Anita Ignatius

List of Publications by Year
in descending order

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288	11,405	34105 52	49909 87
papers	citations	h-index	g-index

308	308	308	12687
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fracture healing under healthy and inflammatory conditions. Nature Reviews Rheumatology, 2012, 8, 133-143.	8.0	904
2	Platelet lysate from whole blood-derived pooled platelet concentrates and apheresis-derived platelet concentrates for the isolation and expansion of human bone marrow mesenchymal stromal cells: production process, content and identification of active components. Cytotherapy, 2012, 14, 540-554.	0.7	246
3	Signal transduction pathways involved in mechanotransduction in bone cells. Biochemical and Biophysical Research Communications, 2006, 349, 1-5.	2.1	217
4	Decellularized Cartilage Matrix as a Novel Biomatrix for Cartilage Tissue-Engineering Applications. Tissue Engineering - Part A, 2012, 18, 2195-2209.	3.1	205
5	TSG-6 Released from Intradermally Injected Mesenchymal Stem Cells Accelerates Wound Healing and Reduces Tissue Fibrosis in Murine Full-Thickness Skin Wounds. Journal of Investigative Dermatology, 2014, 134, 526-537.	0.7	195
6	New Insights of an Old Defense System: Structure, Function, and Clinical Relevance of the Complement System. Molecular Medicine, 2011, 17, 317-329.	4.4	183
7	Bone formation in a long bone defect model using a platelet-rich plasma-loaded collagen scaffold. Biomaterials, 2006, 27, 1817-1823.	11.4	172
8	GMP-Compliant Isolation and Large-Scale Expansion of Bone Marrow-Derived MSC. PLoS ONE, 2012, 7, e43255.	2.5	156
9	Proliferation of human-derived osteoblast-like cells depends on the cycle number and frequency of uniaxial strain. Journal of Biomechanics, 2002, 35, 873-880.	2.1	152
10	Nanoparticles and their potential for application in bone. International Journal of Nanomedicine, 2012, 7, 4545.	6.7	146
11	Complement C3a and C5a modulate osteoclast formation and inflammatory response of osteoblasts in synergism with ILâ€1Î². Journal of Cellular Biochemistry, 2011, 112, 2594-2605.	2.6	142
12	Small animal bone healing models: Standards, tips, and pitfalls results of a consensus meeting. Bone, 2011, 49, 591-599.	2.9	141
13	Finite element modeling of soft tissues: Material models, tissue interaction and challenges. Clinical Biomechanics, 2014, 29, 363-372.	1.2	126
14	Non-union bone fractures. Nature Reviews Disease Primers, 2021, 7, 57.	30.5	122
15	In vivo degradation of low temperature calcium and magnesium phosphate ceramics in a heterotopic model. Acta Biomaterialia, 2011, 7, 3469-3475.	8.3	119
16	The crucial role of neutrophil granulocytes in bone fracture healing. , 2016, 32, 152-162.		117
17	Early, Full Weightbearing With Flexible Fixation Delays Fracture Healing. Clinical Orthopaedics and Related Research, 1996, 328, 194-202.	1.5	116
18	GMP-Compliant Isolation and Expansion of Bone Marrow-Derived MSCs in the Closed, Automated Device Quantum Cell Expansion System. Cell Transplantation, 2013, 22, 1981-2000.	2.5	115

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19	Primary stability and strain distribution of cementless hip stems as a function of implant design. Clinical Biomechanics, 2012, 27, 158-164.	1.2	113
20	Effect of Subchondral Drilling on the Microarchitecture of Subchondral Bone. American Journal of Sports Medicine, 2012, 40, 828-836.	4.2	109
21	Regulation of gene expression in intervertebral disc cells by low and high hydrostatic pressure. European Spine Journal, 2006, 15, 372-378.	2.2	100
22	Control of in vivo mineral bone cement degradation. Acta Biomaterialia, 2014, 10, 3279-3287.	8.3	100
23	Fracture healing in mice under controlled rigid and flexible conditions using an adjustable external fixator. Journal of Orthopaedic Research, 2010, 28, 1456-1462.	2.3	98
24	Accelerated aging phenotype in mice with conditional deficiency for mitochondrial superoxide dismutase in the connective tissue. Aging Cell, 2011, 10, 239-254.	6.7	96
25	Fabrication, mechanical and in vivo performance of polycaprolactone/tricalcium phosphate composite scaffolds. Acta Biomaterialia, 2012, 8, 3446-3456.	8.3	93
26	Bone regeneration capacity of magnesium phosphate cements in a large animal model. Acta Biomaterialia, 2018, 69, 352-361.	8.3	91
27	Neutrophils in Tissue Trauma of the Skin, Bone, and Lung: Two Sides of the Same Coin. Journal of Immunology Research, 2018, 2018, 1-12.	2.2	88
28	Early dynamization by reduced fixation stiffness does not improve fracture healing in a rat femoral osteotomy model. Journal of Orthopaedic Research, 2009, 27, 22-27.	2.3	85
29	The role of complement in trauma and fracture healing. Seminars in Immunology, 2013, 25, 73-78.	5.6	85
30	Effect of partial meniscectomy at the medial posterior horn on tibiofemoral contact mechanics and meniscal hoop strains in human knees. Journal of Orthopaedic Research, 2012, 30, 934-942.	2.3	82
31	Mechanical stimulation of human tendon stem/progenitor cells results in upregulation of matrix proteins, integrins and MMPs, and activation of p38 and ERK1/2 kinases. BMC Molecular Biology, 2015, 16, 6.	3.0	82
32	Distinct Effects of IL-6 Classic and Trans -Signaling in Bone Fracture Healing. American Journal of Pathology, 2018, 188, 474-490.	3.8	81
33	Calcium and vitamin D in bone fracture healing and post-traumatic bone turnover. , 2018, 35, 365-385.		80
34	Biomechanics of a short stem: In vitro primary stability and stress shielding of a conservative cementless hip stem. Journal of Orthopaedic Research, 2013, 31, 1180-1186.	2.3	79
35	Tenomodulin is Required for Tendon Endurance Running and Collagen I Fibril Adaptation to Mechanical Load. EBioMedicine, 2017, 20, 240-254.	6.1	78
36	Interactions of environmental conditions and mechanical loads have influence on matrix turnover by nucleus pulposus cells. Journal of Orthopaedic Research, 2012, 30, 112-121.	2.3	76

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37	A new metaphyseal bone defect model in osteoporotic rats to study biomaterials for the enhancement of bone healing in osteoporotic fractures. Acta Biomaterialia, 2013, 9, 7035-7042.	8.3	76
38	Estrogen receptor and Wnt signaling interact to regulate early gene expression in response to mechanical strain in osteoblastic cells. Biochemical and Biophysical Research Communications, 2010, 394, 755-759.	2.1	74
39	Molecular mechanisms of glucocorticoids on skeleton and bone regeneration after fracture. Journal of Molecular Endocrinology, 2018, 61, R75-R90.	2.5	74
40	A three-dimensional collagen matrix as a suitable culture system for the comparison of cyclic strain and hydrostatic pressure effects on intervertebral disc cells. Journal of Neurosurgery: Spine, 2005, 2, 457-465.	1.7	73
41	IL-1Î² Inhibits Human Osteoblast Migration. Molecular Medicine, 2013, 19, 36-42.	4.4	73
42	Processed xenogenic cartilage as innovative biomatrix for cartilage tissue engineering: effects on chondrocyte differentiation and function. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, E239-E251.	2.7	72
43	Complement involvement in bone homeostasis and bone disorders. Seminars in Immunology, 2018, 37, 53-65.	5.6	69
44	Resorbable polymer fibers for ligament augmentation. Journal of Biomedical Materials Research Part B, 2001, 58, 666-672.	3.1	67
45	Stress-relaxation response of human menisci under confined compression conditions. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 26, 68-80.	3.1	66
46	Metaphyseal fracture healing follows similar biomechanical rules as diaphyseal healing. Journal of Orthopaedic Research, 2011, 29, 425-432.	2.3	65
47	Mast Cells Are Critical Regulators of Bone Fractureâ€“Induced Inflammation and Osteoclast Formation and Activity. Journal of Bone and Mineral Research, 2017, 32, 2431-2444.	2.8	64
48	Experimental blunt chest trauma impairs fracture healing in rats. Journal of Orthopaedic Research, 2011, 29, 734-739.	2.3	63
49	Preliminary Investigations on Intradiscal Pressures during Daily Activities: An In Vivo Study Using the Merino Sheep. PLoS ONE, 2013, 8, e69610.	2.5	63
50	Biological and mechanical performance and degradation characteristics of calcium phosphate cements in large animals and humans. Acta Biomaterialia, 2020, 117, 1-20.	8.3	62
51	The Anaphylatoxin Receptor C5aR Is Present During Fracture Healing in Rats and Mediates Osteoblast Migration In Vitro. Journal of Trauma, 2011, 71, 952-960.	2.3	60
52	Late Dynamization by Reduced Fixation Stiffness Enhances Fracture Healing in a Rat Femoral Osteotomy Model. Journal of Orthopaedic Trauma, 2011, 25, 169-174.	1.4	59
53	Complement C5a Functions as a Master Switch for the pH Balance in Neutrophils Exerting Fundamental Immunometabolic Effects. Journal of Immunology, 2017, 198, 4846-4854.	0.8	58
54	The impact of low-magnitude high-frequency vibration on fracture healing is profoundly influenced by the oestrogen status in mice. DMM Disease Models and Mechanisms, 2015, 8, 93-104.	2.4	57

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55	Spatiotemporally Controlled Release of Rhoâ€inhibiting C3 Toxin from a Proteinâ€“DNA Hybrid Hydrogel for Targeted Inhibition of Osteoclast Formation and Activity. Advanced Healthcare Materials, 2017, 6, 1700392.	7.6	57
56	H2S during circulatory shock: Some unresolved questions. Nitric Oxide - Biology and Chemistry, 2014, 41, 48-61.	2.7	56
57	Piezo1 Inactivation in Chondrocytes Impairs Trabecular Bone Formation. Journal of Bone and Mineral Research, 2020, 36, 369-384.	2.8	55
58	Effects of Estrogen on Fracture Healing in Mice. Journal of Trauma, 2010, 69, 1259-1265.	2.3	53
59	Systemic inflammation induced by a thoracic trauma alters the cellular composition of the early fracture callus. Journal of Trauma and Acute Care Surgery, 2013, 74, 531-537.	2.1	53
60	In vivo performance of a novel silk fibroin scaffold for partial meniscal replacement in a sheep model. Knee Surgery, Sports Traumatology, Arthroscopy, 2015, 23, 2218-2229.	4.2	53
61	The Wnt Serpentine Receptor Frizzled-9 Regulates New Bone Formation in Fracture Healing. PLoS ONE, 2013, 8, e84232.	2.5	52
62	Delayed bone healing following high tibial osteotomy related to increased implant stiffness in locked plating. Injury, 2014, 45, 1648-1652.	1.7	52
63	Glucocorticoid Treatment of Ovariectomized Sheep Affects Mineral Density, Structure, and Mechanical Properties of Cancellous Bone. Journal of Bone and Mineral Research, 2003, 18, 2010-2015.	2.8	51
64	Temporary distraction and compression of a diaphyseal osteotomy accelerates bone healing. Journal of Orthopaedic Research, 2008, 26, 772-777.	2.3	51
65	Effect of functionalised fluorescence-labelled nanoparticles on mesenchymal stem cell differentiation. Biomaterials, 2010, 31, 2064-2071.	11.4	51
66	Hydrogels for nucleus replacementâ€”Facing the biomechanical challenge. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 14, 67-77.	3.1	51
67	Disadvantages of interfragmentary shear on fracture healingâ€”mechanical insights through numerical simulation. Journal of Orthopaedic Research, 2014, 32, 865-872.	2.3	51
68	Bone tissue engineering in osteoporosis. Maturitas, 2013, 75, 118-124.	2.4	50
69	Chronic psychosocial stress compromises the immune response and endochondral ossification during bone fracture healing via Î²-AR signaling. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8615-8622.	7.1	50
70	The Role of Mast Cells in Bone Metabolism and Bone Disorders. Frontiers in Immunology, 2020, 11, 163.	4.8	50
71	Subchondral bone influences chondrogenic differentiation and collagen production of human bone marrow-derived mesenchymal stem cells and articular chondrocytes. Arthritis Research and Therapy, 2014, 16, 453.	3.5	49
72	Complement C3 and C5 Deficiency Affects Fracture Healing. PLoS ONE, 2013, 8, e81341.	2.5	48

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73	Mouse Models in Bone FractureÂHealing Research. Current Molecular Biology Reports, 2016, 2, 101-111.	1.6	48
74	Numerical Simulation of Callus Healing for Optimization of Fracture Fixation Stiffness. PLoS ONE, 2014, 9, e101370.	2.5	47
75	Distinct frequency dependent effects of wholeâ€body vibration on nonâ€fractured bone and fracture healing in mice. Journal of Orthopaedic Research, 2014, 32, 1006-1013.	2.3	47
76	Neuroinflammation after Traumatic Brain Injury Is Enhanced in Activating Transcription Factor 3 Mutant Mice. Journal of Neurotrauma, 2018, 35, 2317-2329.	3.4	47
77	Comparative animal study of three ligament prostheses for the replacement of the anterior cruciate and medial collateral ligament. Biomaterials, 1996, 17, 977-982.	11.4	46
78	The protein tyrosine phosphatase RptpÎ¶ is expressed in differentiated osteoblasts and affects bone formation in mice. Bone, 2008, 42, 524-534.	2.9	45
79	Does complement play a role in bone development and regeneration?. Immunobiology, 2013, 218, 1-9.	1.9	45
80	Local detection of mechanically induced ATP release from bone cells with ATP microbiosensors. Biosensors and Bioelectronics, 2013, 44, 27-33.	10.1	45
81	Modulation of fixation stiffness from flexible to stiff in a rat model of bone healing. Monthly Notices of the Royal Astronomical Society: Letters, 2017, 88, 217-222.	3.3	45
82	Osseointegration of alumina with a bioactive coating under load-bearing and unloaded conditions. Biomaterials, 2005, 26, 2325-2332.	11.4	42
83	Prediction of fracture healing under axial loading, shear loading and bending is possible using distortional and dilatational strains as determining mechanical stimuli. Journal of the Royal Society Interface, 2013, 10, 20130389.	3.4	42
84	Differences of bone healing in metaphyseal defect fractures between osteoporotic and physiological bone in rats. Injury, 2014, 45, 487-493.	1.7	42
85	C5aRâ€antagonist significantly reduces the deleterious effect of a blunt chest trauma on fracture healing. Journal of Orthopaedic Research, 2012, 30, 581-586.	2.3	41
86	Pharmacological inhibition of IL-6 trans-signaling improves compromised fracture healing after severe trauma. Naunyn-Schmiedeberg's Archives of Pharmacology, 2018, 391, 523-536.	3.0	41
87	Newly Defined ATP-Binding Cassette Subfamily B Member 5 Positive Dermal Mesenchymal Stem Cells Promote Healing of Chronic Iron-Overload Wounds via Secretion of Interleukin-1 Receptor Antagonist. Stem Cells, 2019, 37, 1057-1074.	3.2	41
88	Medial meniscal displacement and strain in three dimensions under compressive loads: MR assessment. Journal of Magnetic Resonance Imaging, 2014, 40, 1181-1188.	3.4	40
89	Calcium and vitamin-D deficiency marginally impairs fracture healing but aggravates posttraumatic bone loss in osteoporotic mice. Scientific Reports, 2017, 7, 7223.	3.3	40
90	Mitogens are increased in the systemic circulation during bone callus healing. Journal of Orthopaedic Research, 2003, 21, 320-325.	2.3	39

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91	In vivo biofunctional evaluation of hydrogels for disc regeneration. European Spine Journal, 2014, 23, 19-26.	2.2	39
92	In vivo performance of novel soybean/gelatin-based bioactive and injectable hydroxyapatite foams. Acta Biomaterialia, 2015, 12, 242-249.	8.3	39
93	Strontium(II) and mechanical loading additively augment bone formation in calcium phosphate scaffolds. Journal of Orthopaedic Research, 2018, 36, 106-117.	2.3	39
94	The inflammatory phase of fracture healing is influenced by oestrogen status in mice. European Journal of Medical Research, 2017, 22, 23.	2.2	39
95	Inhibition of cortical and cancellous bone formation in glucocorticoid-treated OVX sheep. Bone, 2005, 37, 491-496.	2.9	38
96	A novel model to study metaphyseal bone healing under defined biomechanical conditions. Archives of Orthopaedic and Trauma Surgery, 2009, 129, 923-928.	2.4	38
97	Role of the Complement System in the Response to Orthopedic Biomaterials. International Journal of Molecular Sciences, 2018, 19, 3367.	4.1	38
98	Mechanical regulation of osteoclastic genes in human osteoblasts. Biochemical and Biophysical Research Communications, 2008, 368, 582-587.	2.1	37
99	The molecular fingerprint of lung inflammation after blunt chest trauma. European Journal of Medical Research, 2015, 20, 70.	2.2	37
100	Influence of Menopause on Inflammatory Cytokines during Murine and Human Bone Fracture Healing. International Journal of Molecular Sciences, 2018, 19, 2070.	4.1	37
101	Fracture Healing Is Delayed in Immunodeficient NOD/scidâ€ï»¿IL2RÎ³ï»¿cnull Mice. PLoS ONE, 2016, 11, e0147465	2.5	37
102	Effects of Multi-Deficiencies-Diet on Bone Parameters of Peripheral Bone in Ovariectomized Mature Rat. PLoS ONE, 2013, 8, e71665.	2.5	36
103	Effects of mechanical strain on human mesenchymal stem cells and ligament fibroblasts in a textured poly(l-lactide) scaffold for ligament tissue engineering. Journal of Materials Science: Materials in Medicine, 2012, 23, 2575-2582.	3.6	35
104	A Degenerative/Proinflammatory Intervertebral Disc Organ Culture: An Ex Vivo Model for Anti-inflammatory Drug and Cell Therapy. Tissue Engineering - Part C: Methods, 2016, 22, 8-19.	2.1	35
105	Complement receptors C5aR1 and C5aR2 act differentially during the early immune response after bone fracture but are similarly involved in bone repair. Scientific Reports, 2017, 7, 14061.	3.3	35
106	A New Experimental Polytrauma Model in Rats: Molecular Characterization of the Early Inflammatory Response. Mediators of Inflammation, 2012, 2012, 1-9.	3.0	33
107	Analgesia via blockade of NGF/TrkA signaling does not influence fracture healing in mice. Journal of Orthopaedic Research, 2015, 33, 1235-1241.	2.3	33
108	The SERM raloxifene improves diaphyseal fracture healing in mice. Journal of Bone and Mineral Metabolism, 2013, 31, 629-636.	2.7	32

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109	The mode of interfragmentary movement affects bone formation and revascularization after callus distraction. PLoS ONE, 2018, 13, e0202702.	2.5	32
110	Human mesenchymal progenitor cell responses to a novel textured poly(L-lactide) scaffold for ligament tissue engineering. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2007, 81B, 82-90.	3.4	31
111	Influence of low glucose supply on the regulation of gene expression by nucleus pulposus cells and their responsiveness to mechanical loading. Journal of Neurosurgery: Spine, 2010, 13, 535-542.	1.7	31
112	New perspectives on vitamin D food fortification based on a modeling of 25(OH)D concentrations. Nutrition Journal, 2013, 12, 151.	3.4	31
113	Osteoarthritic cartilage explants affect extracellular matrix production and composition in cocultured bone marrow-derived mesenchymal stem cells and articular chondrocytes. Stem Cell Research and Therapy, 2014, 5, 77.	5.5	31
114	Systemic treatment with the sphingosineâ€1â€phosphate analog FTY720 does not improve fracture healing in mice. Journal of Orthopaedic Research, 2013, 31, 1845-1850.	2.3	30
115	Comparison between Different Methods for Biomechanical Assessment of Ex Vivo Fracture Callus Stiffness in Small Animal Bone Healing Studies. PLoS ONE, 2015, 10, e0119603.	2.5	30
116	Midkine-deficiency increases the anabolic response of cortical bone to mechanical loading. Bone, 2011, 48, 945-951.	2.9	29
117	Osteogenic capacity of nanocrystalline bone cement in a weight-bearing defect at the ovine tibial metaphysis. International Journal of Nanomedicine, 2012, 7, 2883.	6.7	29
118	Exposure to 100% Oxygen Abolishes the Impairment of Fracture Healing after Thoracic Trauma. PLoS ONE, 2015, 10, e0131194.	2.5	29
119	The Role of the Intestinal Microbiome in Chronic Psychosocial Stress-Induced Pathologies in Male Mice. Frontiers in Behavioral Neuroscience, 2018, 12, 252.	2.0	29
120	Midkine-Deficiency Delays Chondrogenesis during the Early Phase of Fracture Healing in Mice. PLoS ONE, 2014, 9, e116282.	2.5	29
121	Glucocorticoid-treated sheep as a model for osteopenic trabecular bone in biomaterials research. Journal of Biomedical Materials Research Part B, 2003, 66A, 457-462.	3.1	28
122	Temporal Variation in Fixation Stiffness Affects Healing by Differential Cartilage Formation in a Rat Osteotomy Model. Clinical Orthopaedics and Related Research, 2011, 469, 3094-3101.	1.5	28
123	Role of Complement on Broken Surfaces After Trauma. Advances in Experimental Medicine and Biology, 2015, 865, 43-55.	1.6	28
124	Antioxidative therapy in an exÂvivo human cartilage trauma-model: attenuation of trauma-induced cell loss and ECM-destructive enzymes by N-acetyl cysteine. Osteoarthritis and Cartilage, 2016, 24, 2171-2180.	1.3	28
125	C5aR1 interacts with <scp>TLR</scp>2 in osteoblasts and stimulates the osteoclastâ€inducing chemokine <scp>CXCL</scp>10. Journal of Cellular and Molecular Medicine, 2018, 22, 6002-6014.	3.6	28
126	Differences in Fracture Healing Between Female and Male C57BL/6J Mice. Frontiers in Physiology, 2021, 12, 712494.	2.8	28

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127	Mechanical regulation of HB-GAM expression in bone cells. Biochemical and Biophysical Research Communications, 2004, 319, 951-958.	2.1	27
128	Mechanical Stimulation Alters Pleiotrophin and Aggrecan Expression by Human Intervertebral Disc Cells and Influences Their Capacity to Stimulate Endothelial Cell Migration. Spine, 2009, 34, 663-669.	2.0	27
129	Prediction of the Time Course of Callus Stiffness as a Function of Mechanical Parameters in Experimental Rat Fracture Healing Studies - A Numerical Study. PLoS ONE, 2014, 9, e115695.	2.5	27
130	Review of Animal Models of Comorbidities in Fractureâ€Healing Research. Journal of Orthopaedic Research, 2019, 37, 2491-2498.	2.3	27
131	Estrogen receptor Î±- (ERÎ±), but not ERÎ²-signaling, is crucially involved in mechanostimulation of bone fracture healing by whole-body vibration. Bone, 2018, 110, 11-20.	2.9	26
132	Degeneration alters the biomechanical properties and structural composition of lateral human menisci. Osteoarthritis and Cartilage, 2020, 28, 1482-1491.	1.3	26
133	Osteoblast-specific overexpression of complement receptor C5aR1 impairs fracture healing. PLoS ONE, 2017, 12, e0179512.	2.5	26
134	Accelerated bone regeneration through rational design of magnesium phosphate cements. Acta Biomaterialia, 2022, 145, 358-371.	8.3	26
135	Signal transduction pathways involved in mechanical regulation of HB-GAM expression in osteoblastic cells. Biochemical and Biophysical Research Communications, 2006, 342, 1070-1076.	2.1	25
136	Anterior Knee Laxity Increases Gapping of Posterior Horn Medial Meniscal Tears. American Journal of Sports Medicine, 2011, 39, 1749-1756.	4.2	25
137	Quantitative analyses of bone composition in acetylcholine receptor M3R and alpha7 knockout mice. Life Sciences, 2012, 91, 997-1002.	4.3	25
138	Blunt Chest Trauma in Mice after Cigarette Smoke-Exposure: Effects of Mechanical Ventilation with 100 % O2. PLoS ONE, 2015, 10, e0132810.	2.5	25
139	Antagonizing midkine accelerates fracture healing in mice by enhanced bone formation in the fracture callus. British Journal of Pharmacology, 2016, 173, 2237-2249.	5.4	25
140	Systemic mesenchymal stem cell administration enhances bone formation in fracture repair but not load-induced bone formation. , 2015, 29, 22-34.		25
141	A novel method for lateral callus distraction and its importance for the mechano-biology of bone formation. Bone, 2010, 47, 712-717.	2.9	24
142	The effect of both a thoracic trauma and a soft-tissue trauma on fracture healing in a rat model. Monthly Notices of the Royal Astronomical Society: Letters, 2011, 82, 223-227.	3.3	24
143	Increasing posterior tibial slope does not raise anterior cruciate ligament strain but decreases tibial rotation ability. Clinical Biomechanics, 2013, 28, 285-290.	1.2	24
144	Bone Matrix, Cellularity, and Structural Changes in a Rat Model with High-Turnover Osteoporosis Induced by Combined Ovariectomy and a Multiple-Deficient Diet. American Journal of Pathology, 2014, 184, 765-777.	3.8	24

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145	Biomechanical, structural and biological characterisation of a new silk fibroin scaffold for meniscal repair. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 86, 314-324.	3.1	24
146	Sheep model for osteoporosis: Sustainability and biomechanical relevance of low turnover osteoporosis induced by hypothalamicâ€“pituitary disconnection. Journal of Orthopaedic Research, 2013, 31, 1067-1074.	2.3	23
147	Induced global deletion of glucocorticoid receptor impairs fracture healing. FASEB Journal, 2018, 32, 2235-2245.	0.5	23
148	Molecular Interactions Between Human Cartilaginous Endplates and Nucleus Pulposus Cells. Spine, 2014, 39, 1355-1364.	2.0	22
149	Material properties of individual menisci and their attachments obtained through inverse FE-analysis. Journal of Biomechanics, 2015, 48, 1343-1349.	2.1	22
150	Friction properties of a new silk fibroin scaffold for meniscal replacement. Tribology International, 2017, 109, 586-592.	5.9	22
151	Chronic psychosocial stress disturbs long-bone growth in adolescent mice. DMM Disease Models and Mechanisms, 2017, 10, 1399-1409.	2.4	22
152	Phytic acid as alternative setting retarder enhanced biological performance of dicalcium phosphate cement in vitro. Scientific Reports, 2017, 7, 558.	3.3	22
153	Effects of low-magnitude high-frequency vibration on osteoblasts are dependent on estrogen receptor Î± signaling and cytoskeletal remodeling. Biochemical and Biophysical Research Communications, 2018, 503, 2678-2684.	2.1	22
154	Increased trabecular bone formation in mice lacking the growth factor midkine. Journal of Bone and Mineral Research, 2010, 25, 1724-1735.	2.8	21
155	Low turnover osteoporosis in sheep induced by hypothalamicâ€pituitary disconnection. Journal of Orthopaedic Research, 2012, 30, 1254-1262.	2.3	21
156	Optimization of intramedullary nailing by numerical simulation of fracture healing. Journal of Orthopaedic Research, 2012, 30, 569-573.	2.3	21
157	Evaluation of platelet-rich plasma and hydrostatic pressure regarding cell differentiation in nucleus pulposus tissue engineering. Journal of Tissue Engineering and Regenerative Medicine, 2013, 7, 244-252.	2.7	21
158	Osteoblast-Specific Krm2 Overexpression and Lrp5 Deficiency Have Different Effects on Fracture Healing in Mice. PLoS ONE, 2014, 9, e103250.	2.5	21
159	Inhibition of Midkine Augments Osteoporotic Fracture Healing. PLoS ONE, 2016, 11, e0159278.	2.5	21
160	Articular cartilage and meniscus reveal higher friction in swing phase than in stance phase under dynamic gait conditions. Scientific Reports, 2019, 9, 5785.	3.3	21
161	Release of the medial collateral ligament is mandatory in medial open-wedge high tibial osteotomy. Knee Surgery, Sports Traumatology, Arthroscopy, 2019, 27, 2917-2926.	4.2	21
162	Complement in traumaâ€”Traumatised complement?. British Journal of Pharmacology, 2021, 178, 2863-2879.	5.4	21

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163	Effects of Increased Bone Formation on Fracture Healing in Mice. Journal of Trauma, 2011, 70, 857-862.	2.3	20
164	Single impact trauma in human early-stage osteoarthritic cartilage: Implication of prostaglandin D2 but no additive effect of IL-1Î² on cell survival. International Journal of Molecular Medicine, 2011, 28, 271-7.	4.0	20
165	Improved Anchorage of Ti6Al4V Orthopaedic Bone Implants through Oligonucleotide Mediated Immobilization of BMP-2 in Osteoporotic Rats. PLoS ONE, 2014, 9, e86151.	2.5	20
166	Influence of Low-Magnitude High-Frequency Vibration on Bone Cells and Bone Regeneration. Frontiers in Bioengineering and Biotechnology, 2020, 8, 595139.	4.1	20
167	A small scale cell culture system to analyze mechanobiology using reporter gene constructs and polyurethane dishes. , 2010, 20, 344-355.		20
168	Forces acting on the anterior meniscotibial ligaments. Knee Surgery, Sports Traumatology, Arthroscopy, 2012, 20, 1488-1495.	4.2	19
169	Janus face of complement-driven neutrophil activation during sepsis. Seminars in Immunology, 2018, 37, 12-20.	5.6	19
170	Osteoarthritis-Related Degeneration Alters the Biomechanical Properties of Human Menisci Before the Articular Cartilage. Frontiers in Bioengineering and Biotechnology, 2021, 9, 659989.	4.1	19
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