i>International Journal of Energy Production and Management</i> , 2020, 7, 453-459.	1.9	17

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19	Mechanical performance and biocompatibility assessment of $Zn-0.05wt\%Mg-(0.5, 1\ wt\%)Ag$ alloys. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 2925-2936.	1.6	9
20	Bone marrow mesenchymal stem cell-derived exosomes promote plasminogen activator inhibitor 1 expression in vascular cells in the local microenvironment during rabbit osteonecrosis of the femoral head. Stem Cell Research and Therapy, 2020, 11, 480.	2.4	21
21	Differential lung inflammation and injury with tobacco smoke exposure in Wistar Kyoto and spontaneously hypertensive rats. Inhalation Toxicology, 2020, 32, 328-341.	0.8	1
22	Crocic promotes osteogenesis differentiation of bone marrow mesenchymal stem cells. In Vitro Cellular and Developmental Biology - Animal, 2020, 56, 680-688.	0.7	9
23	3D Printed Personalized Guide Plate in the Femoral Head Core Decompression. BioMed Research International, 2020, 2020, 1-5.	0.9	2
24	The Development of Microsurgery in China. Annals of Plastic Surgery, 2020, 84, S161-S164.	0.5	1
25	Clinical Follow-up Study of the Reconstruction of the Femoral Head With Transferred Vascularized Greater Trochanter Bone Graft for Association Research Circulation Osseous III-IV Osteonecrosis of the Femoral Head. Annals of Plastic Surgery, 2020, 84, S215-S221.	0.5	5
26	Proper mechanical stress promotes femoral head recovery from steroid-induced osteonecrosis in rats through the OPG/RANK/RANKL system. BMC Musculoskeletal Disorders, 2020, 21, 281.	0.8	11
27	Cepharanthine attenuates cerebral ischemia/reperfusion injury by reducing NLRP3 inflammasome-induced inflammation and oxidative stress via inhibiting 12/15-LOX signaling. Biomedicine and Pharmacotherapy, 2020, 127, 110151.	2.5	43
28	Application of biomaterials for the repair and treatment of osteonecrosis of the femoral head. International Journal of Energy Production and Management, 2020, 7, 1-8.	1.9	25
29	A Ca-deficient hydroxyapatite (CDHA)/MgF ₂ bi-layer coating with unique nano-scale topography on biodegradable high-purity Mg. Colloids and Surfaces B: Biointerfaces, 2020, 190, 110911.	2.5	10
30	Guidelines for clinical diagnosis and treatment of osteonecrosis of the femoral head in adults (2019) Tj ETQqO 0 0 rgBT /Overlock 10 Tf 5	1.9	182
31	Corrosion Resistance and Biocompatibility Assessment of a Biodegradable Hydrothermal-Coated Mg-Zn-Ca Alloy: An in Vitro and in Vivo Study. ACS Omega, 2020, 5, 4548-4557.	1.6	15
32	Structural characterization of a safflower polysaccharide and its promotion effect on steroid-induced osteonecrosis in vivo. Carbohydrate Polymers, 2020, 233, 115856.	5.1	18
33	High-purity weight-bearing magnesium screw: Translational application in the healing of femoral neck fracture. Biomaterials, 2020, 238, 119829.	5.7	57
34	Gallium ions promote osteoinduction of human and mouse osteoblasts via the TRPM7/Akt signaling pathway. Molecular Medicine Reports, 2020, 22, 2741-2752.	1.1	7
35	Digital Subtraction Angiography and Magnetic Resonance Imaging-Based Staging of Circulatory Obstruction in the Femoral Head During Osteonecrosis of the Femoral Head Development. Annals of Plastic Surgery, 2020, 85, 677-684.	0.5	6
36	Early diagnosis and treatment of steroid-induced osteonecrosis of the femoral head. International Orthopaedics, 2019, 43, 1083-1087.	0.9	41

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37	In vitro and in vivo studies on the biodegradable behavior and bone response of Mg ₆₉ Zn ₂₇ Ca ₄ metal glass for treatment of bone defect. <i>Journal of Materials Science and Technology</i> , 2019, 35, 2254-2262.	5.6	11
38	Effect of porous tantalum on promoting the osteogenic differentiation of bone marrow mesenchymal stem cells in vitro through the MAPK/ERK signal pathway. <i>Journal of Orthopaedic Translation</i> , 2019, 19, 81-93.	1.9	27
39	Two types of polyelectrolyte multilayers hydrogel membrane based on chitosan and alginate with different self-assembled process for control L929 cell behavior. <i>International Journal of Biological Macromolecules</i> , 2019, 140, 1134-1146.	3.6	8
40	Treatment of trauma-induced femoral head necrosis with biodegradable pure Mg screw-fixed pedicle iliac bone flap. <i>Journal of Orthopaedic Translation</i> , 2019, 17, 133-137.	1.9	14
41	Mesenchymal stem cell-loaded porous tantalum integrated with biomimetic 3D collagen-based scaffold to repair large osteochondral defects in goats. <i>Stem Cell Research and Therapy</i> , 2019, 10, 72.	2.4	48
42	SIRT1 inhibits apoptosis in in vivo and in vitro models of spinal cord injury via microRNA-494. <i>International Journal of Molecular Medicine</i> , 2019, 43, 1758-1768.	1.8	20
43	TGF- β 1 promotes the osteoinduction of human osteoblasts via the PI3K/AKT/mTOR/S6K1 signalling pathway. <i>Molecular Medicine Reports</i> , 2019, 19, 3505-3518.	1.1	43
44	Retrospective Long-Term Follow-Up Survival Analysis of the Management of Osteonecrosis of the Femoral Head With Pedicled Vascularized Iliac Bone Graft Transfer. <i>Journal of Arthroplasty</i> , 2019, 34, 1585-1592.	1.5	22
45	Bevacizumab Combined With Oxaliplatin/Capecitabine in Patient With Refractory and Recurrent Mucinous Adenocarcinoma of the Appendix: A Case Report. <i>Frontiers in Oncology</i> , 2019, 9, 55.	1.3	7
46	An exploratory study of articular cartilage and subchondral bone reconstruction with bone marrow mesenchymal stem cells combined with porous tantalum/Bio-Gide collagen membrane in osteonecrosis of the femoral head. <i>Materials Science and Engineering C</i> , 2019, 99, 1123-1132.	3.8	22
47	Vascularized Greater Trochanter Bone Flap Transfer for Treatment of ARCO Stage-II B to II B Osteonecrosis of the Femoral Head. <i>JBJS Essential Surgical Techniques</i> , 2019, 9, e20.	0.3	4
48	Vascularized Iliac Bone Flap Transfer for Early and Middle Stages of Osteonecrosis of the Femoral Head. <i>JBJS Essential Surgical Techniques</i> , 2019, 9, e5.	0.3	8
49	Beneficial contribution of a safflower (<i>Carthamus tinctorius</i> L.) polysaccharide on steroid-induced avascular necrosis of the femoral head in rats. <i>International Journal of Biological Macromolecules</i> , 2019, 123, 581-586.	3.6	10
50	Study of engineered low-modulus Mg/PLLA composites as potential orthopaedic implants: An in vitro and in vivo study. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 174, 280-290.	2.5	19
51	Evaluating the Blood Supply of the Femoral Head During Different Stages of Necrosis Using Digital Subtraction Angiography. <i>Orthopedics</i> , 2019, 42, e210-e215.	0.5	8
52	The Combined Therapy of Tantalum Rod Implantation and Vascularized Bone Transplantation for Femoral Head Osteonecrosis: A Retrospective Long-Term Follow-Up Survival Analysis. <i>Surgical Technology International</i> , 2019, 35, 406-409.	0.1	1
53	An anthropometric study of distal tibiofibular syndesmosis (DTS) in a Chinese population. <i>Journal of Orthopaedic Surgery and Research</i> , 2018, 13, 95.	0.9	5
54	Safflower (<i>Carthamus tinctorius</i> L.) polysaccharide attenuates cellular apoptosis in steroid-induced avascular necrosis of femoral head by targeting caspase-3-dependent signaling pathway. <i>International Journal of Biological Macromolecules</i> , 2018, 116, 106-112.	3.6	22

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55	<i>In vitro</i> and <i>in vivo</i> studies on degradation and bone response of Mg-Sr alloy for treatment of bone defect. <i>Materials Technology</i> , 2018, 33, 387-397.	1.5	25
56	Pedicle iliac crest bone flap transfer for the treatment of upper femoral shaft fracture nonunion: An anatomic study and clinical applications. <i>Microsurgery</i> , 2018, 38, 882-888.	0.6	1
57	Exposure to tobacco smoke increases bone loss in spontaneously hypertensive rats. <i>Inhalation Toxicology</i> , 2018, 30, 229-238.	0.8	2
58	Calcium and Vitamin D Supplements and Fractures in Community-Dwelling Adults. <i>JAMA - Journal of the American Medical Association</i> , 2018, 319, 2043.	3.8	0
59	Assessment of the degradation rates and effectiveness of different coated Mg-Zn-Ca alloy scaffolds for in vivo repair of critical-size bone defects. <i>Journal of Materials Science: Materials in Medicine</i> , 2018, 29, 138.	1.7	29
60	Transcriptome sequencing analysis reveals the effect of combinative treatment with low-intensity pulsed ultrasound and magnesium ions on hFOB1.19 human osteoblast cells. <i>Molecular Medicine Reports</i> , 2018, 18, 749-762.	1.1	7
61	Protective effects of Nebivolol against interleukin-1 β (IL-1 β)-induced type II collagen destruction mediated by matrix metalloproteinase-13 (MMP-13). <i>Cell Stress and Chaperones</i> , 2017, 22, 767-774.	1.2	19
62	Omentin-1 prevents cartilage matrix destruction by regulating matrix metalloproteinases. <i>Biomedicine and Pharmacotherapy</i> , 2017, 92, 265-269.	2.5	26
63	Increased Six1 expression is associated with poor prognosis in patients with osteosarcoma. <i>Oncology Letters</i> , 2017, 13, 2891-2896.	0.8	12
64	Epiphyseal Arterial Network and Inferior Retinacular Artery Seem Critical to Femoral Head Perfusion in Adults With Femoral Neck Fractures. <i>Clinical Orthopaedics and Related Research</i> , 2017, 475, 2011-2023.	0.7	58
65	Clinical effect of hyperbaric oxygen therapy in the treatment of femoral head necrosis. <i>Der Orthopade</i> , 2017, 46, 440-446.	0.7	18
66	Ion channel functional protein kinase TRPM7 regulates Mg ions to promote the osteoinduction of human osteoblast via PI3K pathway: In vitro simulation of the bone-repairing effect of Mg-based alloy implant. <i>Acta Biomaterialia</i> , 2017, 63, 369-382.	4.1	115
67	Management of osteonecrosis of the femoral head with pedicle iliac bone flap transfer: A multicenter study of 2190 patients. <i>Microsurgery</i> , 2017, 37, 896-901.	0.6	29
68	Current status on clinical applications of magnesium-based orthopaedic implants: A review from clinical translational perspective. <i>Biomaterials</i> , 2017, 112, 287-302.	5.7	674
69	Efficacy of Core Decompression for Treatment of Canine Femoral Head Osteonecrosis Induced by Arterial Ischaemia and Venous Congestion. <i>HIP International</i> , 2017, 27, 406-411.	0.9	4
70	Combined Treatment with an Anticoagulant and a Vasodilator Prevents Steroid-Associated Osteonecrosis of Rabbit Femoral Heads by Improving Hypercoagulability. <i>BioMed Research International</i> , 2017, 2017, 1-10.	0.9	16
71	Dramatic response of CTNNB1 and VEGFR-2 mutant temporal bone squamous cell carcinoma to bevacizumab in combination with pemetrexed. <i>Oncotarget</i> , 2017, 8, 57898-57904.	0.8	2
72	An epidemiological study of etiology and clinical characteristics in patients with nontraumatic osteonecrosis of the femoral head. <i>Journal of Research in Medical Sciences</i> , 2017, 22, 15.	0.4	54

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73	Hemodynamic changes in osteonecrosis treatment of the femoral head with iliac bone flaps pedicled with the lateral femoral circumflex artery ascending branch: A 10-year report. <i>Technology and Health Care</i> , 2016, 24, S493-S498.	0.5	4
74	Revascularization of the femoral head by anastomosis of superior retinacular vessels for the treatment of femoral neck fracture: A case report. <i>Microsurgery</i> , 2016, 36, 426-429.	0.6	8
75	Implant-derived magnesium induces local neuronal production of CGRP to improve bone-fracture healing in rats. <i>Nature Medicine</i> , 2016, 22, 1160-1169.	15.2	666
76	Carvedilol suppresses cartilage matrix destruction. <i>Biochemical and Biophysical Research Communications</i> , 2016, 480, 309-313.	1.0	5
77	A novel Tantalum coating on porous SiC used for bone filling material. <i>Materials Letters</i> , 2016, 179, 166-169.	1.3	16
78	Vascularized bone grafting fixed by biodegradable magnesium screw for treating osteonecrosis of the femoral head. <i>Biomaterials</i> , 2016, 81, 84-92.	5.7	245
79	Tantalum coating of porous carbon scaffold supplemented with autologous bone marrow stromal stem cells for bone regeneration <i>in vitro</i> and <i>in vivo</i> . <i>Experimental Biology and Medicine</i> , 2016, 241, 592-602.	1.1	31
80	Chemotherapy effectively suppresses interleukin-20, receptor activator of nuclear factor kappa-B ligand, and osteoprotegerin levels in patients with lung adenocarcinoma and bone metastasis. <i>Journal of Cancer Research and Therapeutics</i> , 2016, 12, 963.	0.3	3
81	An insertion/deletion polymorphism at the microRNA-122 binding site in the interleukin-1 β 3' untranslated region is associated with a risk for osteoarthritis. <i>Molecular Medicine Reports</i> , 2015, 12, 6199-6206.	1.1	11
82	Biodegradable magnesium screws and vascularized iliac grafting for displaced femoral neck fracture in young adults. <i>BMC Musculoskeletal Disorders</i> , 2015, 16, 329.	0.8	42
83	Prevalence of Nontraumatic Osteonecrosis of the Femoral Head and its Associated Risk Factors in the Chinese Population. <i>Chinese Medical Journal</i> , 2015, 128, 2843-2850.	0.9	204
84	Autologous Bone Marrow Mesenchymal Stem Cells Associated with Tantalum Rod Implantation and Vascularized Iliac Grafting for the Treatment of End-Stage Osteonecrosis of the Femoral Head. <i>BioMed Research International</i> , 2015, 2015, 1-9.	0.9	37
85	Recommendation for modifying current cytotoxicity testing standards for biodegradable magnesium-based materials. <i>Acta Biomaterialia</i> , 2015, 21, 237-249.	4.1	338
86	Effect of semisynthetic extracellular matrix-like hydrogel containing hepatocyte growth factor on repair of femoral neck defect in rabbits. <i>International Journal of Clinical and Experimental Medicine</i> , 2015, 8, 7374-80.	1.3	3
87	Analysis of factors affecting the prognosis of neonatal cholestasis. <i>International Journal of Clinical and Experimental Medicine</i> , 2015, 8, 8005-9.	1.3	2
88	Improved vacuum sealing drainage in the treatment of gas gangrene: a case report. <i>International Journal of Clinical and Experimental Medicine</i> , 2015, 8, 19626-8.	1.3	0
89	Jolkinolide B inhibits RANKL-induced osteoclastogenesis by suppressing the activation NF- κ B and MAPK signaling pathways. <i>Biochemical and Biophysical Research Communications</i> , 2014, 445, 282-288.	1.0	28
90	ABCB1 Gene Polymorphisms and Glucocorticoid-Induced Avascular Necrosis of the Femoral Head Susceptibility: A Meta-Analysis. <i>Medical Science Monitor</i> , 2014, 20, 2811-2816.	0.5	14

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91	New approach to the treatment of adolescent hip dysplasia. <i>Medical Hypotheses</i> , 2013, 81, 122-124.	0.8	2
92	Treatment of osteonecrosis of the femoral head by using the greater trochanteric bone flap with double vascular pedicles. <i>Microsurgery</i> , 2013, 33, 593-599.	0.6	23
93	Digital subtraction angiography in selection of the vascularized greater trochanter bone grafting for treatment of osteonecrosis of femoral head. <i>Microsurgery</i> , 2013, 33, 656-659.	0.6	31
94	Introduction: Microsurgery in China. <i>Microsurgery</i> , 2013, 33, 591-592.	0.6	2
95	Tantalum Rod Implantation and Vascularized Iliac Grafting for Osteonecrosis of the Femoral Head. <i>Orthopedics</i> , 2013, 36, 789-795.	0.5	39
96	Vascularized the greater trochanter grafting treatment cysts of the femoral neck. <i>Medical Hypotheses</i> , 2012, 79, 5-7.	0.8	2
97	Treatment of early stage osteonecrosis of the femoral head with autologous implantation of bone marrow-derived and cultured mesenchymal stem cells. <i>Bone</i> , 2012, 50, 325-330.	1.4	301
98	Combined vascularized iliac and greater trochanter graftings for reconstruction of the osteonecrosis femoral head with collapse: Reports of three cases with 20 years follow-up. <i>Microsurgery</i> , 2012, 32, 546-551.	0.6	22
99	Will a Vascularized Greater Trochanter Graft Preserve the Necrotic Femoral Head?. <i>Clinical Orthopaedics and Related Research</i> , 2010, 468, 1316-1324.	0.7	39
100	Computer-Aided Modeling and Morphological Analysis of Hip Joint. , 2007, , .		2
101	Iliac Graft Vascularization for Femoral Head Osteonecrosis. <i>Clinical Orthopaedics and Related Research</i> , 2006, 442, 171-179.	0.7	58
102	Diagnosis and Treatment of Femoral Head Osteonecrosis: A Protocol for Development of Evidence-Based Clinical Practice Guidelines. <i>Surgical Technology International</i> , 0, , .	0.1	0
103	A New Method to Protect Blood Supply in the Treatment of Femoral Neck Fractures: Bidirectional Compression Porous Tantalum Screws. <i>Orthopaedic Surgery</i> , 0, , .	0.7	2