

## List of Publications by Year in descending order

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497  
papers

22,363  
citations

10373

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527  
docs citations

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times ranked

19579  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	In vitro and in vivo studies on a Mg-Sr binary alloy system developed as a new kind of biodegradable metal. <i>Acta Biomaterialia</i> , 2012, 8, 2360-2374.	4.1	384
4	A delivery system targeting bone formation surfaces to facilitate RNAi-based anabolic therapy. <i>Nature Medicine</i> , 2012, 18, 307-314.	15.2	354
5	Osteogenic magnesium incorporated into PLGA/TCP porous scaffold by 3D printing for repairing challenging bone defect. <i>Biomaterials</i> , 2019, 197, 207-219.	5.7	348
6	Recommendation for modifying current cytotoxicity testing standards for biodegradable magnesium-based materials. <i>Acta Biomaterialia</i> , 2015, 21, 237-249.	4.1	338
7	Progress of biodegradable metals. <i>Progress in Natural Science: Materials International</i> , 2014, 24, 414-422.	1.8	317
8	Recent developments and challenges of lower extremity exoskeletons. <i>Journal of Orthopaedic Translation</i> , 2016, 5, 26-37.	1.9	308
9	Development of biodegradable Zn-1X binary alloys with nutrient alloying elements Mg, Ca and Sr. <i>Scientific Reports</i> , 2015, 5, 10719.	1.6	278
10	Bone defect animal models for testing efficacy of bone substitute biomaterials. <i>Journal of Orthopaedic Translation</i> , 2015, 3, 95-104.	1.9	269
11	Biodegradable Magnesium-Based Implants in Orthopedics—A General Review and Perspectives. <i>Advanced Science</i> , 2020, 7, 1902443.	5.6	267
12	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
13	Epimedium-Derived Phytoestrogen Flavonoids Exert Beneficial Effect on Preventing Bone Loss in Late Postmenopausal Women: A 24-Month Randomized, Double-Blind and Placebo-Controlled Trial. <i>Journal of Bone and Mineral Research</i> , 2007, 22, 1072-1079.	3.1	222
14	Porous composite scaffold incorporating osteogenic phytomolecule icariin for promoting skeletal regeneration in challenging osteonecrotic bone in rabbits. <i>Biomaterials</i> , 2018, 153, 1-13.	5.7	199
15	Characterization of the molecular pharmacology of AMD3100: A specific antagonist of the G-protein coupled chemokine receptor, CXCR4. <i>Biochemical Pharmacology</i> , 2006, 72, 588-596.	2.0	192
16	Single cell transcriptomics identifies a unique adipose lineage cell population that regulates bone marrow environment. <i>ELife</i> , 2020, 9, .	2.8	191
17	Reciprocal inhibition of YAP/TAZ and NF- $\kappa$ B regulates osteoarthritic cartilage degradation. <i>Nature Communications</i> , 2018, 9, 4564.	5.8	188
18	Cartilage regeneration using mesenchymal stem cells and a PLGA-gelatin/chondroitin/hyaluronate hybrid scaffold. <i>Biomaterials</i> , 2006, 27, 4573-4580.	5.7	187

#	ARTICLE	IF	CITATIONS
19	Effects of basic fibroblast growth factor (bFGF) on early stages of tendon healing: A rat patellar tendon model. <i>Acta Orthopaedica</i> , 2000, 71, 513-518.	1.4	186
20	Surface modification of magnesium alloys developed for bioabsorbable orthopedic implants: A general review. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012, 100B, 1691-1701.	1.6	183
21	Guidelines for clinical diagnosis and treatment of osteonecrosis of the femoral head in adults (2019) <i>Tj ETQq1 1 0.784314 rgBT /Over</i>	1.9	182
22	A randomized, prospective study of the effects of Tai Chi Chun exercise on bone mineral density in postmenopausal women 11No commercial party having a direct financial interest in the results of the research supporting this article has or will confer a benefit upon the author(s) or upon any organization with which the author(s) is/are associated.. <i>Archives of Physical Medicine and Rehabilitation</i> , 2004, 85, 717-722.	0.5	179
23	Dynamic and Cell-Infiltratable Hydrogels as Injectable Carrier of Therapeutic Cells and Drugs for Treating Challenging Bone Defects. <i>ACS Central Science</i> , 2019, 5, 440-450.	5.3	166
24	Generalized Low Areal and Volumetric Bone Mineral Density in Adolescent Idiopathic Scoliosis. <i>Journal of Bone and Mineral Research</i> , 2000, 15, 1587-1595.	3.1	165
25	Impaired bone healing pattern in mice with ovariectomy-induced osteoporosis: A drill-hole defect model. <i>Bone</i> , 2011, 48, 1388-1400.	1.4	163
26	Surface-enrichment with hydroxyapatite nanoparticles in stereolithography-fabricated composite polymer scaffolds promotes bone repair. <i>Acta Biomaterialia</i> , 2017, 54, 386-398.	4.1	151
27	In vitro and in vivo studies on biodegradable CaMgZnSrYb high-entropy bulk metallic glass. <i>Acta Biomaterialia</i> , 2013, 9, 8561-8573.	4.1	149
28	High-Frequency Whole-Body Vibration Improves Balancing Ability in Elderly Women. <i>Archives of Physical Medicine and Rehabilitation</i> , 2007, 88, 852-857.	0.5	145
29	Changes of microstructure and mineralized tissue in the middle and late phase of osteoporotic fracture healing in rats. <i>Bone</i> , 2007, 41, 631-638.	1.4	142
30	Dual-functional 3D-printed composite scaffold for inhibiting bacterial infection and promoting bone regeneration in infected bone defect models. <i>Acta Biomaterialia</i> , 2018, 79, 265-275.	4.1	134
31	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
32	A novel semisynthesized small molecule icaritin reduces incidence of steroid-associated osteonecrosis with inhibition of both thrombosis and lipid-deposition in a dose-dependent manner. <i>Bone</i> , 2009, 44, 345-356.	1.4	132
33	Biology and augmentation of tendon-bone insertion repair. <i>Journal of Orthopaedic Surgery and Research</i> , 2010, 5, 59.	0.9	132
34	Biodegradable CaMgZn bulk metallic glass for potential skeletal application. <i>Acta Biomaterialia</i> , 2011, 7, 3196-3208.	4.1	128
35	Anti-infective efficacy, cytocompatibility and biocompatibility of a 3D-printed osteoconductive composite scaffold functionalized with quaternized chitosan. <i>Acta Biomaterialia</i> , 2016, 46, 112-128.	4.1	128
36	Flavonoids derived from herbal <i>Epimedium Brevicornum Maxim</i> prevent OVX-induced osteoporosis in rats independent of its enhancement in intestinal calcium absorption. <i>Bone</i> , 2006, 38, 818-825.	1.4	126

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37	Yap1 Regulates Multiple Steps of Chondrocyte Differentiation during Skeletal Development and Bone Repair. <i>Cell Reports</i> , 2016, 14, 2224-2237.	2.9	126
38	Low-magnitude high-frequency vibration treatment augments fracture healing in ovariectomy-induced osteoporotic bone. <i>Bone</i> , 2010, 46, 1299-1305.	1.4	114
39	Multiple bioimaging modalities in evaluation of an experimental osteonecrosis induced by a combination of lipopolysaccharide and methylprednisolone. <i>Bone</i> , 2006, 39, 863-871.	1.4	106
40	Low-Intensity Pulsed Ultrasound Accelerated Bone-Tendon Junction Healing Through Regulation of Vascular Endothelial Growth Factor Expression and Cartilage Formation. <i>Ultrasound in Medicine and Biology</i> , 2008, 34, 1248-1260.	0.7	104
41	Osteopenia. <i>Journal of Bone and Joint Surgery - Series A</i> , 2005, 87, 2709-2716.	1.4	103
42	Association of osteopenia with curve severity in adolescent idiopathic scoliosis: a study of 919 girls. <i>Osteoporosis International</i> , 2005, 16, 1924-1932.	1.3	102
43	Knee exoskeletons for gait rehabilitation and human performance augmentation: A state-of-the-art. <i>Mechanism and Machine Theory</i> , 2019, 134, 499-511.	2.7	101
44	Bone marrow adipogenic lineage precursors promote osteoclastogenesis in bone remodeling and pathologic bone loss. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	101
45	Low-magnitude high-frequency vibration accelerates callus formation, mineralization, and fracture healing in rats. <i>Journal of Orthopaedic Research</i> , 2009, 27, 458-465.	1.2	97
46	SOX9 keeps growth plates and articular cartilage healthy by inhibiting chondrocyte dedifferentiation/osteoblastic redifferentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	96
47	Regular Tai Chi Chuan exercise may retard bone loss in postmenopausal women: A case-control study. <i>Archives of Physical Medicine and Rehabilitation</i> , 2002, 83, 1355-1359.	0.5	95
48	Porous gelatin-chondroitin-hyaluronate tri-copolymer scaffold containing microspheres loaded with TGF- $\beta$ 1 induces differentiation of mesenchymal stem cells in vivo for enhancing cartilage repair. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 77A, 785-794.	2.1	94
49	Corrosion and biocompatibility improvement of magnesium-based alloys as bone implant materials: a review. <i>International Journal of Energy Production and Management</i> , 2017, 4, 129-137.	1.9	94
50	Beneficial effects of regular Tai Chi exercise on musculoskeletal system. <i>Journal of Bone and Mineral Metabolism</i> , 2005, 23, 186-190.	1.3	92
51	Prodrug of green tea epigallocatechin-3-gallate (Pro-EGCG) as a potent anti-angiogenesis agent for endometriosis in mice. <i>Angiogenesis</i> , 2013, 16, 59-69.	3.7	88
52	Suppression of Sclerostin Alleviates Radiation-Induced Bone Loss by Protecting Bone-Forming Cells and Their Progenitors Through Distinct Mechanisms. <i>Journal of Bone and Mineral Research</i> , 2017, 32, 360-372.	3.1	88
53	Generalized Osteopenia in Adolescent Idiopathic Scoliosis—Association With Abnormal Pubertal Growth, Bone Turnover, and Calcium Intake?. <i>Spine</i> , 2006, 31, 330-338.	1.0	87
54	Phytomolecule icaritin incorporated PLGA/TCP scaffold for steroid-associated osteonecrosis: Proof-of-concept for prevention of hip joint collapse in bipedal emus and mechanistic study in quadrupedal rabbits. <i>Biomaterials</i> , 2015, 59, 125-143.	5.7	87

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55	Wnt-mediated endothelial transformation into mesenchymal stem cell-like cells induces chemoresistance in glioblastoma. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	86
56	Gelatin Microspheres Containing TGF- $\beta$ 23 Enhance the Chondrogenesis of Mesenchymal Stem Cells in Modified Pellet Culture. <i>Biomacromolecules</i> , 2008, 9, 927-934.	2.6	85
57	The first multicenter and randomized clinical trial of herbal Fufang for treatment of postmenopausal osteoporosis. <i>Osteoporosis International</i> , 2012, 23, 1317-1327.	1.3	85
58	PLGA/TCP composite scaffold incorporating bioactive phytomolecule icaritin for enhancement of bone defect repair in rabbits. <i>Acta Biomaterialia</i> , 2013, 9, 6711-6722.	4.1	84
59	Metabolites profile of Xian-Ling-Gu-Bao capsule, a traditional Chinese medicine prescription, in rats by ultra performance liquid chromatography coupled with quadrupole time-of-flight tandem mass spectrometry analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 96, 90-103.	1.4	84
60	EGFR signaling is critical for maintaining the superficial layer of articular cartilage and preventing osteoarthritis initiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14360-14365.	3.3	83
61	Targeting cartilage EGFR pathway for osteoarthritis treatment. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	83
62	Generalized low bone mass of girls with adolescent idiopathic scoliosis is related to inadequate calcium intake and weight bearing physical activity in peripubertal period. <i>Osteoporosis International</i> , 2005, 16, 1024-1035.	1.3	82
63	Low-Intensity Pulsed Ultrasound Accelerates Bone-Tendon Junction Healing. <i>American Journal of Sports Medicine</i> , 2006, 34, 1287-1296.	1.9	82
64	Role of mesenchymal stem cells in osteoarthritis treatment. <i>Journal of Orthopaedic Translation</i> , 2017, 9, 89-103.	1.9	82
65	Electrical stimulation prevents immobilization atrophy in skeletal muscle of rabbits. <i>Archives of Physical Medicine and Rehabilitation</i> , 1997, 78, 512-517.	0.5	81
66	Regional variations in microstructural properties of vertebral trabeculae with aging. <i>Journal of Bone and Mineral Metabolism</i> , 2005, 23, 174-180.	1.3	81
67	Magnesium alloy based interference screw developed for ACL reconstruction attenuates peri-tunnel bone loss in rabbits. <i>Biomaterials</i> , 2018, 157, 86-97.	5.7	79
68	Epimedium-derived flavonoids promote osteoblastogenesis and suppress adipogenesis in bone marrow stromal cells while exerting an anabolic effect on osteoporotic bone. <i>Bone</i> , 2009, 45, 534-544.	1.4	78
69	Comparative study of osteoconduction on micromachined and alkali-treated titanium alloy surfaces in vitro and in vivo. <i>Biomaterials</i> , 2005, 26, 1793-1801.	5.7	77
70	PTH1-34 alleviates radiotherapy-induced local bone loss by improving osteoblast and osteocyte survival. <i>Bone</i> , 2014, 67, 33-40.	1.4	77
71	FLASH Proton Radiotherapy Spares Normal Epithelial and Mesenchymal Tissues While Preserving Sarcoma Response. <i>Cancer Research</i> , 2021, 81, 4808-4821.	0.4	77
72	A study of trabecular bones in ovariectomized goats with micro-computed tomography and peripheral quantitative computed tomography. <i>Bone</i> , 2004, 35, 21-26.	1.4	76

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73	Osteopenia in Adolescent Idiopathic Scoliosis. <i>Spine</i> , 2001, 26, C1-C5.	1.0	76
74	Age-associated Decrease of Type IIA/B Human Skeletal Muscle Fibers. <i>Clinical Orthopaedics and Related Research</i> , 2006, 450, 231-237.	0.7	75
75	Steroid-associated osteonecrosis: Epidemiology, pathophysiology, animal model, prevention, and potential treatments (an overview). <i>Journal of Orthopaedic Translation</i> , 2015, 3, 58-70.	1.9	75
76	Effects of Eleven Flavonoids from the Osteoprotective Fraction of <i>Drynaria fortunei</i> (KUNZE) J. SM. on Osteoblastic Proliferation Using an Osteoblast-Like Cell Line. <i>Chemical and Pharmaceutical Bulletin</i> , 2008, 56, 46-51.	0.6	74
77	Wnt16 attenuates osteoarthritis progression through a PCP/JNK-mTORC1-PTHrP cascade. <i>Annals of the Rheumatic Diseases</i> , 2019, 78, 551-561.	0.5	74
78	pQCT bone strength index may serve as a better predictor than bone mineral density for long bone breaking strength. <i>Journal of Bone and Mineral Metabolism</i> , 2003, 21, 316-322.	1.3	73
79	Reduced Bone Perfusion in Osteoporosis: Likely Causes in an Ovariectomy Rat Model. <i>Radiology</i> , 2010, 254, 739-746.	3.6	73
80	Low Intensity Pulsed Ultrasound Enhanced Mesenchymal Stem Cell Recruitment through Stromal Derived Factor-1 Signaling in Fracture Healing. <i>PLoS ONE</i> , 2014, 9, e106722.	1.1	73
81	Hybrid fracture fixation systems developed for orthopaedic applications: A general review. <i>Journal of Orthopaedic Translation</i> , 2019, 16, 1-13.	1.9	72
82	Supplementation-time Dependence of Growth Factors in Promoting Tendon Healing. <i>Clinical Orthopaedics and Related Research</i> , 2006, 448, 240-247.	0.7	70
83	Sclerostin monoclonal antibody enhanced bone fracture healing in an open osteotomy model in rats. <i>Journal of Orthopaedic Research</i> , 2014, 32, 997-1005.	1.2	70
84	From the printer: Potential of three-dimensional printing for orthopaedic Applications. <i>Journal of Orthopaedic Translation</i> , 2016, 6, 42-49.	1.9	70
85	Nanoindentation modulus of murine cartilage: a sensitive indicator of the initiation and progression of post-traumatic osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2017, 25, 108-117.	0.6	70
86	Effects of weight bearing and non-weight bearing exercises on bone properties using calcaneal quantitative ultrasound. <i>British Journal of Sports Medicine</i> , 2005, 39, 547-551.	3.1	69
87	Phytoestrogen-rich herb formula "XinLing" prevents OVX-induced deterioration of musculoskeletal tissues at the hip in old rats. <i>Journal of Bone and Mineral Metabolism</i> , 2005, 23, 55-61.	1.3	67
88	A wearable exoskeleton suit for motion assistance to paralysed patients. <i>Journal of Orthopaedic Translation</i> , 2017, 11, 7-18.	1.9	67
89	Cell therapy for the degenerating intervertebral disc. <i>Translational Research</i> , 2017, 181, 49-58.	2.2	67
90	Decorin Regulates the Aggrecan Network Integrity and Biomechanical Functions of Cartilage Extracellular Matrix. <i>ACS Nano</i> , 2019, 13, 11320-11333.	7.3	67

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91	Early changes in cartilage pericellular matrix micromechanobiology portend the onset of post-traumatic osteoarthritis. <i>Acta Biomaterialia</i> , 2020, 111, 267-278.	4.1	65
92	A comparative study of bone to bone repair and bone to tendon healing in patellaâ€“patellar tendon complex in rabbits. <i>Clinical Biomechanics</i> , 2002, 17, 594-602.	0.5	64
93	Repair of Bone Erosion in Rheumatoid Arthritis by Denosumab: A Highâ€“Resolution Peripheral Quantitative Computed Tomography Study. <i>Arthritis Care and Research</i> , 2017, 69, 1156-1163.	1.5	64
94	Comparative study of osteogenic potential of a composite scaffold incorporating either endogenous bone morphogenetic protein-2 or exogenous phytomolecule icaritin: An in vitro efficacy study. <i>Acta Biomaterialia</i> , 2012, 8, 3128-3137.	4.1	63
95	Dose-dependent effect of low-intensity pulsed ultrasound on callus formation during rapid distraction osteogenesis. <i>Journal of Orthopaedic Research</i> , 2006, 24, 2072-2079.	1.2	62
96	Pyridinoline in relation to ultimate stress of the patellar tendon during healing: An animal study. <i>Journal of Orthopaedic Research</i> , 1998, 16, 597-603.	1.2	61
97	Association of FTO With Obesity-Related Traits in the Cebu Longitudinal Health and Nutrition Survey (CLHNS) Cohort. <i>Diabetes</i> , 2008, 57, 1987-1991.	0.3	61
98	Extracorporeal Shock Wave Therapy in Treatment of Delayed Bone-Tendon Healing. <i>American Journal of Sports Medicine</i> , 2008, 36, 340-347.	1.9	61
99	Magnesium and vitamin C supplementation attenuates steroid-associated osteonecrosis in a rat model. <i>Biomaterials</i> , 2020, 238, 119828.	5.7	61
100	Biodegradable magnesium combined with distraction osteogenesis synergistically stimulates bone tissue regeneration via CGRP-FAK-VEGF signaling axis. <i>Biomaterials</i> , 2021, 275, 120984.	5.7	61
101	Low BMD Is a Risk Factor for Low-Energy Colles??? Fractures in Women before and after Menopause. <i>Clinical Orthopaedics and Related Research</i> , 2005, &NA;, 219-225.	0.7	60
102	A bone-targeting delivery system carrying osteogenic phytomolecule icaritin prevents osteoporosis in mice. <i>Biomaterials</i> , 2018, 182, 58-71.	5.7	60
103	Corrosion and biological performance of biodegradable magnesium alloys mediated by low copper addition and processing. <i>Materials Science and Engineering C</i> , 2018, 93, 565-581.	3.8	60
104	Enrichment of CD146<sup>+</sup> Adipose-Derived Stem Cells in Combination with Articular Cartilage Extracellular Matrix Scaffold Promotes Cartilage Regeneration. <i>Theranostics</i> , 2019, 9, 5105-5121.	4.6	60
105	Multifunctional magnesium incorporated scaffolds by 3D-Printing for comprehensive postsurgical management of osteosarcoma. <i>Biomaterials</i> , 2021, 275, 120950.	5.7	60
106	Durable Mesenchymal Stem Cell Labelling by Using Polyhedral Superparamagnetic Iron Oxide Nanoparticles. <i>Chemistry - A European Journal</i> , 2009, 15, 12417-12425.	1.7	59
107	Review of various treatment options and potential therapies for osteonecrosis of the femoral head. <i>Journal of Orthopaedic Translation</i> , 2016, 4, 57-70.	1.9	58
108	In vitro and in vivo degradation behavior of Mgâ€“2Srâ€“Ca and Mgâ€“2Srâ€“Zn alloys. <i>Bioactive Materials</i> , 2020, 5, 275-285.	8.6	58

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109	Low-intensity pulsed ultrasound accelerates osteogenesis at bone-tendon healing junction. <i>Ultrasound in Medicine and Biology</i> , 2006, 32, 1905-1911.	0.7	57
110	Innovative Tissue-Engineered Strategies for Osteochondral Defect Repair and Regeneration: Current Progress and Challenges. <i>Advanced Healthcare Materials</i> , 2020, 9, e2001008.	3.9	57
111	A Relook Into the Association of the Estrogen Receptor $\alpha$ Gene (PvuII, XbaI) and Adolescent Idiopathic Scoliosis. <i>Spine</i> , 2006, 31, 2463-2468.	1.0	56
112	Epimedium-derived phytoestrogen exert beneficial effect on preventing steroid-associated osteonecrosis in rabbits with inhibition of both thrombosis and lipid-deposition. <i>Bone</i> , 2007, 40, 685-692.	1.4	56
113	Low-Intensity Pulsed Ultrasound on Tendon Healing. <i>American Journal of Sports Medicine</i> , 2008, 36, 1742-1749.	1.9	56
114	Grafted Tendon Healing in Tibial Tunnel Is Inferior to Healing in Femoral Tunnel After Anterior Cruciate Ligament Reconstruction: A Histomorphometric Study in Rabbits. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2010, 26, 58-66.	1.3	56
115	Low-magnitude high-frequency vibration (LMHFV) enhances bone remodeling in osteoporotic rat femoral fracture healing. <i>Journal of Orthopaedic Research</i> , 2011, 29, 746-752.	1.2	56
116	Low intensity pulsed ultrasound accelerated bone remodeling during consolidation stage of distraction osteogenesis. <i>Journal of Orthopaedic Research</i> , 2006, 24, 263-270.	1.2	55
117	Low-Intensity Pulsed Ultrasound Accelerated Callus Formation, Angiogenesis and Callus Remodeling in Osteoporotic Fracture Healing. <i>Ultrasound in Medicine and Biology</i> , 2011, 37, 231-238.	0.7	55
118	Effect of whole body vibration (WBV) therapy on bone density and bone quality in osteopenic girls with adolescent idiopathic scoliosis: a randomized, controlled trial. <i>Osteoporosis International</i> , 2013, 24, 1623-1636.	1.3	55
119	Magnesium (Mg) based interference screws developed for promoting tendon graft incorporation in bone tunnel in rabbits. <i>Acta Biomaterialia</i> , 2017, 63, 393-410.	4.1	55
120	An innovative Mg/Ti hybrid fixation system developed for fracture fixation and healing enhancement at load-bearing skeletal site. <i>Biomaterials</i> , 2018, 180, 173-183.	5.7	55
121	Low intensity pulsed ultrasound increases the matrix hardness of the healing tissues at bone-tendon insertion—a partial patellectomy model in rabbits. <i>Clinical Biomechanics</i> , 2006, 21, 387-394.	0.5	54
122	Osteogenic effects of flavonoid aglycones from an osteoprotective fraction of <i>Drynaria fortunei</i> —An in vitro efficacy study. <i>Phytomedicine</i> , 2011, 18, 868-872.	2.3	54
123	Sclerostin, an emerging therapeutic target for treating osteoporosis and osteoporotic fracture: A general review. <i>Journal of Orthopaedic Translation</i> , 2016, 4, 1-13.	1.9	54
124	Histomorphological study on pattern of fluid movement in cortical bone in goats. , 1999, 255, 380-387.		53
125	The use of brushite calcium phosphate cement for enhancement of bone-tendon integration in an anterior cruciate ligament reconstruction rabbit model. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 89B, 466-474.	1.6	53
126	Stimulated Angiogenesis for Fracture Healing Augmented by Low-Magnitude, High-Frequency Vibration in A Rat Model—Evaluation of Pulsed-Wave Doppler, 3-D Power Doppler Ultrasonography and Micro-CT Microangiography. <i>Ultrasound in Medicine and Biology</i> , 2012, 38, 2120-2129.	0.7	53



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127	Combined application of low-intensity pulsed ultrasound and functional electrical stimulation accelerates bone-tendon junction healing in a rabbit model. <i>Journal of Orthopaedic Research</i> , 2014, 32, 204-209.	1.2	53
128	Bacterial inhibition potential of 3D rapid-prototyped magnesium-based porous composite scaffolds: an in vitro efficacy study. <i>Scientific Reports</i> , 2015, 5, 13775.	1.6	53
129	YAP and TAZ Mediate Osteocyte Perilacunar/Canalicular Remodeling. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 196-210.	3.1	53
130	An ultrasonic measurement for in vitro depth-dependent equilibrium strains of articular cartilage in compression. <i>Physics in Medicine and Biology</i> , 2002, 47, 3165-3180.	1.6	52
131	Loading-induced Reduction in Sclerostin as a Mechanism of Subchondral Bone Plate Sclerosis in Mouse Knee Joints During Late-stage Osteoarthritis. <i>Arthritis and Rheumatology</i> , 2018, 70, 230-241.	2.9	52
132	Development of a novel biodegradable and anti-bacterial polyurethane coating for biomedical magnesium rods. <i>Materials Science and Engineering C</i> , 2019, 99, 344-356.	3.8	52
133	The beneficial effect of Icaritin on osteoporotic bone is dependent on the treatment initiation timing in adult ovariectomized rats. <i>Bone</i> , 2013, 55, 230-240.	1.4	50
134	Epidermal Growth Factor Receptor (EGFR) Signaling Regulates Epiphyseal Cartilage Development through $\beta$ -Catenin-dependent and -independent Pathways. <i>Journal of Biological Chemistry</i> , 2013, 288, 32229-32240.	1.6	50
135	In Vivo Identification and Induction of Articular Cartilage Stem Cells by Inhibiting NF- $\kappa$ B Signaling in Osteoarthritis. <i>Stem Cells</i> , 2015, 33, 3125-3137.	1.4	50
136	Age-related differences in volumetric bone mineral density, microarchitecture, and bone strength of distal radius and tibia in Chinese women: a high-resolution pQCT reference database study. <i>Osteoporosis International</i> , 2015, 26, 1691-1703.	1.3	50
137	Targeting autophagy in osteoporosis: From pathophysiology to potential therapy. <i>Ageing Research Reviews</i> , 2020, 62, 101098.	5.0	50
138	Regional differences in cortical bone mineral density in the weight-bearing long bone shaft: A pQCT study. <i>Bone</i> , 2005, 36, 465-471.	1.4	49
139	Abnormal Bone Quality in Adolescent Idiopathic Scoliosis. <i>Spine</i> , 2011, 36, 1211-1217.	1.0	49
140	A Comparative Study on the Biomechanical and Histological Properties of Bone-to-Bone, Bone-to-Tendon, and Tendon-to-Tendon Healing. <i>American Journal of Sports Medicine</i> , 2015, 43, 1413-1421.	1.9	49
141	Initiation Timing of Low-Intensity Pulsed Ultrasound Stimulation for Tendon-Bone Healing in a Rabbit Model. <i>American Journal of Sports Medicine</i> , 2016, 44, 2706-2715.	1.9	49
142	Surface coating reduces degradation rate of magnesium alloy developed for orthopaedic applications. <i>Journal of Orthopaedic Translation</i> , 2013, 1, 41-48.	1.9	48
143	Muscle mass, structural and functional investigations of senescence-accelerated mouse P8 (SAMP8). <i>Experimental Animals</i> , 2015, 64, 425-433.	0.7	48
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