

Ling Qin

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339
papers

11,566
citations

56
h-index

90
g-index

406
ext. papers

14,172
ext. citations

5.6
avg. IF

6.41
L-index

#	Paper	IF	Citations
339	Current status on clinical applications of magnesium-based orthopaedic implants: A review from clinical translational perspective. <i>Biomaterials</i> , 2017 , 112, 287-302	15.6	473
338	Implant-derived magnesium induces local neuronal production of CGRP to improve bone-fracture healing in rats. <i>Nature Medicine</i> , 2016 , 22, 1160-1169	50.5	410
337	A delivery system targeting bone formation surfaces to facilitate RNAi-based anabolic therapy. <i>Nature Medicine</i> , 2012 , 18, 307-14	50.5	274
336	Progress of biodegradable metals. <i>Progress in Natural Science: Materials International</i> , 2014 , 24, 414-422	3.6	222
335	Recommendation for modifying current cytotoxicity testing standards for biodegradable magnesium-based materials. <i>Acta Biomaterialia</i> , 2015 , 21, 237-49	10.8	201
334	Recent developments and challenges of lower extremity exoskeletons. <i>Journal of Orthopaedic Translation</i> , 2016 , 5, 26-37	4.2	200
333	Bone defect animal models for testing efficacy of bone substitute biomaterials. <i>Journal of Orthopaedic Translation</i> , 2015 , 3, 95-104	4.2	197
332	Osteogenic magnesium incorporated into PLGA/TCP porous scaffold by 3D printing for repairing challenging bone defect. <i>Biomaterials</i> , 2019 , 197, 207-219	15.6	183
331	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, 1072-9	6.3	178
330	Effects of basic fibroblast growth factor (bFGF) on early stages of tendon healing: a rat patellar tendon model. <i>Acta Orthopaedica</i> , 2000 , 71, 513-8		173
329	Cartilage regeneration using mesenchymal stem cells and a PLGA-gelatin/chondroitin/hyaluronate hybrid scaffold. <i>Biomaterials</i> , 2006 , 27, 4573-80	15.6	166
328	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 , 100, 1691-701	3.5	155
327	Vascularized bone grafting fixed by biodegradable magnesium screw for treating osteonecrosis of the femoral head. <i>Biomaterials</i> , 2016 , 81, 84-92	15.6	154
326	Impaired bone healing pattern in mice with ovariectomy-induced osteoporosis: A drill-hole defect model. <i>Bone</i> , 2011 , 48, 1388-400	4.7	141
325	A randomized, prospective study of the effects of Tai Chi Chun exercise on bone mineral density in postmenopausal women. <i>Archives of Physical Medicine and Rehabilitation</i> , 2004 , 85, 717-22	2.8	140
324	Porous composite scaffold incorporating osteogenic phytomolecule icariin for promoting skeletal regeneration in challenging osteonecrotic bone in rabbits. <i>Biomaterials</i> , 2018 , 153, 1-13	15.6	138
323	Changes of microstructure and mineralized tissue in the middle and late phase of osteoporotic fracture healing in rats. <i>Bone</i> , 2007 , 41, 631-8	4.7	131

322	High-frequency whole-body vibration improves balancing ability in elderly women. <i>Archives of Physical Medicine and Rehabilitation</i> , 2007 , 88, 852-7	2.8	126
321	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, 345-56	4.7	112
320	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	16.8	112
319	Biodegradable Magnesium-Based Implants in Orthopedics-A General Review and Perspectives. <i>Advanced Science</i> , 2020 , 7, 1902443	13.6	105
318	Low-magnitude high-frequency vibration treatment augments fracture healing in ovariectomy-induced osteoporotic bone. <i>Bone</i> , 2010 , 46, 1299-305	4.7	98
317	Yap1 Regulates Multiple Steps of Chondrocyte Differentiation during Skeletal Development and Bone Repair. <i>Cell Reports</i> , 2016 , 14, 2224-2237	10.6	90
316	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	10.8	89
315	Reciprocal inhibition of YAP/TAZ and NF- κ B regulates osteoarthritic cartilage degradation. <i>Nature Communications</i> , 2018 , 9, 4564	17.4	89
314	Low-magnitude high-frequency vibration accelerates callus formation, mineralization, and fracture healing in rats. <i>Journal of Orthopaedic Research</i> , 2009 , 27, 458-65	3.8	87
313	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, 1248-60	3.5	85
312	Porous gelatin-chondroitin-hyaluronate tri-copolymer scaffold containing microspheres loaded with TGF-beta1 induces differentiation of mesenchymal stem cells in vivo for enhancing cartilage repair. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 77, 785-94	5.4	85
311	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, 1355-9	2.8	84
310	Clinical Use of Quantitative Computed Tomography-Based Finite Element Analysis of the Hip and Spine in the Management of Osteoporosis in Adults: the 2015 ISCD Official Positions-Part II. <i>Journal of Clinical Densitometry</i> , 2015 , 18, 359-92	3.5	83
309	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	10.8	83
308	Beneficial effects of regular Tai Chi exercise on musculoskeletal system. <i>Journal of Bone and Mineral Metabolism</i> , 2005 , 23, 186-90	2.9	80
307	Association of osteopenia with curve severity in adolescent idiopathic scoliosis: a study of 919 girls. <i>Osteoporosis International</i> , 2005 , 16, 1924-32	5.3	79
306	Gelatin microspheres containing TGF-beta3 enhance the chondrogenesis of mesenchymal stem cells in modified pellet culture. <i>Biomacromolecules</i> , 2008 , 9, 927-34	6.9	78
305	Low-intensity pulsed ultrasound accelerates bone-tendon junction healing: a partial patellectomy model in rabbits. <i>American Journal of Sports Medicine</i> , 2006 , 34, 1287-96	6.8	73

304	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	3.5	70
303	Clinical Use of Quantitative Computed Tomography (QCT) of the Hip in the Management of Osteoporosis in Adults: the 2015 ISCD Official Positions-Part I. <i>Journal of Clinical Densitometry</i> , 2015 , 18, 338-58	3.5	70
302	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, 534-44	4.7	70
301	Clinical Use of Quantitative Computed Tomography-Based Advanced Techniques in the Management of Osteoporosis in Adults: the 2015 ISCD Official Positions-Part III. <i>Journal of Clinical Densitometry</i> , 2015 , 18, 393-407	3.5	69
300	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	10.6	68
299	Reduced bone perfusion in osteoporosis: likely causes in an ovariectomy rat model. <i>Radiology</i> , 2010 , 254, 739-46	20.5	67
298	Generalized osteopenia in adolescent idiopathic scoliosis--association with abnormal pubertal growth, bone turnover, and calcium intake?. <i>Spine</i> , 2006 , 31, 330-8	3.3	67
297	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, 125-43	15.6	66
296	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, 316-22	2.9	66
295	Role of mesenchymal stem cells in osteoarthritis treatment. <i>Journal of Orthopaedic Translation</i> , 2017 , 9, 89-103	4.2	65
294	Guidelines for clinical diagnosis and treatment of osteonecrosis of the femoral head in adults (2019 version). <i>Journal of Orthopaedic Translation</i> , 2020 , 21, 100-110	4.2	63
293	Traditional Chinese medicine in the treatment of rheumatoid arthritis: a general review. <i>Rheumatology International</i> , 2010 , 30, 713-8	3.6	63
292	Age-associated decrease of type IIA/B human skeletal muscle fibers. <i>Clinical Orthopaedics and Related Research</i> , 2006 , 450, 231-7	2.2	62
291	Critical review on the socio-economic impact of tendinopathy. <i>Asia-Pacific Journal of Sports Medicine, Arthroscopy, Rehabilitation and Technology</i> , 2016 , 4, 9-20	1.2	61
290	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	9.1	61
289	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	5.3	60
288	Preparation and biodegradation of electrospun PLLA/keratin nonwoven fibrous membrane. <i>Polymer Degradation and Stability</i> , 2009 , 94, 1800-1807	4.7	60
287	Phytoestrogen-rich herb formula "XLGB" prevents OVX-induced deterioration of musculoskeletal tissues at the hip in old rats. <i>Journal of Bone and Mineral Metabolism</i> , 2005 , 23 Suppl, 55-61	2.9	59

286	Dose-dependent effect of low-intensity pulsed ultrasound on callus formation during rapid distraction osteogenesis. <i>Journal of Orthopaedic Research</i> , 2006 , 24, 2072-9	3.8	57
285	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	1.9	56
284	A comparative study of bone to bone repair and bone to tendon healing in patella-patellar tendon complex in rabbits. <i>Clinical Biomechanics</i> , 2002 , 17, 594-602	2.2	56
283	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	3.7	55
282	Durable mesenchymal stem cell labelling by using polyhedral superparamagnetic iron oxide nanoparticles. <i>Chemistry - A European Journal</i> , 2009 , 15, 12417-25	4.8	54
281	Role of the calcium-calpain pathway in cytoskeletal damage after eccentric contractions. <i>Journal of Applied Physiology</i> , 2008 , 105, 352-7	3.7	54
280	Low BMD is a risk factor for low-energy CollesPfractures in women before and after menopause. <i>Clinical Orthopaedics and Related Research</i> , 2005 , 219-25	2.2	54
279	Low intensity pulsed ultrasound accelerated bone remodeling during consolidation stage of distraction osteogenesis. <i>Journal of Orthopaedic Research</i> , 2006 , 24, 263-70	3.8	53
278	Low-intensity pulsed ultrasound accelerates osteogenesis at bone-tendon healing junction. <i>Ultrasound in Medicine and Biology</i> , 2006 , 32, 1905-11	3.5	53
277	Knee exoskeletons for gait rehabilitation and human performance augmentation: A state-of-the-art. <i>Mechanism and Machine Theory</i> , 2019 , 134, 499-511	4	53
276	Sclerostin monoclonal antibody enhanced bone fracture healing in an open osteotomy model in rats. <i>Journal of Orthopaedic Research</i> , 2014 , 32, 997-1005	3.8	52
275	Extracorporeal shock wave therapy in treatment of delayed bone-tendon healing. <i>American Journal of Sports Medicine</i> , 2008 , 36, 340-7	6.8	52
274	Repair of Bone Erosion in Rheumatoid Arthritis by Denosumab: A High-Resolution Peripheral Quantitative Computed Tomography Study. <i>Arthritis Care and Research</i> , 2017 , 69, 1156-1163	4.7	50
273	A relook into the association of the estrogen receptor [alpha] gene (PvuII, XbaI) and adolescent idiopathic scoliosis: a study of 540 Chinese cases. <i>Spine</i> , 2006 , 31, 2463-8	3.3	50
272	Steroid-associated osteonecrosis: Epidemiology, pathophysiology, animal model, prevention, and potential treatments (an overview). <i>Journal of Orthopaedic Translation</i> , 2015 , 3, 58-70	4.2	49
271	Low-intensity pulsed ultrasound on tendon healing: a study of the effect of treatment duration and treatment initiation. <i>American Journal of Sports Medicine</i> , 2008 , 36, 1742-9	6.8	48
270	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, 387-94	2.2	48
269	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	5.4	47

268	From the printer: Potential of three-dimensional printing for orthopaedic applications. <i>Journal of Orthopaedic Translation</i> , 2016 , 6, 42-49	4.2	47
267	Low-magnitude high-frequency vibration (LMHFV) enhances bone remodeling in osteoporotic rat femoral fracture healing. <i>Journal of Orthopaedic Research</i> , 2011 , 29, 746-52	3.8	46
266	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 , 89, 466-474	3.5	46
265	Low-intensity pulsed ultrasound accelerated callus formation, angiogenesis and callus remodeling in osteoporotic fracture healing. <i>Ultrasound in Medicine and Biology</i> , 2011 , 37, 231-8	3.5	46
264	The beneficial effect of icaritin on osteoporotic bone is dependent on the treatment initiation timing in adult ovariectomized rats. <i>Bone</i> , 2013 , 55, 230-40	4.7	45
263	Magnesium alloy based interference screw developed for ACL reconstruction attenuates peri-tunnel bone loss in rabbits. <i>Biomaterials</i> , 2018 , 157, 86-97	15.6	45
262	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, 2120-9	3.5	43
261	Surface coating reduces degradation rate of magnesium alloy developed for orthopaedic applications. <i>Journal of Orthopaedic Translation</i> , 2013 , 1, 41-48	4.2	42
260	Sclerostin, an emerging therapeutic target for treating osteoporosis and osteoporotic fracture: A general review. <i>Journal of Orthopaedic Translation</i> , 2016 , 4, 1-13	4.2	41
259	A bone-targeting delivery system carrying osteogenic phytomolecule icaritin prevents osteoporosis in mice. <i>Biomaterials</i> , 2018 , 182, 58-71	15.6	40
258	Hybrid fracture fixation systems developed for orthopaedic applications: A general review. <i>Journal of Orthopaedic Translation</i> , 2019 , 16, 1-13	4.2	40
257	Bacterial inhibition potential of 3D rapid-prototyped magnesium-based porous composite scaffolds--an in vitro efficacy study. <i>Scientific Reports</i> , 2015 , 5, 13775	4.9	40
256	Icaritin, an exogenous phytomolecule, enhances osteogenesis but not angiogenesis--an in vitro efficacy study. <i>PLoS ONE</i> , 2012 , 7, e41264	3.7	40
255	Impact of surgical approach on postoperative heterotopic ossification and avascular necrosis in femoral head fractures: a systematic review. <i>International Orthopaedics</i> , 2010 , 34, 319-22	3.8	40
254	Osteogenic effects of flavonoid aglycones from an osteoprotective fraction of <i>Drynaria fortunei</i> --an in vitro efficacy study. <i>Phytomedicine</i> , 2011 , 18, 868-72	6.5	39
253	The effects of verbascoside on plasma lipid peroxidation level and erythrocyte membrane fluidity during immobilization in rabbits: a time course study. <i>Life Sciences</i> , 2003 , 73, 883-92	6.8	39
252	Exogenous phytoestrogenic molecule icaritin incorporated into a porous scaffold for enhancing bone defect repair. <i>Journal of Orthopaedic Research</i> , 2013 , 31, 164-72	3.8	38
251	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, 204-9	3.8	38

250	Structure and strength of the distal radius in female patients with rheumatoid arthritis: a case-control study. <i>Journal of Bone and Mineral Research</i> , 2013 , 28, 794-806	6.3	38
249	Abnormal bone quality in adolescent idiopathic scoliosis: a case-control study on 635 subjects and 269 normal controls with bone densitometry and quantitative ultrasound. <i>Spine</i> , 2011 , 36, 1211-7	3.3	38
248	Enrichment of CD146 Adipose-Derived Stem Cells in Combination with Articular Cartilage Extracellular Matrix Scaffold Promotes Cartilage Regeneration. <i>Theranostics</i> , 2019 , 9, 5105-5121	12.1	37
247	Smoking and impaired bone healing: will activation of cholinergic anti-inflammatory pathway be the bridge?. <i>International Orthopaedics</i> , 2011 , 35, 1267-70	3.8	37
246	Continuous occurrence of both insufficient neovascularization and elevated vascular permeability in rabbit proximal femur during inadequate repair of steroid-associated osteonecrotic lesions. <i>Arthritis and Rheumatism</i> , 2009 , 60, 2966-77		37
245	An in vitro optimized injectable calcium phosphate cement for augmenting screw fixation in osteopenic goats. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006 , 78, 153-60 ^{3.5}		37
244	A wearable exoskeleton suit for motion assistance to paralysed patients. <i>Journal of Orthopaedic Translation</i> , 2017 , 11, 7-18	4.2	36
243	Wnt16 attenuates osteoarthritis progression through a PCP/JNK-mTORC1-PTHrP cascade. <i>Annals of the Rheumatic Diseases</i> , 2019 , 78, 551-561	2.4	36
242	Low intensity pulsed ultrasound enhances fracture healing in both ovariectomy-induced osteoporotic and age-matched normal bones. <i>Journal of Orthopaedic Research</i> , 2012 , 30, 129-36	3.8	36
241	A Comparative Study on the Biomechanical and Histological Properties of Bone-to-Bone, Bone-to-Tendon, and Tendon-to-Tendon Healing: An Achilles Tendon-Calcaneus Model in Goats. <i>American Journal of Sports Medicine</i> , 2015 , 43, 1413-21	6.8	35
240	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	8.3	35
239	Angiogenesis Assays for the Evaluation of Angiogenic Properties of Orthopaedic Biomaterials - A General Review. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1600434	10.1	34
238	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	15.6	34
237	In Vivo Identification and Induction of Articular Cartilage Stem Cells by Inhibiting NF- κ B Signaling in Osteoarthritis. <i>Stem Cells</i> , 2015 , 33, 3125-37	5.8	34
236	Muscle mass, structural and functional investigations of senescence-accelerated mouse P8 (SAMP8). <i>Experimental Animals</i> , 2015 , 64, 425-33	1.8	34
235	Glucocorticoid-induced osteoporosis in growing rats. <i>Calcified Tissue International</i> , 2014 , 95, 362-73	3.9	34
234	Alterations of bone density, microstructure, and strength of the distal radius in male patients with rheumatoid arthritis: a case-control study with HR-pQCT. <i>Journal of Bone and Mineral Research</i> , 2014 , 29, 2118-29	6.3	34
233	Enlargement of remaining patella after partial patellectomy in rabbits. <i>Medicine and Science in Sports and Exercise</i> , 1999 , 31, 502-6	1.2	34

232	Magnesium and vitamin C supplementation attenuates steroid-associated osteonecrosis in a rat model. <i>Biomaterials</i> , 2020 , 238, 119828	15.6	33
231	Review of various treatment options and potential therapies for osteonecrosis of the femoral head. <i>Journal of Orthopaedic Translation</i> , 2016 , 4, 57-70	4.2	33
230	Micro-CT-based bone ceramic scaffolding and its performance after seeding with mesenchymal stem cells for repair of load-bearing bone defect in canine femoral head. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011 , 96, 316-25	3.5	33
229	Magnesium (Mg) based interference screws developed for promoting tendon graft incorporation in bone tunnel in rabbits. <i>Acta Biomaterialia</i> , 2017 , 63, 393-410	10.8	32
228	Promotion of bone repair by implantation of cryopreserved bone marrow-derived mononuclear cells in a rabbit model of steroid-associated osteonecrosis. <i>Arthritis and Rheumatism</i> , 2012 , 64, 1562-71		32
227	Ibandronate increases cortical bone density in patients with systemic lupus erythematosus on long-term glucocorticoid. <i>Arthritis Research and Therapy</i> , 2010 , 12, R198	5.7	32
226	Identification of genes responsive to low-intensity pulsed ultrasound stimulations. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 378, 569-73	3.4	32
225	Peri-graft bone mass and connectivity as predictors for the strength of tendon-to-bone attachment after anterior cruciate ligament reconstruction. <i>Bone</i> , 2009 , 45, 545-52	4.7	31
224	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	6.8	30
223	Therapeutic RNA interference targeting CKIP-1 with a cross-species sequence to stimulate bone formation. <i>Bone</i> , 2014 , 59, 76-88	4.7	30
222	Sclerostin Antibody Treatment Increases Bone Formation, Bone Mass, and Bone Strength of Intact Bones in Adult Male Rats. <i>Scientific Reports</i> , 2015 , 5, 15632	4.9	30
221	Bone structural and mechanical indices in Adolescent Idiopathic Scoliosis evaluated by high-resolution peripheral quantitative computed tomography (HR-pQCT). <i>Bone</i> , 2014 , 61, 109-15	4.7	30
220	Healing of bone-tendon junction in a bone trough: a goat partial patellectomy model. <i>Clinical Orthopaedics and Related Research</i> , 2003 , 291-302	2.2	30
219	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	8.3	29
218	Identification of metabolites of PSORALEAE FRUCTUS 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> , 2015 , 112, 23-35	3.5	29
217	A novel semisynthetic molecule icaritin stimulates osteogenic differentiation and inhibits adipogenesis of mesenchymal stem cells. <i>International Journal of Medical Sciences</i> , 2013 , 10, 782-9	3.7	29
216	Fabrication and degradation of poly(L-lactic acid) scaffolds with wool keratin. <i>Composites Part B: Engineering</i> , 2009 , 40, 664-667	10	29
215	Design and testing of a regenerative magnetorheological actuator for assistive knee braces. <i>Smart Materials and Structures</i> , 2017 , 26, 035013	3.4	28

214	Low-dose X-irradiation promotes mineralization of fracture callus in a rat model. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2009 , 129, 125-32	3.6	28
213	Callus formation is related to the expression ratios of estrogen receptors-alpha and -beta in ovariectomy-induced osteoporotic fracture healing. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2014 , 134, 1405-16	3.6	27
212	Structural and degradation characteristics of an innovative porous PLGA/TCP scaffold incorporated with bioactive molecular icaritin. <i>Biomedical Materials (Bristol)</i> , 2010 , 5, 054109	3.5	27
211	Dosing effects of an antiosteoporosis herbal formula--a preclinical investigation using a rat model. <i>Phytotherapy Research</i> , 2008 , 22, 267-73	6.7	27
210	Constitutional flavonoids derived from Epimedium dose-dependently reduce incidence of steroid-associated osteonecrosis not via direct action by themselves on potential cellular targets. <i>PLoS ONE</i> , 2009 , 4, e6419	3.7	27
209	Steroid-associated osteonecrosis animal model in rats. <i>Journal of Orthopaedic Translation</i> , 2018 , 13, 13-24	2	26
208	In vivo screening for anti-osteoporotic fraction from extract of herbal formula Xianlinggubao in ovariectomized mice. <i>PLoS ONE</i> , 2015 , 10, e0118184	3.7	26
207	Low-intensity pulsed ultrasound enhances posterior spinal fusion implanted with mesenchymal stem cells-calcium phosphate composite without bone grafting. <i>Spine</i> , 2011 , 36, 1010-6	3.3	26
206	Bone microarchitecture assessment by high-resolution peripheral quantitative computed tomography in patients with systemic lupus erythematosus taking corticosteroids. <i>Journal of Rheumatology</i> , 2010 , 37, 1473-9	4.1	26
205	Fabrication of a two-level tumor bone repair biomaterial based on a rapid prototyping technique. <i>Biofabrication</i> , 2009 , 1, 025003	10.5	26
204	Highly precise peripheral quantitative computed tomography for the evaluation of bone density, loss of bone density and structures. Consequences for prophylaxis and treatment. <i>Drugs and Aging</i> , 1998 , 12 Suppl 1, 15-24	4.7	26
203	Herbal Fufang Xian Ling Gu Bao prevents corticosteroid-induced osteonecrosis of the femoral head-A first multicentre, randomised, double-blind, placebo-controlled clinical trial. <i>Journal of Orthopaedic Translation</i> , 2018 , 12, 36-44	4.2	25
202	Blockage of Src by Specific siRNA as a Novel Therapeutic Strategy to Prevent Destructive Repair in Steroid-Associated Osteonecrosis in Rabbits. <i>Journal of Bone and Mineral Research</i> , 2015 , 30, 2044-57	6.3	25
201	Biofabrication of a PLGA-TCP-based porous bioactive bone substitute with sustained release of icaritin. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015 , 9, 961-72	4.4	25
200	Carbonic anhydrase IX-directed immunoliposomes for targeted drug delivery to human lung cancer cells in vitro. <i>Drug Design, Development and Therapy</i> , 2014 , 8, 993-1001	4.4	25
199	Osteogenesis induced by extracorporeal shockwave in treatment of delayed osteotendinous junction healing. <i>Journal of Orthopaedic Research</i> , 2010 , 28, 70-6	3.8	25
198	Use of a three-dimensional printed polylactide-coglycolide/tricalcium phosphate composite scaffold incorporating magnesium powder to enhance bone defect repair in rabbits. <i>Journal of Orthopaedic Translation</i> , 2019 , 16, 62-70	4.2	24
197	The effect of angiotensin-converting enzyme inhibitor use on bone loss in elderly Chinese. <i>Journal of Bone and Mineral Metabolism</i> , 2012 , 30, 666-73	2.9	24

196	The association of disproportionate skeletal growth and abnormal radius dimension ratio with curve severity in adolescent idiopathic scoliosis. <i>European Spine Journal</i> , 2010 , 19, 726-31	2.7	24
195	Low-intensity pulsed ultrasound increases cellular uptake of superparamagnetic iron oxide nanomaterial: results from human osteosarcoma cell line U2OS. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 31, 1508-13	5.6	24
194	Real-time ultrasonic assessment of progressive proteoglycan depletion in articular cartilage. <i>Ultrasound in Medicine and Biology</i> , 2008 , 34, 1085-92	3.5	24
193	Biodegradable Magnesium Screws Accelerate Fibrous Tissue Mineralization at the Tendon-Bone Insertion in Anterior Cruciate Ligament Reconstruction Model of Rabbit. <i>Scientific Reports</i> , 2017 , 7, 40369	4.9	23
192	Animal Models of Osteochondral Defect for Testing Biomaterials. <i>Biochemistry Research International</i> , 2020 , 2020, 9659412	2.4	23
191	Ankle-foot orthoses for rehabilitation and reducing metabolic cost of walking: Possibilities and challenges. <i>Mechatronics</i> , 2018 , 53, 241-250	3	23
190	Bone density and microarchitecture: relationship between hand, peripheral, and axial skeletal sites assessed by HR-pQCT and DXA in rheumatoid arthritis. <i>Calcified Tissue International</i> , 2012 , 91, 343-55	3.9	23
189	Experimental animal models of osteonecrosis. <i>Rheumatology International</i> , 2011 , 31, 983-94	3.6	23
188	Articular cartilage increases transition zone regeneration in bone-tendon junction healing. <i>Clinical Orthopaedics and Related Research</i> , 2009 , 467, 1092-100	2.2	23
187	Extracorporeal shockwave therapy for treatment of delayed tendon-bone insertion healing in a rabbit model: a dose-response study. <i>American Journal of Sports Medicine</i> , 2012 , 40, 2862-71	6.8	23
186	Innovative Tissue-Engineered Strategies for Osteochondral Defect Repair and Regeneration: Current Progress and Challenges. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2001008	10.1	23
185	Design and characterization of a magneto-rheological series elastic actuator for a lower extremity exoskeleton. <i>Smart Materials and Structures</i> , 2017 , 26, 105008	3.4	22
184	Hypoxia is essential for bone-tendon junction healing: the molecular biological evidence. <i>International Orthopaedics</i> , 2011 , 35, 925-8	3.8	22
183	Regional variations in the apparent and tissue-level mechanical parameters of vertebral trabecular bone with aging using micro-finite element analysis. <i>Annals of Biomedical Engineering</i> , 2007 , 35, 1622-31	4.7	22
182	Osteogenic effects of low-intensity pulsed ultrasound, extracorporeal shockwaves and their combination - an in vitro comparative study on human periosteal cells. <i>Ultrasound in Medicine and Biology</i> , 2008 , 34, 1957-65	3.5	22
181	Calcitonin Gene-Related Peptide Enhances Distraction Osteogenesis by Increasing Angiogenesis. <i>Tissue Engineering - Part A</i> , 2021 , 27, 87-102	3.9	22
180	Comparative study of poly (lactic-co-glycolic acid)/tricalcium phosphate scaffolds incorporated or coated with osteogenic growth factors for enhancement of bone regeneration. <i>Journal of Orthopaedic Translation</i> , 2014 , 2, 91-104	4.2	21
179	Area, length and mineralization content of new bone at bone-tendon junction predict its repair quality. <i>Journal of Orthopaedic Research</i> , 2011 , 29, 672-7	3.8	21

178	Tai Chi Chuan exercises in enhancing bone mineral density in active seniors. <i>Clinics in Sports Medicine</i> , 2008 , 27, 75-86, viii	2.6	21
177	Biodegradable Magnesium (Mg) Implantation Does Not Impose Related Metabolic Disorders in Rats with Chronic Renal Failure. <i>Scientific Reports</i> , 2016 , 6, 26341	4.9	20
176	Five-year follow-up study of a kidney-tonifying herbal Fufang for prevention of postmenopausal osteoporosis and fragility fractures. <i>Journal of Bone and Mineral Metabolism</i> , 2012 , 30, 517-24	2.9	20
175	Phenylpropanoid and flavonoids from osteoprotective fraction of <i>Drynaria fortunei</i> . <i>Natural Product Research</i> , 2010 , 24, 1206-13	2.3	20
174	Ultrasound detection of trypsin-treated articular cartilage: its association with cartilaginous proteoglycans assessed by histological and biochemical methods. <i>Journal of Bone and Mineral Metabolism</i> , 2002 , 20, 281-7	2.9	20
173	Three-dimensional high frequency power Doppler ultrasonography for the assessment of microvasculature during fracture healing in a rat model. <i>Journal of Orthopaedic Research</i> , 2012 , 30, 137-43 ⁸	2.8	19
172	Phytoestrogenic molecule desmethylicaritin suppressed adipogenesis via Wnt/ β -catenin signaling pathway. <i>European Journal of Pharmacology</i> , 2013 , 714, 254-60	5.3	19
171	Functional perfusion MRI predicts later occurrence of steroid-associated osteonecrosis: an experimental study in rabbits. <i>Journal of Orthopaedic Research</i> , 2009 , 27, 742-7	3.8	19
170	Vertebral blood perfusion reduction associated with vertebral bone mineral density reduction: a dynamic contrast-enhanced MRI study in a rat orchietomy model. <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 28, 1515-8	5.6	19
169	Intra-Articular Delivery of Quercetin Using Thermosensitive Hydrogel Attenuate Cartilage Degradation in an Osteoarthritis Rat Model. <i>Cartilage</i> , 2020 , 11, 490-499	3	19
168	A novel bone targeting delivery system carrying phytomolecule icaritin for prevention of steroid-associated osteonecrosis in rats. <i>Bone</i> , 2018 , 106, 52-60	4.7	18
167	Src blockage by siRNA inhibits VEGF-induced vascular hyperpemeability and osteoclast activity - an in vitro mechanism study for preventing destructive repair of osteonecrosis. <i>Bone</i> , 2015 , 74, 58-68	4.7	18
166	Shockwave exerts osteogenic effect on osteoporotic bone in an ovariectomized goat model. <i>Ultrasound in Medicine and Biology</i> , 2009 , 35, 1109-18	3.5	18
165	Comparison study of different coatings on degradation performance and cell response of Mg-Sr alloy. <i>Materials Science and Engineering C</i> , 2016 , 69, 95-107	8.3	17
164	Quantitative ultrasound for predicting curve progression in adolescent idiopathic scoliosis: a prospective cohort study of 294 cases followed-up beyond skeletal maturity. <i>Ultrasound in Medicine and Biology</i> , 2013 , 39, 381-7	3.5	17
163	Steroid-associated hip joint collapse in bipedal emus. <i>PLoS ONE</i> , 2013 , 8, e76797	3.7	17
162	Targeting autophagy in osteoporosis: From pathophysiology to potential therapy. <i>Ageing Research Reviews</i> , 2020 , 62, 101098	12	16
161	Biomechanical comparison of pure magnesium interference screw and polylactic acid polymer interference screw in anterior cruciate ligament reconstruction-A cadaveric experimental study. <i>Journal of Orthopaedic Translation</i> , 2017 , 8, 32-39	4.2	16

160	Influence of bone adaptation on tendon-to-bone healing in bone tunnel after anterior cruciate ligament reconstruction in a rabbit model. <i>Journal of Orthopaedic Research</i> , 2009 , 27, 1447-56	3.8	16
159	Study in Treatment of Collagen-Induced Arthritis in DBA/1 Mice Model by Genistein. <i>Current Pharmaceutical Design</i> , 2016 , 22, 6975-6981	3.3	16
158	State-of-the-art research in robotic hip exoskeletons: A general review. <i>Journal of Orthopaedic Translation</i> , 2020 , 20, 4-13	4.2	16
157	Effect and mechanism of psoralidin on promoting osteogenesis and inhibiting adipogenesis. <i>Phytomedicine</i> , 2019 , 61, 152860	6.5	15
156	The effects of atorvastatin on the prevention of osteoporosis and dyslipidemia in the high-fat-fed ovariectomized rats. <i>Calcified Tissue International</i> , 2015 , 96, 541-51	3.9	15
155	Anti-Inflammatory and Chondroprotective Effects of Vanillic Acid and Epimedin C in Human Osteoarthritic Chondrocytes. <i>Biomolecules</i> , 2020 , 10,	5.9	15
154	In vitro and in vivo studies on as-extruded Mg- 5.25wt.%Zn-0.6wt.%Ca alloy as biodegradable metal. <i>Science China Materials</i> , 2018 , 61, 619-628	7.1	15
153	Apparent- and Tissue-Level Yield Behaviors of L4 Vertebral Trabecular Bone and Their Associations with Microarchitectures. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 1204-23	4.7	15
152	Puerarin promotes osteogenesis and inhibits adipogenesis in vitro. <i>Chinese Medicine</i> , 2013 , 8, 17	4.7	15
151	Cytotoxicity studies of AZ31D alloy and the effects of carbon dioxide on its biodegradation behavior in vitro. <i>Materials Science and Engineering C</i> , 2013 , 33, 4416-26	8.3	15
150	Staining intensity of individual osteons correlated with elastic properties and degrees of mineralization. <i>Journal of Bone and Mineral Metabolism</i> , 2001 , 19, 359-64	2.9	15
149	Reference Joint Trajectories Generation of CUHK-EXO Exoskeleton for System Balance in Walking Assistance. <i>IEEE Access</i> , 2019 , 7, 33809-33821	3.5	14
148	CD8 T-cell plasticity regulates vascular regeneration in type-2 diabetes. <i>Theranostics</i> , 2020 , 10, 4217-4232	2.1	14
147	Investigation of the inner corrosion layer formed in pulse electrodeposition coating on Mg-Sr alloy and corresponding degradation behavior. <i>Journal of Colloid and Interface Science</i> , 2016 , 481, 1-12	9.3	14
146	Combination of magnesium ions and vitamin C alleviates synovitis and osteophyte formation in osteoarthritis of mice. <i>Bioactive Materials</i> , 2021 , 6, 1341-1352	16.7	14
145	Identification, bioactivity evaluation and pharmacokinetics of multiple components in rat serum after oral administration of Xian-Ling-Gu-Bao capsule by ultra performance liquid chromatography coupled with quadrupole time-of-flight tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical Sciences</i> , 2017 , 1011-1012, 101-112	3.2	13
144	Increased organ damage associated with deterioration in volumetric bone density and bone microarchitecture in patients with systemic lupus erythematosus on longterm glucocorticoid therapy. <i>Journal of Rheumatology</i> , 2012 , 39, 1955-63	4.1	13
143	Lack of efficacy of low-intensity pulsed ultrasound on prevention of postmenopausal bone loss evaluated at the distal radius in older Chinese women. <i>Clinical Orthopaedics and Related Research</i> , 2004 , 234-40	2.2	13

142	Regulation of Inflammatory Response in Human Osteoarthritic Chondrocytes by Novel Herbal Small Molecules. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	13
141	A Traditional Herbal Formula Xianlinggubao for Pain Control and Function Improvement in Patients with Knee and Hand Osteoarthritis: A Multicenter, Randomized, Open-Label, Controlled Trial. <i>Evidence-based Complementary and Alternative Medicine</i> , 2018 , 2018, 1827528	2.3	13
140	Optimisation of platelet concentrates therapy: Composition, localisation, and duration of action. <i>Asia-Pacific Journal of Sports Medicine, Arthroscopy, Rehabilitation and Technology</i> , 2017 , 7, 27-36	1.2	12
139	The potential of liposomes with carbonic anhydrase IX to deliver anticancer ingredients to cancer cells in vivo. <i>International Journal of Molecular Sciences</i> , 2014 , 16, 230-55	6.3	12
138	Value of Measuring Bone Microarchitecture in Fracture Discrimination in Older Women with Recent Hip Fracture: A Case-control Study with HR-pQCT. <i>Scientific Reports</i> , 2016 , 6, 34185	4.9	12
137	Comparative study of two types of herbal capsules with different species for the prevention of ovariectomised-induced osteoporosis in rats. <i>Journal of Orthopaedic Translation</i> , 2016 , 4, 14-27	4.2	12
136	Correlations of calcaneal QUS with pQCT measurements at distal tibia and non-weight-bearing distal radius. <i>Journal of Bone and Mineral Metabolism</i> , 2004 , 22, 486-90	2.9	12
135	Cinnamaldehyde Inhibits Inflammation of Human Synoviocyte Cells Through Regulation of Jak/Stat Pathway and Ameliorates Collagen-Induced Arthritis in Rats. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2020 , 373, 302-310	4.7	11
134	Antibacterial Properties of Nanosilver PLLA Fibrous Membranes. <i>Journal of Nanomaterials</i> , 2009 , 2009, 1-5	3.2	11
133	Healing compared between bone to tendon and cartilage to tendon in a partial inferior patellectomy model in rabbits. <i>Clinical Journal of Sport Medicine</i> , 2008 , 18, 62-9	3.2	11
132	3D-bioprinted BMSC-laden biomimetic multiphasic scaffolds for efficient repair of osteochondral defects in an osteoarthritic rat model. <i>Biomaterials</i> , 2021 , 279, 121216	15.6	11
131	Nanoparticle-Cartilage Interaction: Pathology-Based Intra-articular Drug Delivery for Osteoarthritis Therapy. <i>Nano-Micro Letters</i> , 2021 , 13, 149	19.5	11
130	Comparison of modified injection molding and conventional machining in biodegradable behavior of perforated cannulated magnesium hip stents. <i>Journal of Materials Science and Technology</i> , 2021 , 63, 145-160	9.1	11
129	Biodegradable magnesium combined with distraction osteogenesis synergistically stimulates bone tissue regeneration via CGRP-FAK-VEGF signaling axis. <i>Biomaterials</i> , 2021 , 275, 120984	15.6	11
128	Sit-to-stand and stand-to-sit assistance for paraplegic patients with CUHK-EXO exoskeleton. <i>Robotica</i> , 2018 , 36, 535-551	2.1	10
127	Atypical femoral fractures and current management. <i>Journal of Orthopaedic Translation</i> , 2016 , 7, 7-22	4.2	10
126	Age-related vessel calcification at distal extremities is a risk factor of osteoporosis. <i>Journal of Orthopaedic Translation</i> , 2014 , 2, 43-48	4.2	10
125	Modeling elastic waves in coupled media: Estimate of soft tissue influence and application to quantitative ultrasound. <i>Ultrasonics</i> , 2013 , 53, 350-62	3.5	10

124	Triterpenoid saponins from <i>Dipsacus asper</i> and their activities in vitro. <i>Journal of Asian Natural Products Research</i> , 2011 , 13, 851-60	1.5	10
123	Bone densitometry: which skeletal sites are best predicted by bone mass determinants?. <i>Journal of Bone and Mineral Metabolism</i> , 2004 , 22, 447-55	2.9	10
122	Overview of methods for enhancing bone regeneration in distraction osteogenesis: Potential roles of biometals. <i>Journal of Orthopaedic Translation</i> , 2021 , 27, 110-118	4.2	10
121	Carotid plaque and bone density and microarchitecture in psoriatic arthritis: the correlation with soluble ST2. <i>Scientific Reports</i> , 2016 , 6, 32116	4.9	10
120	Multifunctional magnesium incorporated scaffolds by 3D-Printing for comprehensive postsurgical management of osteosarcoma. <i>Biomaterials</i> , 2021 , 275, 120950	15.6	10
119	Effect of treat-to-target strategies on bone erosion progression in early rheumatoid arthritis: An HR-pQCT study. <i>Seminars in Arthritis and Rheumatism</i> , 2018 , 48, 374-383	5.3	9
118	Biodegradable Poly(l-lactic acid) (PLLA) Coatings Fabricated from Nonsolvent Induced Phase Separation for Improving Corrosion Resistance of Magnesium Rods in Biological Fluids. <i>Langmuir</i> , 2018 , 34, 10684-10693	4	9
117	Simultaneous Quantification of Multiple Representative Components in the Xian-Ling-Gu-Bao Capsule by Ultra-Performance Liquid Chromatography Coupled with Quadrupole Time-of-Flight Tandem Mass Spectrometry. <i>Molecules</i> , 2017 , 22,	4.8	9
116	Comprehensive surface-based morphometry reveals the association of fracture risk and bone geometry. <i>Journal of Orthopaedic Research</i> , 2012 , 30, 1277-84	3.8	9
115	Low-dose X-ray irradiation promotes fracture healing through up-regulation of vascular endothelial growth factor. <i>Medical Hypotheses</i> , 2010 , 75, 522-4	3.8	9
114	The potential application of nicotinic acetylcholine receptor agonists for the treatment of rheumatoid arthritis. <i>Inflammation Research</i> , 2010 , 59, 415-7	7.2	9
113	A drug eluting poly(trimethylene carbonate)/poly(lactic acid)-reinforced nanocomposite for the functional delivery of osteogenic molecules. <i>International Journal of Nanomedicine</i> , 2018 , 13, 5701-5718	7.3	9
112	Segmental composite porous scaffolds with either osteogenesis or anti-bone resorption properties tested in a rabbit ulna defect model. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 34-43	4.4	8
111	AChRs Degeneration at NMJ in Aging-Associated Sarcopenia-A Systematic Review. <i>Frontiers in Aging Neuroscience</i> , 2020 , 12, 597811	5.3	8
110	Quantitative determination of residual 1,4-dioxane in three-dimensional printed bone scaffold. <i>Journal of Orthopaedic Translation</i> , 2018 , 13, 58-67	4.2	8
109	Normative Standards for HRpQCT Parameters in Chinese Men and Women. <i>Journal of Bone and Mineral Research</i> , 2018 , 33, 1889-1899	6.3	8
108	New bone formation and microstructure assessed by combination of confocal laser scanning microscopy and differential interference contrast microscopy. <i>Calcified Tissue International</i> , 2014 , 94, 338-47	3.9	8
107	Design of a lower extremity exoskeleton for motion assistance in paralyzed individuals 2015 ,		8

106	Extracorporeal shockwave enhanced regeneration of fibrocartilage in a delayed tendon-bone insertion repair model. <i>Journal of Orthopaedic Research</i> , 2014 , 32, 507-14	3.8	8
105	Development and validation of a lifetime exposure questionnaire for use among Chinese populations. <i>Scientific Reports</i> , 2013 , 3, 2793	4.9	8
104	Statistical analysis of bone mineral density using voxel-based morphometry-an application on proximal sesamoid bones in racehorses. <i>Journal of Orthopaedic Research</i> , 2011 , 29, 1230-6	3.8	8
103	Proximal femur bone marrow blood perfusion indices are reduced in hypertensive rats: a dynamic contrast-enhanced MRI study. <i>Journal of Magnetic Resonance Imaging</i> , 2009 , 30, 1139-44	5.6	8
102	Evaluation of bone-tendon junction healing using water jet ultrasound indentation method. <i>Ultrasound in Medicine and Biology</i> , 2009 , 35, 1783-93	3.5	8
101	Effect of epimedium-derived phytoestrogen on bone turnover and bone microarchitecture in OVX-induced osteoporotic rats. <i>Journal of Huazhong University of Science and Technology [Medical Sciences]</i> , 2008 , 28, 167-70		8
100	Magnesium-pretreated periosteum for promoting bone-tendon healing after anterior cruciate ligament reconstruction. <i>Biomaterials</i> , 2021 , 268, 120576	15.6	8
99	Application of ultrasound accelerates the decalcification process of bone matrix without affecting histological and immunohistochemical analysis. <i>Journal of Orthopaedic Translation</i> , 2019 , 17, 112-120	4.2	7
98	NOD2 negatively regulated titanium particle-induced osteolysis in mice. <i>Biomaterials Science</i> , 2019 , 7, 2702-2715	7.4	7
97	Src siRNA prevents corticosteroid-associated osteoporosis in a rabbit model. <i>Bone</i> , 2016 , 83, 190-196	4.7	7
96	Circulating miR-99b-5p as a novel predictor of erosion progression on high-resolution peripheral quantitative computed tomography in early rheumatoid arthritis: A prospective cohort study. <i>International Journal of Rheumatic Diseases</i> , 2019 , 22, 1724-1733	2.3	7
95	three-dimensional magnetic resonance imaging of rat knee osteoarthritis model induced using meniscal transection. <i>Journal of Orthopaedic Translation</i> , 2015 , 3, 134-141	4.2	7
94	New therapeutic approaches for the treatment of rheumatoid arthritis may rise from the cholinergic anti-inflammatory pathway and antinociceptive pathway. <i>Scientific World Journal, The</i> , 2010 , 10, 2248-53	2.2	7
93	Rat lumbar vertebrae bone densitometry using multidetector CT. <i>European Radiology</i> , 2009 , 19, 882-90	8	7
92	Fracture healing enhancement with low intensity pulsed ultrasound at a critical application angle. <i>Ultrasound in Medicine and Biology</i> , 2011 , 37, 1120-33	3.5	7
91	A comparative study between axial compression and lateral fall configuration tested in a rat proximal femur model. <i>Clinical Biomechanics</i> , 2005 , 20, 729-35	2.2	7
90	Characteristics of long bone DXA reference data in Hong Kong Chinese. <i>Journal of Clinical Densitometry</i> , 2004 , 7, 192-200	3.5	7
89	Validity of leptin receptor-deficiency (db/db) type 2 diabetes mellitus mice as a model of secondary osteoporosis. <i>Scientific Reports</i> , 2016 , 6, 27745	4.9	7

88	Small Heterodimer Partner Negatively Regulates TLR4 Signaling Pathway of Titanium Particles-Induced Osteolysis in Mice. <i>Journal of Biomedical Nanotechnology</i> , 2018 , 14, 609-618	4	7
87	Antiresorptive Agents are More Effective in Preventing Titanium Particle-Induced Calvarial Osteolysis in Ovariectomized Mice Than Anabolic Agents in Short-Term Administration. <i>Artificial Organs</i> , 2018 , 42, E259-E271	2.6	7
86	Presence of Bacteria in Spontaneous Achilles Tendon Ruptures. <i>American Journal of Sports Medicine</i> , 2017 , 45, 2061-2067	6.8	6
85	Correlation study of scanning acoustic microscope reflection coefficients and image brightness intensities of micrographed osteons. <i>Journal of Bone and Mineral Metabolism</i> , 2004 , 22, 86-9	2.9	6
84	Bone Mass, Microstructure, and Strength Can Discriminate Vertebral Fracture in Patients on Long-Term Steroid Treatment. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018 , 103, 3340-3349	5.6	6
83	Synergistic effects of magnesium ions and simvastatin on attenuation of high-fat diet-induced bone loss. <i>Bioactive Materials</i> , 2021 , 6, 2511-2522	16.7	6
82	Poly(l-lactic acid) (PLLA)/MgSO ₄ ·7H ₂ O Composite Coating on Magnesium Substrates for Corrosion Protection and Cytocompatibility Promotion.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 1364-1373	4.1	5
81	A Critical Comparison Between Two Scanning Protocols of High-Resolution Peripheral Quantitative Computed Tomography at the Distal Radius in Adolescents. <i>Journal of Clinical Densitometry</i> , 2016 , 19, 305-15	3.5	5
80	Lifelong bound feet in China: a quantitative ultrasound and lifestyle questionnaire study in postmenopausal women. <i>BMJ Open</i> , 2015 , 5, e006521	3	5
79	Fast and accurate 3-D registration of HR-pQCT images. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2010 , 14, 1291-7		5
78	Trabecular bone status in ultradistal tibia under habitual gait loading: a pQCT study in postmenopausal women. <i>Journal of Clinical Densitometry</i> , 2006 , 9, 175-83	3.5	5
77	Implantable Electrical Stimulation at Dorsal Root Ganglions Accelerates Osteoporotic Fracture Healing via Calcitonin Gene-Related Peptide. <i>Advanced Science</i> , 2021 , 9, e2103005	13.6	5
76	Biomaterials developed for facilitating healing outcome after anterior cruciate ligament reconstruction: Efficacy, surgical protocols, and assessments using preclinical animal models. <i>Biomaterials</i> , 2021 , 269, 120625	15.6	5
75	Jingshu Keli attenuates cervical spinal nerve ligation-induced allodynia in rats through inhibition of spinal microglia and Stat3 activation. <i>Spine Journal</i> , 2018 , 18, 2112-2118	4	5
74	Clinical translation and challenges of biodegradable magnesium-based interference screws in ACL reconstruction. <i>Bioactive Materials</i> , 2021 , 6, 3231-3243	16.7	5
73	Biodegradable magnesium pins enhanced the healing of transverse patellar fracture in rabbits. <i>Bioactive Materials</i> , 2021 , 6, 4176-4185	16.7	5
72	Anti-infection mechanism of a novel dental implant made of titanium-copper (TiCu) alloy and its mechanism associated with oral microbiology. <i>Bioactive Materials</i> , 2022 , 8, 381-395	16.7	5
71	3D-printed NIR-responsive shape memory polyurethane/magnesium scaffolds with tight-contact for robust bone regeneration.. <i>Bioactive Materials</i> , 2022 , 16, 218-231	16.7	5

70	Computed radiographic and ultrasonic evaluation of bone regeneration during tibial distraction osteogenesis in rabbits. <i>Ultrasound in Medicine and Biology</i> , 2012 , 38, 1744-58	3.5	4
69	Sunlight exposure and breast density: a population-based study. <i>Journal of Breast Cancer</i> , 2013 , 16, 171-7		4
68	Age- and direction-related adaptations of lumbar vertebral trabecular bone with respect to apparent stiffness and tissue level stress distribution. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2009 , 25, 121-129	2	4
67	Pitfalls in interpreting rat knee joint magnetic resonance images and their histological correlation. <i>Acta Radiologica</i> , 2009 , 50, 1042-8	2	4
66	"Three-in-one" patient-specific surgical guides for simultaneous dental implants in fibula flap jaw reconstruction: A prospective case series. <i>Clinical Implant Dentistry and Related Research</i> , 2021 , 23, 43-53 ^{3.9}		4
65	An impaired healing model of osteochondral defect in papain-induced arthritis. <i>Journal of Orthopaedic Translation</i> , 2021 , 26, 101-110	4.2	4
64	Fracture healing in a collagen-induced arthritis rat model: Radiology and histology evidence. <i>Journal of Orthopaedic Research</i> , 2018 , 36, 2876-2885	3.8	4
63	Magnesium implantation or supplementation ameliorates bone disorder in CFTR-mutant mice through an ATF4-dependent Wnt/βcatenin signaling. <i>Bioactive Materials</i> , 2022 , 8, 95-108	16.7	4
62	Bone measurements at multiple skeletal sites in adolescent idiopathic scoliosis-an in vivo correlation study using DXA, HR-pQCT and QCT. <i>Archives of Osteoporosis</i> , 2019 , 14, 70	2.9	3
61	A model for facilitating translational research and development in China: Call for establishing a Hong Kong Branch of the Chinese National Engineering Research Centre for Biomaterials. <i>Journal of Orthopaedic Translation</i> , 2014 , 2, 170-176	4.2	3
60	A study on bone mass in elderly chinese foot-binding women. <i>International Journal of Endocrinology</i> , 2013 , 2013, 351670	2.7	3
59	Restoration of longitudinal growth by bioengineered cartilage pellet in physal injury is not affected by low intensity pulsed ultrasound. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011 , 99, 36-44	3.5	3
58	Activated Src phosphorylation accompanied by both vascular hyperpermeability and dominant bone resorption during destructive repair of steroid-associated osteonecrotic lesions in rabbits. <i>Bone</i> , 2010 , 47, S401	4.7	3
57	XLGB-B prevents bone loss in OVX mice by inhibiting bone remodeling. <i>Bone</i> , 2010 , 47, S433	4.7	3
56	Fossa trochanterica of the proximal femur in rabbits: an anatomic structure for potential misinterpretation on magnetic resonance images. <i>Acta Radiologica</i> , 2009 , 50, 212-6	2	3
55	"Old drugs" for the treatment of rheumatoid arthritis: will the cholinergic anti-inflammatory pathway and anti-nociceptive pathway work?. <i>Inflammation Research</i> , 2010 , 59, 1005-7	7.2	3
54	Fabrication of Poly(L-Lactic Acid) Scaffolds with Wool Keratin for Osteoblast Cultivation. <i>Advanced Materials Research</i> , 2008 , 47-50, 845-848	0.5	3
53	Quantification of Porosity, Connectivity and Material Density of Calcium Phosphate Ceramic Implants Using Micro-Computed Tomography 2007 , 289-305		3

52	MECHANICAL TESTING FOR BONE SPECIMENS 2005 , 177-212		3
51	PLGA/βTCP composite scaffold incorporating cucurbitacin B promotes bone regeneration by inducing angiogenesis. <i>Journal of Orthopaedic Translation</i> , 2021 , 31, 41-51	4.2	3
50	In-Vivo Bone Mineral Density and Structures in Humans: From Isotom Over Densiscan to Xtreme-CT 2007 , 65-78		3
49	Magnesium and osteoarthritis: from a new perspective. <i>Annals of Joint</i> , 2016 , 29-29	0.8	3
48	Progressive structural bone changes and their relationship with treatment in patients with psoriatic arthritis: a longitudinal HR-pQCT study. <i>Arthritis Research and Therapy</i> , 2019 , 21, 265	5.7	3
47	Comprehensive Analysis of Key Genes, Signaling Pathways and miRNAs in Human Knee Osteoarthritis: Based on Bioinformatics. <i>Frontiers in Pharmacology</i> , 2021 , 12, 730587	5.6	3
46	Magnesium-Encapsulated Injectable Hydrogel and 3D-Engineered Polycaprolactone Conduit Facilitate Peripheral Nerve Regeneration. <i>Advanced Science</i> , 2202102	13.6	3
45	The RAPIDOS project-European and Chinese collaborative research on biomaterials. <i>Journal of Orthopaedic Translation</i> , 2015 , 3, 78-84	4.2	2
44	Low intensity pulsed ultrasound increases the mechanical properties of the healing tissues at bone-tendon junction. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 2141-4	0.9	2
43	Bone marrow derived mesenchymal stem cell labeling using silica-coated superparamagnetic iron oxide nanoparticles: Effects of amine functional peripheries. <i>Bone</i> , 2008 , 43, S94-S95	4.7	2
42	Icaritin, a potential estrogen receptor beta antagonist molecule Icaritin, promote osteoporotic fracture repair in ovariectomized mice: Preliminary finding at 3 weeks post fracture. <i>Bone</i> , 2008 , 43, S76-S77	4.7	2
41	Antibacterial and Nontoxic Nano Silver PLLA Composites for Tissue Engineering. <i>Advanced Materials Research</i> , 2008 , 47-50, 849-852	0.5	2
40	Removal of the lateral or medial third of patellar tendon alters the patellofemoral contact pressure and area: an in vitro experimental study in dogs. <i>Clinical Biomechanics</i> , 2000 , 15, 695-701	2.2	2
39	Macrophages in epididymal adipose tissue secrete osteopontin to regulate bone homeostasis.. <i>Nature Communications</i> , 2022 , 13, 427	17.4	2
38	Effects of RANKL inhibition on promoting healing of bone erosion in rheumatoid arthritis using HR-pQCT: a 2-year, randomised, double-blind, placebo-controlled trial. <i>Annals of the Rheumatic Diseases</i> , 2021 ,	2.4	2
37	Magnesium supplementation alleviates corticosteroid-associated muscle atrophy in rats. <i>European Journal of Nutrition</i> , 2021 , 60, 4379-4392	5.2	2
36	Promoting osteointegration effect of Cu-alloyed titanium in ovariectomized rats.. <i>International Journal of Energy Production and Management</i> , 2022 , 9, rbac011	5.3	2
35	The relationship between angiotensin-converting enzyme (ACE) insertion (I) / deletion (D) polymorphism, serum ACE activity and bone mineral density (BMD) in older Chinese. <i>JRAAS - Journal of the Renin-Angiotensin-Aldosterone System</i> , 2017 , 18, 1470320316688345	3	1

34	Dielectric investigations on how Mg salt is dispersed in and released from polylactic acid. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2014 , 32, 497-508	3.5	1
33	International Combined Orthopaedic Research Societies: A model for international collaboration to promote orthopaedic and musculoskeletal research. <i>Journal of Orthopaedic Translation</i> , 2014 , 2, 165-169	4.2	1
32	Low-dose X-irradiation promotes callus mineralization by stimulation of angiogenesis through VEGF up-regulation. <i>Bone</i> , 2010 , 47, S403-S404	4.7	1
31	Icaritin with dual action prevents ovariectomy-induced osteoporosis in mice: Beneficial effect on bone and muscle via estrogen-receptor dependent and independent pathway, respectively. <i>Bone</i> , 2010 , 47, S416-S417	4.7	1
30	Increased CKIP-1 expression vs decreased TGF-beta receptor 1 expression during aging-induced cartilage degeneration in female rats. <i>Bone</i> , 2010 , 47, S419	4.7	1
29	A comparative study on osteogenic ability of PLGA/TCP scaffolds between incorporating phytoestrogenic molecule and BMP2. <i>Bone</i> , 2010 , 47, S429-S430	4.7	1
28	Cytotoxicity and Cell Adhesion of PLLA/keratin Composite Fibrous Membranes. <i>IFMBE Proceedings</i> , 2009 , 1492-1495	0.2	1
27	Haemodialysis access via tissue-engineered vascular graft. <i>Lancet, The</i> , 2009 , 374, 200-1; author reply 201	4.0	1
26	Biomechanical study of an anthropometrically designed hip protector for older chinese women. <i>Geriatric Nursing</i> , 2008 , 29, 64-9	2.1	1
25	Bio-Engineered Mesenchymal Stem Cell-Tricalcium Phosphate Ceramics Composite Augmented Bone Regeneration in Posterior Spinal Fusion. <i>Key Engineering Materials</i> , 2007 , 334-335, 1201-1204	0.4	1
24	Magnesium facilitates the healing of atypical femoral fractures: A single-cell transcriptomic study. <i>Materials Today</i> , 2022 ,	21.8	1
23	The first case of primary hypertrophic osteoarthropathy with soft tissue giant tumors caused by HPGD loss-of-function mutation. <i>Endocrine Connections</i> , 2019 , 8, 736-744	3.5	1
22	Mechanical Properties of Vertebral Trabeculae with Ageing Evaluated with Micro-CT 2007 , 463-473		1
21	Chinese Orthopaedic Research Society and its future focus on translational research. <i>Journal of Orthopaedic Translation</i> , 2016 , 7, 23-29	4.2	1
20	Best Performance Parameters of HR-pQCT to Predict Fragility Fracture: Systematic Review and Meta-Analysis. <i>Journal of Bone and Mineral Research</i> , 2021 ,	6.3	1
19	Biodegradable magnesium implant enhances angiogenesis and alleviates medication-related osteonecrosis of the jaw in rats.. <i>Journal of Orthopaedic Translation</i> , 2022 , 33, 153-161	4.2	1
18	Puerarin specifically disrupts osteoclast activation via blocking integrin-β Pyk2/Src/Cbl signaling pathway.. <i>Journal of Orthopaedic Translation</i> , 2022 , 33, 55-69	4.2	1
17	Contrast-Enhanced MRI and Micro-CT Adopted for Evaluation of a Lipid-Lowering and Anticoagulant Herbal Epimedium-Derived Phytoestrogenic Extract for Prevention of Steroid-Associated Osteonecrosis 2007 , 593-611		0

16	The causal effect of interleukin-17 on the risk of psoriatic arthritis: a Mendelian randomization study. <i>Rheumatology</i> , 2021 , 60, 1963-1973	3.9	0
15	Anti-inflammatory effects of Jingshu Keli capsule and its components on human synoviocyte MH7A cells. <i>Arthroplasty</i> , 2020 , 2, 7	0.7	
14	Freeze-dried and irradiated allograft bone combined with fresh autologous coagula promotes angiogenesis in an ectopic bone allograft implantation model. <i>Connective Tissue Research</i> , 2018 , 59, 233-244	3.2	4.4
13	Therapeutic RNAi targeting CKIP-1 as a potential bone anabolic strategy. <i>Bone</i> , 2010 , 47, S400	4.7	
12	Lack of evidence to support treatment with Icaritin for reversing established osteoporosis induced by ovariectomy in mice. <i>Bone</i> , 2010 , 47, S400-S401	4.7	
11	Age-dependent increase in intraosseous CKIP-1 and decrease in bone formation in female rats. <i>Bone</i> , 2010 , 47, S418	4.7	
10	Multiple osteolytic bone lesions 3 years after ovarian cancer: benign or malignant?. <i>Journal of Clinical Oncology</i> , 2011 , 29, e672-4	2.2	
9	Can Basic Fibroblast Growth Factor Pre-Treatment Enhance Mesenchymal Stem Cell Therapy in Undecorticated Posterior Spinal Fusion?. <i>Key Engineering Materials</i> , 2007 , 330-332, 1137-1140	0.4	
8	Mesenchymal Stem Cell Derived Osteogenic Cells Is Superior to Bone Marrow Aspirate Impregnated Biomaterial Complex in Posterior Spinal Fusion. <i>Key Engineering Materials</i> , 2007 , 330-332, 1149-1152	0.4	
7	Objective Quantification of Porous Structure in Orthopaedic Biomaterial Implants Using Micro Computed Tomography. <i>Key Engineering Materials</i> , 2007 , 334-335, 1205-1208	0.4	
6	A Potent Osteogenic Composite of Stem Cells Tricalcium Phosphate Ceramic Enhanced the Posterior Spinal Fusion. <i>Key Engineering Materials</i> , 2005 , 288-289, 39-42	0.4	
5	Bone Densitometries in Assessing Bone Mineral and Structural Profiles in Patients with Adolescent Idiopathic Scoliosis 2007 , 307-322		
4	Bio-imaging Technologies in Studying Bone-Biomaterial Interface: Applications in Experimental Spinal Fusion Model 2007 , 333-351		
3	Multiple Bio-imaging Modalities in Evaluation of Epimedium-Derived Phytoestrogenic Fraction for Prevention of Postmenopausal Osteoporosis 2007 , 485-504		
2	Areal and Volumetric Bone Densitometry in Evaluation of Tai Chi Chuan Exercise for Prevention of Postmenopausal Osteoporosis 2007 , 505-515		
1	Enhancement of Osteoporotic Bone Using Injectable Hydroxyapatite in OVX Goats Evaluated by Multi-imaging Modalities 2007 , 517-527		