Anita Ignatius

List of Publications by Citations

Source: https://exaly.com/author-pdf/4685070/anita-ignatius-publications-by-citations.pdf

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

 278
 8,362
 46
 76

 papers
 citations
 h-index
 g-index

 308
 9,896
 5
 6.09

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
278	Fracture healing under healthy and inflammatory conditions. <i>Nature Reviews Rheumatology</i> , 2012 , 8, 133-43	8.1	626
277	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. <i>Cytotherapy</i> , 2012 , 14, 540-	4.8 54	207
276	Signal transduction pathways involved in mechanotransduction in bone cells. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 349, 1-5	3.4	200
275	Decellularized cartilage matrix as a novel biomatrix for cartilage tissue-engineering applications. <i>Tissue Engineering - Part A</i> , 2012 , 18, 2195-209	3.9	170
274	New insights of an old defense system: structure, function, and clinical relevance of the complement system. <i>Molecular Medicine</i> , 2011 , 17, 317-29	6.2	162
273	Bone formation in a long bone defect model using a platelet-rich plasma-loaded collagen scaffold. <i>Biomaterials</i> , 2006 , 27, 1817-23	15.6	154
272	TSG-6 released from intradermally injected mesenchymal stem cells accelerates wound healing and reduces tissue fibrosis in murine full-thickness skin wounds. <i>Journal of Investigative Dermatology</i> , 2014 , 134, 526-537	4.3	153
271	Proliferation of human-derived osteoblast-like cells depends on the cycle number and frequency of uniaxial strain. <i>Journal of Biomechanics</i> , 2002 , 35, 873-80	2.9	139
270	GMP-compliant isolation and large-scale expansion of bone marrow-derived MSC. <i>PLoS ONE</i> , 2012 , 7, e43255	3.7	136
269	Small animal bone healing models: standards, tips, and pitfalls results of a consensus meeting. <i>Bone</i> , 2011 , 49, 591-9	4.7	118
268	Complement C3a and C5a modulate osteoclast formation and inflammatory response of osteoblasts in synergism with IL-1 <i>Journal of Cellular Biochemistry</i> , 2011 , 112, 2594-605	4.7	116
267	Nanoparticles and their potential for application in bone. <i>International Journal of Nanomedicine</i> , 2012 , 7, 4545-57	7.3	110
266	Finite element modeling of soft tissues: material models, tissue interaction and challenges. <i>Clinical Biomechanics</i> , 2014 , 29, 363-72	2.2	94
265	Primary stability and strain distribution of cementless hip stems as a function of implant design. <i>Clinical Biomechanics</i> , 2012 , 27, 158-64	2.2	94
264	Effect of subchondral drilling on the microarchitecture of subchondral bone: analysis in a large animal model at 6 months. <i>American Journal of Sports Medicine</i> , 2012 , 40, 828-36	6.8	93
263	GMP-compliant isolation and expansion of bone marrow-derived MSCs in the closed, automated device quantum cell expansion system. <i>Cell Transplantation</i> , 2013 , 22, 1981-2000	4	92
262	Regulation of gene expression in intervertebral disc cells by low and high hydrostatic pressure. <i>European Spine Journal</i> , 2006 , 15 Suppl 3, S372-8	2.7	91

(2011-1996)

261	Early, full weightbearing with flexible fixation delays fracture healing. <i>Clinical Orthopaedics and Related Research</i> , 1996 , 194-202	2.2	89	
260	In vivo degradation of low temperature calcium and magnesium phosphate ceramics in a heterotopic model. <i>Acta Biomaterialia</i> , 2011 , 7, 3469-75	10.8	86	
259	Fabrication, mechanical and in vivo performance of polycaprolactone/tricalcium phosphate composite scaffolds. <i>Acta Biomaterialia</i> , 2012 , 8, 3446-56	10.8	83	
258	Fracture healing in mice under controlled rigid and flexible conditions using an adjustable external fixator. <i>Journal of Orthopaedic Research</i> , 2010 , 28, 1456-62	3.8	80	
257	Control of in vivo mineral bone cement degradation. <i>Acta Biomaterialia</i> , 2014 , 10, 3279-87	10.8	79	
256	The crucial role of neutrophil granulocytes in bone fracture healing. <i>European Cells and Materials</i> , 2016 , 32, 152-62	4.3	77	
255	Accelerated aging phenotype in mice with conditional deficiency for mitochondrial superoxide dismutase in the connective tissue. <i>Aging Cell</i> , 2011 , 10, 239-54	9.9	73	
254	The role of complement in trauma and fracture healing. Seminars in Immunology, 2013, 25, 73-8	10.7	68	
253	Early dynamization by reduced fixation stiffness does not improve fracture healing in a rat femoral osteotomy model. <i>Journal of Orthopaedic Research</i> , 2009 , 27, 22-7	3.8	68	
252	Biomechanics of a short stem: In vitro primary stability and stress shielding of a conservative cementless hip stem. <i>Journal of Orthopaedic Research</i> , 2013 , 31, 1180-6	3.8	66	
251	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. <i>BMC Molecular Biology</i> , 2015 , 16, 6	4.5	65	
250	Effect of partial meniscectomy at the medial posterior horn on tibiofemoral contact mechanics and meniscal hoop strains in human knees. <i>Journal of Orthopaedic Research</i> , 2012 , 30, 934-42	3.8	65	
249	Interactions of environmental conditions and mechanical loads have influence on matrix turnover by nucleus pulposus cells. <i>Journal of Orthopaedic Research</i> , 2012 , 30, 112-21	3.8	64	
248	A new metaphyseal bone defect model in osteoporotic rats to study biomaterials for the enhancement of bone healing in osteoporotic fractures. <i>Acta Biomaterialia</i> , 2013 , 9, 7035-42	10.8	64	
247	A three-dimensional collagen matrix as a suitable culture system for the comparison of cyclic strain and hydrostatic pressure effects on intervertebral disc cells. <i>Journal of Neurosurgery: Spine</i> , 2005 , 2, 45	7 - 65	64	
246	Estrogen receptor and Wnt signaling interact to regulate early gene expression in response to mechanical strain in osteoblastic cells. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 394, 755-9	3.4	62	
245	Processed xenogenic cartilage as innovative biomatrix for cartilage tissue engineering: effects on chondrocyte differentiation and function. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015 , 9, E239-51	4.4	58	
244	Experimental blunt chest trauma impairs fracture healing in rats. <i>Journal of Orthopaedic Research</i> , 2011 , 29, 734-9	3.8	57	

243	Resorbable polymer fibers for ligament augmentation. <i>Journal of Biomedical Materials Research Part B</i> , 2001 , 58, 666-72		57
242	Metaphyseal fracture healing follows similar biomechanical rules as diaphyseal healing. <i>Journal of Orthopaedic Research</i> , 2011 , 29, 425-32	3.8	54
241	Distinct Effects of IL-6 Classic and Trans-Signaling in Bone Fracture Healing. <i>American Journal of Pathology</i> , 2018 , 188, 474-490	5.8	54
240	Tenomodulin is Required for Tendon Endurance Running and Collagen I Fibril Adaptation to Mechanical Load. <i>EBioMedicine</i> , 2017 , 20, 240-254	8.8	53
239	The anaphylatoxin receptor C5aR is present during fracture healing in rats and mediates osteoblast migration in vitro. <i>Journal of Trauma</i> , 2011 , 71, 952-60		53
238	Preliminary investigations on intradiscal pressures during daily activities: an in vivo study using the merino sheep. <i>PLoS ONE</i> , 2013 , 8, e69610	3.7	53
237	IL-1[Inhibits human osteoblast migration. <i>Molecular Medicine</i> , 2013 , 19, 36-42	6.2	52
236	Stress-relaxation response of human menisci under confined compression conditions. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013 , 26, 68-80	4.1	51
235	Neutrophils in Tissue Trauma of the Skin, Bone, and Lung: Two Sides of the Same Coin. <i>Journal of Immunology Research</i> , 2018 , 2018, 8173983	4.5	48
234	H2S during circulatory shock: some unresolved questions. <i>Nitric Oxide - Biology and Chemistry</i> , 2014 , 41, 48-61	5	47
233	Hydrogels for nucleus replacementfacing the biomechanical challenge. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 14, 67-77	4.1	47
232	The impact of low-magnitude high-frequency vibration on fracture healing is profoundly influenced by the oestrogen status in mice. <i>DMM Disease Models and Mechanisms</i> , 2015 , 8, 93-104	4.1	46
231	Late dynamization by reduced fixation stiffness enhances fracture healing in a rat femoral osteotomy model. <i>Journal of Orthopaedic Trauma</i> , 2011 , 25, 169-74	3.1	45
230	In vivo performance of a novel silk fibroin scaffold for partial meniscal replacement in a sheep model. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2015 , 23, 2218-2229	5.5	43
229	Bone regeneration capacity of magnesium phosphate cements in a large animal model. <i>Acta Biomaterialia</i> , 2018 , 69, 352-361	10.8	43
228	Complement involvement in bone homeostasis and bone disorders. <i>Seminars in Immunology</i> , 2018 , 37, 53-65	10.7	43
227	Calcium and vitamin D in bone fracture healing and post-traumatic bone turnover. <i>European Cells and Materials</i> , 2018 , 35, 365-385	4.3	43
226	Effect of functionalised fluorescence-labelled nanoparticles on mesenchymal stem cell differentiation. <i>Biomaterials</i> , 2010 , 31, 2064-71	15.6	43

(2016-2013)

225	Systemic inflammation induced by a thoracic trauma alters the cellular composition of the early fracture callus. <i>Journal of Trauma and Acute Care Surgery</i> , 2013 , 74, 531-7	3.3	42
224	Effects of estrogen on fracture healing in mice. <i>Journal of Trauma</i> , 2010 , 69, 1259-65		42
223	Comparative animal study of three ligament prostheses for the replacement of the anterior cruciate and medial collateral ligament. <i>Biomaterials</i> , 1996 , 17, 977-82	15.6	42
222	Delayed bone healing following high tibial osteotomy related to increased implant stiffness in locked plating. <i>Injury</i> , 2014 , 45, 1648-52	2.5	41
221	Bone tissue engineering in osteoporosis. <i>Maturitas</i> , 2013 , 75, 118-24	5	41
220	Temporary distraction and compression of a diaphyseal osteotomy accelerates bone healing. Journal of Orthopaedic Research, 2008 , 26, 772-7	3.8	41
219	Osseointegration of alumina with a bioactive coating under load-bearing and unloaded conditions. <i>Biomaterials</i> , 2005 , 26, 2325-32	15.6	40
218	Local detection of mechanically induced ATP release from bone cells with ATP microbiosensors. <i>Biosensors and Bioelectronics</i> , 2013 , 44, 27-33	11.8	39
217	Glucocorticoid treatment of ovariectomized sheep affects mineral density, structure, and mechanical properties of cancellous bone. <i>Journal of Bone and Mineral Research</i> , 2003 , 18, 2010-5	6.3	39
216	Does complement play a role in bone development and regeneration?. <i>Immunobiology</i> , 2013 , 218, 1-9	3.4	38
215	Spatiotemporally Controlled Release of Rho-Inhibiting C3 Toxin from a Protein-DNA Hybrid Hydrogel for Targeted Inhibition of Osteoclast Formation and Activity. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1700392	10.1	38
214	Complement C3 and C5 deficiency affects fracture healing. <i>PLoS ONE</i> , 2013 , 8, e81341	3.7	38
213	C5aR-antagonist significantly reduces the deleterious effect of a blunt chest trauma on fracture healing. <i>Journal of Orthopaedic Research</i> , 2012 , 30, 581-6	3.8	37
212	Disadvantages of interfragmentary shear on fracture healingmechanical insights through numerical simulation. <i>Journal of Orthopaedic Research</i> , 2014 , 32, 865-72	3.8	37
211	Distinct frequency dependent effects of whole-body vibration on non-fractured bone and fracture healing in mice. <i>Journal of Orthopaedic Research</i> , 2014 , 32, 1006-13	3.8	37
210	The Wnt serpentine receptor Frizzled-9 regulates new bone formation in fracture healing. <i>PLoS ONE</i> , 2013 , 8, e84232	3.7	37
209	Molecular mechanisms of glucocorticoids on skeleton and bone regeneration after fracture. Journal of Molecular Endocrinology, 2018 , 61, R75-R90	4.5	36

207	Mast Cells Are Critical Regulators of Bone Fracture-Induced Inflammation and Osteoclast Formation and Activity. <i>Journal of Bone and Mineral Research</i> , 2017 , 32, 2431-2444	6.3	35
206	Subchondral bone influences chondrogenic differentiation and collagen production of human bone marrow-derived mesenchymal stem cells and articular chondrocytes. <i>Arthritis Research and Therapy</i> , 2014 , 16, 453	5.7	35
205	Complement C5a Functions as a Master Switch for the pH Balance in Neutrophils Exerting Fundamental Immunometabolic Effects. <i>Journal of Immunology</i> , 2017 , 198, 4846-4854	5.3	34
204	Numerical simulation of callus healing for optimization of fracture fixation stiffness. <i>PLoS ONE</i> , 2014 , 9, e101370	3.7	34
203	Prediction of fracture healing under axial loading, shear loading and bending is possible using distortional and dilatational strains as determining mechanical stimuli. <i>Journal of the Royal Society Interface</i> , 2013 , 10, 20130389	4.1	34
202	Mechanical regulation of osteoclastic genes in human osteoblasts. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 368, 582-7	3.4	34
201	Inhibition of cortical and cancellous bone formation in glucocorticoid-treated OVX sheep. <i>Bone</i> , 2005 , 37, 491-6	4.7	34
200	The protein tyrosine phosphatase Rptpzeta is expressed in differentiated osteoblasts and affects bone formation in mice. <i>Bone</i> , 2008 , 42, 524-34	4.7	33
199	Differences of bone healing in metaphyseal defect fractures between osteoporotic and physiological bone in rats. <i>Injury</i> , 2014 , 45, 487-93	2.5	32
198	A new experimental polytrauma model in rats: molecular characterization of the early inflammatory response. <i>Mediators of Inflammation</i> , 2012 , 2012, 890816	4.3	32
197	In vivo performance of novel soybean/gelatin-based bioactive and injectable hydroxyapatite foams. <i>Acta Biomaterialia</i> , 2015 , 12, 242-249	10.8	30
196	Modulation of fixation stiffness from flexible to stiff in a rat model of bone healing. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017 , 88, 217-222	4.3	30
195	Medial meniscal displacement and strain in three dimensions under compressive loads: MR assessment. <i>Journal of Magnetic Resonance Imaging</i> , 2014 , 40, 1181-8	5.6	30
194	Effects of mechanical strain on human mesenchymal stem cells and ligament fibroblasts in a textured poly(L-lactide) scaffold for ligament tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2012 , 23, 2575-82	4.5	30
193	The molecular fingerprint of lung inflammation after blunt chest trauma. <i>European Journal of Medical Research</i> , 2015 , 20, 70	4.8	29
192	In vivo biofunctional evaluation of hydrogels for disc regeneration. <i>European Spine Journal</i> , 2014 , 23, 19-26	2.7	29
191	Mitogens are increased in the systemic circulation during bone callus healing. <i>Journal of Orthopaedic Research</i> , 2003 , 21, 320-5	3.8	29
190	Neuroinflammation after Traumatic Brain Injury Is Enhanced in Activating Transcription Factor 3 Mutant Mice. <i>Journal of Neurotrauma</i> , 2018 , 35, 2317-2329	5.4	28

(2015-2016)

189	A Degenerative/Proinflammatory Intervertebral Disc Organ Culture: An Ex Vivo Model for Anti-inflammatory Drug and Cell Therapy. <i>Tissue Engineering - Part C: Methods</i> , 2016 , 22, 8-19	2.9	28	
188	New perspectives on vitamin D food fortification based on a modeling of 25(OH)D concentrations. <i>Nutrition Journal</i> , 2013 , 12, 151	4.3	28	
187	The inflammatory phase of fracture healing is influenced by oestrogen status in mice. <i>European Journal of Medical Research</i> , 2017 , 22, 23	4.8	27	
186	Pharmacological inhibition of IL-6 trans-signaling improves compromised fracture healing after severe trauma. <i>Naunyn-Schmiedebergjs Archives of Pharmacology</i> , 2018 , 391, 523-536	3.4	27	
185	Influence of low glucose supply on the regulation of gene expression by nucleus pulposus cells and their responsiveness to mechanical loading. <i>Journal of Neurosurgery: Spine</i> , 2010 , 13, 535-42	2.8	27	
184	Midkine-deficiency delays chondrogenesis during the early phase of fracture healing in mice. <i>PLoS ONE</i> , 2014 , 9, e116282	3.7	27	
183	Fracture Healing Is Delayed in Immunodeficient NOD/scid- IL2R[tnull Mice. PLoS ONE, 2016, 11, e01474	l6 5 .7	27	
182	A novel model to study metaphyseal bone healing under defined biomechanical conditions. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2009 , 129, 923-8	3.6	26	
181	Osteogenic capacity of nanocrystalline bone cement in a weight-bearing defect at the ovine tibial metaphysis. <i>International Journal of Nanomedicine</i> , 2012 , 7, 2883-9	7.3	25	
180	Human mesenchymal progenitor cell responses to a novel textured poly(L-lactide) scaffold for ligament tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007 , 81, 82-90	3.5	25	
179	Mechanical regulation of HB-GAM expression in bone cells. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 319, 951-8	3.4	25	
178	Role of the Complement System in the Response to Orthopedic Biomaterials. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	25	
177	Estrogen receptor [](ER]] but not ER: ignaling, is crucially involved in mechanostimulation of bone fracture healing by whole-body vibration. <i>Bone</i> , 2018 , 110, 11-20	4.7	24	
176	Mechanical stimulation alters pleiotrophin and aggrecan expression by human intervertebral disc cells and influences their capacity to stimulate endothelial migration. <i>Spine</i> , 2009 , 34, 663-9	3.3	24	
175	Effects of multi-deficiencies-diet on bone parameters of peripheral bone in ovariectomized mature rat. <i>PLoS ONE</i> , 2013 , 8, e71665	3.7	24	
174	Osteoarthritic cartilage explants affect extracellular matrix production and composition in cocultured bone marrow-derived mesenchymal stem cells and articular chondrocytes. <i>Stem Cell Research and Therapy</i> , 2014 , 5, 77	8.3	23	
173	Calcium and vitamin-D deficiency marginally impairs fracture healing but aggravates posttraumatic bone loss in osteoporotic mice. <i>Scientific Reports</i> , 2017 , 7, 7223	4.9	23	
172	Role of Complement on Broken Surfaces After Trauma. <i>Advances in Experimental Medicine and Biology</i> , 2015 , 865, 43-55	3.6	23	

171	Prediction of the time course of callus stiffness as a function of mechanical parameters in experimental rat fracture healing studiesa numerical study. <i>PLoS ONE</i> , 2014 , 9, e115695	3.7	23
170	Midkine-deficiency increases the anabolic response of cortical bone to mechanical loading. <i>Bone</i> , 2011 , 48, 945-51	4.7	23
169	The effect of both a thoracic trauma and a soft-tissue trauma on fracture healing in a rat model. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2011 , 82, 223-7	4.3	23
168	Glucocorticoid-treated sheep as a model for osteopenic trabecular bone in biomaterials research. Journal of Biomedical Materials Research Part B, 2003 , 66, 457-62		23
167	Systemic mesenchymal stem cell administration enhances bone formation in fracture repair but not load-induced bone formation. <i>European Cells and Materials</i> , 2015 , 29, 22-34	4.3	23
166	Influence of Menopause on Inflammatory Cytokines during Murine and Human Bone Fracture Healing. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	22
165	Analgesia via blockade of NGF/TrkA signaling does not influence fracture healing in mice. <i>Journal of Orthopaedic Research</i> , 2015 , 33, 1235-41	3.8	22
164	Systemic treatment with the sphingosine-1-phosphate analog FTY720 does not improve fracture healing in mice. <i>Journal of Orthopaedic Research</i> , 2013 , 31, 1845-50	3.8	22
163	Temporal variation in fixation stiffness affects healing by differential cartilage formation in a rat osteotomy model. <i>Clinical Orthopaedics and Related Research</i> , 2011 , 469, 3094-101	2.2	22
162	Comparison between different methods for biomechanical assessment of ex vivo fracture callus stiffness in small animal bone healing studies. <i>PLoS ONE</i> , 2015 , 10, e0119603	3.7	22
161	The Role of Mast Cells in Bone Metabolism and Bone Disorders. <i>Frontiers in Immunology</i> , 2020 , 11, 163	8.4	22
160	Chronic psychosocial stress compromises the immune response and endochondral ossification during bone fracture healing via EAR signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 8615-8622	11.5	21
159	The SERM raloxifene improves diaphyseal fracture healing in mice. <i>Journal of Bone and Mineral Metabolism</i> , 2013 , 31, 629-36	2.9	21
158	Exposure to 100% Oxygen Abolishes the Impairment of Fracture Healing after Thoracic Trauma. <i>PLoS ONE</i> , 2015 , 10, e0131194	3.7	21
157	A novel method for lateral callus distraction and its importance for the mechano-biology of bone formation. <i>Bone</i> , 2010 , 47, 712-7	4.7	21
156	Anterior knee laxity increases gapping of posterior horn medial meniscal tears. <i>American Journal of Sports Medicine</i> , 2011 , 39, 1749-55	6.8	21
155	Strontium(II) and mechanical loading additively augment bone formation in calcium phosphate scaffolds. <i>Journal of Orthopaedic Research</i> , 2018 , 36, 106-117	3.8	20
154	Blunt Chest Trauma in Mice after Cigarette Smoke-Exposure: Effects of Mechanical Ventilation with 100% O2. <i>PLoS ONE</i> , 2015 , 10, e0132810	3.7	20

(2021-2010)

153	A small scale cell culture system to analyze mechanobiology using reporter gene constructs and polyurethane dishes. <i>European Cells and Materials</i> , 2010 , 20, 344-55	4.3	20	
152	Complement receptors C5aR1 and C5aR2 act differentially during the early immune response after bone fracture but are similarly involved in bone repair. <i>Scientific Reports</i> , 2017 , 7, 14061	4.9	19	
151	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. <i>Stem Cells</i> , 2019 , 37, 1057-1074	5.8	19	
150	Antagonizing midkine accelerates fracture healing in mice by enhanced bone formation in the fracture callus. <i>British Journal of Pharmacology</i> , 2016 , 173, 2237-49	8.6	19	
149	Bone matrix, cellularity, and structural changes in a rat model with high-turnover osteoporosis induced by combined ovariectomy and a multiple-deficient diet. <i>American Journal of Pathology</i> , 2014 , 184, 765-77	5.8	19	
148	Molecular interactions between human cartilaginous endplates and nucleus pulposus cells: a preliminary investigation. <i>Spine</i> , 2014 , 39, 1355-64	3.3	19	
147	Quantitative analyses of bone composition in acetylcholine receptor M3R and alpha7 knockout mice. <i>Life Sciences</i> , 2012 , 91, 997-1002	6.8	19	
146	Sheep model for osteoporosis: sustainability and biomechanical relevance of low turnover osteoporosis induced by hypothalamic-pituitary disconnection. <i>Journal of Orthopaedic Research</i> , 2013 , 31, 1067-74	3.8	19	
145	Improved anchorage of Ti6Al4V orthopaedic bone implants through oligonucleotide mediated immobilization of BMP-2 in osteoporotic rats. <i>PLoS ONE</i> , 2014 , 9, e86151	3.7	18	
144	Single impact trauma in human early-stage osteoarthritic cartilage: implication of prostaglandin D2 but no additive effect of IL-1[bn cell survival. <i>International Journal of Molecular Medicine</i> , 2011 , 28, 271	-7 ^{4·4}	18	
143	Signal transduction pathways involved in mechanical regulation of HB-GAM expression in osteoblastic cells. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 342, 1070-6	3.4	18	
142	Review of Animal Models of Comorbidities in Fracture-Healing Research. <i>Journal of Orthopaedic Research</i> , 2019 , 37, 2491-2498	3.8	17	
141	The mode of interfragmentary movement affects bone formation and revascularization after callus distraction. <i>PLoS ONE</i> , 2018 , 13, e0202702	3.7	17	
140	Evaluation of platelet-rich plasma and hydrostatic pressure regarding cell differentiation in nucleus pulposus tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2013 , 7, 244-52	4.4	17	
139	Increasing posterior tibial slope does not raise anterior cruciate ligament strain but decreases tibial rotation ability. <i>Clinical Biomechanics</i> , 2013 , 28, 285-90	2.2	17	
138	Phytic acid as alternative setting retarder enhanced biological performance of dicalcium phosphate cement in vitro. <i>Scientific Reports</i> , 2017 , 7, 558	4.9	17	
137	Increased trabecular bone formation in mice lacking the growth factor midkine. <i>Journal of Bone and Mineral Research</i> , 2010 , 25, 1724-35	6.3	17	
136	Piezo1 Inactivation in Chondrocytes Impairs Trabecular Bone Formation. <i>Journal of Bone and Mineral Research</i> , 2021 , 36, 369-384	6.3	17	

135	Antioxidative therapy in an extivo human cartilage trauma-model: attenuation of trauma-induced cell loss and ECM-destructive enzymes by N-acetyl cysteine. <i>Osteoarthritis and Cartilage</i> , 2016 , 24, 2171-	.2 7 80	16
134	Osteoblast-specific Krm2 overexpression and Lrp5 deficiency have different effects on fracture healing in mice. <i>PLoS ONE</i> , 2014 , 9, e103250	3.7	16
133	Low turnover osteoporosis in sheep induced by hypothalamic-pituitary disconnection. <i>Journal of Orthopaedic Research</i> , 2012 , 30, 1254-62	3.8	16
132	Effects of increased bone formation on fracture healing in mice. <i>Journal of Trauma</i> , 2011 , 70, 857-62		16
131	Influence of receptor activator of nuclear factor (NF)-kappaB ligand (RANKL), macrophage-colony stimulating factor (M-CSF) and fetal calf serum on human osteoclast formation and activity. <i>Journal of Molecular Histology</i> , 2007 , 38, 341-5	3.3	16
130	Osteoblast-specific overexpression of complement receptor C5aR1 impairs fracture healing. <i>PLoS ONE</i> , 2017 , 12, e0179512	3.7	16
129	Induced global deletion of glucocorticoid receptor impairs fracture healing. <i>FASEB Journal</i> , 2018 , 32, 2235-2245	0.9	16
128	Friction properties of a new silk fibroin scaffold for meniscal replacement. <i>Tribology International</i> , 2017 , 109, 586-592	4.9	15
127	Biomechanical, structural and biological characterisation of a new silk fibroin scaffold for meniscal repair. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 86, 314-324	4.1	15
126	Optimization of intramedullary nailing by numerical simulation of fracture healing. <i>Journal of Orthopaedic Research</i> , 2012 , 30, 569-73	3.8	15
125	New perspectives on vitamin D sources in Germany based on a novel mathematical bottom-up model of 25(OH)D serum concentrations. <i>European Journal of Nutrition</i> , 2013 , 52, 1733-42	5.2	15
124	Inhibition of Midkine Augments Osteoporotic Fracture Healing. <i>PLoS ONE</i> , 2016 , 11, e0159278	3.7	15
123	The Role of the Intestinal Microbiome in Chronic Psychosocial Stress-Induced Pathologies in Male Mice. <i>Frontiers in Behavioral Neuroscience</i> , 2018 , 12, 252	3.5	15
122	Mg:Ca ratio as regulating factor for osteoclastic in vitro resorption of struvite biocements. <i>Materials Science and Engineering C</i> , 2017 , 73, 111-119	8.3	14
121	Impaired extracellular matrix structure resulting from malnutrition in ovariectomized mature rats. <i>Histochemistry and Cell Biology</i> , 2015 , 144, 491-507	2.4	14
120	Effects of low-magnitude high-frequency vibration on osteoblasts are dependent on estrogen receptor Bignaling and cytoskeletal remodeling. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 503, 2678-2684	3.4	14
119	Conversion from external fixator to intramedullary nail causes a second hit and impairs fracture healing in a severe trauma model. <i>Journal of Orthopaedic Research</i> , 2013 , 31, 465-71	3.8	14
118	Direct and indirect effects of functionalised fluorescence-labelled nanoparticles on human osteoclast formation and activity. <i>Biomaterials</i> , 2011 , 32, 1706-14	15.6	14

(2015-2020)

117	Biological and mechanical performance and degradation characteristics of calcium phosphate cements in large animals and humans. <i>Acta Biomaterialia</i> , 2020 , 117, 1-20	10.8	14
116	Chronic psychosocial stress disturbs long-bone growth in adolescent mice. <i>DMM Disease Models and Mechanisms</i> , 2017 , 10, 1399-1409	4.1	13
115	Material properties of individual menisci and their attachments obtained through inverse FE-analysis. <i>Journal of Biomechanics</i> , 2015 , 48, 1343-9	2.9	13
114	Influence of partial meniscectomy on attachment forces, superficial strain and contact mechanics in porcine knee joints. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2015 , 23, 74-82	5.5	13
113	Biomechanics of a cemented short stem: Standard vs. line-to-line cementation techniques. A biomechanical in-vitro study involving six osteoporotic pairs of human cadaver femurs. <i>Clinical Biomechanics</i> , 2018 , 52, 86-94	2.2	13
112	Phosphorylation and turnover of paxillin in focal contacts is controlled by force and defines the dynamic state of the adhesion site. <i>Cytoskeleton</i> , 2015 , 72, 101-12	2.4	13
111	Release of the medial collateral ligament is mandatory in medial open-wedge high tibial osteotomy. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2019 , 27, 2917-2926	5.5	13
110	Non-union bone fractures. <i>Nature Reviews Disease Primers</i> , 2021 , 7, 57	51.1	13
109	Janus face of complement-driven neutrophil activation during sepsis. <i>Seminars in Immunology</i> , 2018 , 37, 12-20	10.7	12
108	Forces acting on the anterior meniscotibial ligaments. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2012 , 20, 1488-95	5.5	12
107	Metaphyseal fracture healing in a sheep model of low turnover osteoporosis induced by hypothalamic-pituitary disconnection (HPD). <i>Journal of Orthopaedic Research</i> , 2013 , 31, 1851-7	3.8	12
106	Quantification of calcifications in endarterectomy samples by means of high-resolution ultra-short echo time imaging. <i>Investigative Radiology</i> , 2010 , 45, 109-13	10.1	12
105	Evaluation of high-resolution In Vivo MRI for longitudinal analysis of endochondral fracture healing in mice. <i>PLoS ONE</i> , 2017 , 12, e0174283	3.7	12
104	Novel systems for the application of isolated tensile, compressive, and shearing stimulation of distraction callus tissue. <i>PLoS ONE</i> , 2017 , 12, e0189432	3.7	12
103	C5aR1 interacts with TLR2 in osteoblasts and stimulates the osteoclast-inducing chemokine CXCL10. <i>Journal of Cellular and Molecular Medicine</i> , 2018 , 22, 6002-6014	5.6	12
102	Autologous Mesenchymal Stroma Cells Are Superior to Allogeneic Ones in Bone Defect Regeneration. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	12
101	Articular cartilage and meniscus reveal higher friction in swing phase than in stance phase under dynamic gait conditions. <i>Scientific Reports</i> , 2019 , 9, 5785	4.9	11
100	Small changes in bone structure of female I nicotinic acetylcholine receptor knockout mice. <i>BMC Musculoskeletal Disorders</i> , 2015 , 16, 5	2.8	11

99	Mechanical properties and morphological analysis of the transitional zone between meniscal body and ligamentous meniscal attachments. <i>Journal of Biomechanics</i> , 2015 , 48, 1350-5	2.9	11
98	Mechanobiology of bone remodeling and fracture healing in the aged organism. <i>Innovative Surgical Sciences</i> , 2016 , 1, 57-63	0.8	11
97	Temporal delimitation of the healing phases via monitoring of fracture callus stiffness in rats. Journal of Orthopaedic Research, 2014 , 32, 1589-95	3.8	11
96	C3 rho-inhibitor for targeted pharmacological manipulation of osteoclast-like cells. <i>PLoS ONE</i> , 2013 , 8, e85695	3.7	11
95	Loss of p53 compensates osteopenia in murine Mysm1 deficiency. FASEB Journal, 2018, 32, 1957-1968	0.9	11
94	Bone status of acetylcholinesterase-knockout mice. <i>International Immunopharmacology</i> , 2015 , 29, 222-3	3G .8	10
93	Demineralization after balloon kyphoplasty with calcium phosphate cement: a histological evaluation in ten patients. <i>European Spine Journal</i> , 2014 , 23, 1361-8	2.7	10
92	Increase or decrease in stability after nucleotomy? Conflicting in vitro and in vivo results in the sheep model. <i>Journal of the Royal Society Interface</i> , 2014 , 11, 20140650	4.1	10
91	A computational method for determining tissue material properties in ovine fracture calluses using electronic speckle pattern interferometry and finite element analysis. <i>Medical Engineering and Physics</i> , 2012 , 34, 1521-5	2.4	10
90	Influence of Low-Magnitude High-Frequency Vibration on Bone Cells and Bone Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 595139	5.8	10
89	Primary stability of a shoulderless Zweymller hip stem: a comparative in vitro micromotion study. Journal of Orthopaedic Surgery and Research, 2016 , 11, 73	2.8	10
88	Hypochlorhydria-induced calcium malabsorption does not affect fracture healing but increases post-traumatic bone loss in the intact skeleton. <i>Journal of Orthopaedic Research</i> , 2016 , 34, 1914-1921	3.8	10
87	Osteocyte Regulation of Receptor Activator of NF- B Ligand/Osteoprotegerin in a Sheep Model of Osteoporosis. <i>American Journal of Pathology</i> , 2017 , 187, 1686-1699	5.8	9
86	GEORG SCHMORL PRIZE OF THE GERMAN SPINE SOCIETY (DWG) 2018: combined inflammatory and mechanical stress weakens the annulus fibrosus: evidences from a loaded bovine AF organ culture. <i>European Spine Journal</i> , 2019 , 28, 922-933	2.7	9
85	Deterioration of teeth and alveolar bone loss due to chronic environmental high-level fluoride and low calcium exposure. <i>Clinical Oral Investigations</i> , 2016 , 20, 2361-2370	4.2	9
84	Single impact cartilage trauma and TNF-linteractive effects do not increase early cell death and indicate the need for bi-/multidirectional therapeutic approaches. <i>International Journal of Molecular Medicine</i> , 2012 , 30, 1225-32	4.4	9
83	Biological response to a new composite polymer augmentation device used for cruciate ligament reconstruction. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006 , 76, 265-72	3.5	9
82	Biocompatibility and functionality of the degradable polymer alkylene bis(dilactoyl)-methacrylate for screw augmentation in vivo. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2005 , 75, 128-36	3.5	9

(2003-1993)

81	Toxicological studies with primary cultures of chick embryo cells: DNA fragmentation under the influence of DNase I-inhibitors. <i>Archives of Toxicology</i> , 1993 , 67, 318-24	5.8	9
80	Frakturheilung bei Osteoporose. <i>Osteologie</i> , 2007 , 16, 71-84	0.2	9
79	Evolution of callus tissue behavior during stable distraction osteogenesis. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 85, 12-19	4.1	9
78	Simulating lateral distraction osteogenesis. <i>PLoS ONE</i> , 2018 , 13, e0194500	3.7	8
77	Plasma-enhanced chemical vapor deposition of n-heptane and methyl methacrylate for potential cell alignment applications. <i>ACS Applied Materials & Description of the Plasma-enhanced chemical vapor deposition of the Plasma-enhanced ch</i>	9.5	8
76	Usage of polymer brushes as substrates of bone cells. <i>Frontiers of Materials Science in China</i> , 2009 , 3, 132-144		8
75	Differential Interactive Effects of Cartilage Traumatization and Blood Exposure In Vitro and In Vivo. <i>American Journal of Sports Medicine</i> , 2015 , 43, 2822-32	6.8	7
74	C5aR inhibition in the early inflammatory phase does not affect bone regeneration in a model of uneventful fracture healing. <i>European Journal of Medical Research</i> , 2016 , 21, 42	4.8	7
73	Meniscal Replacement With a Silk Fibroin Scaffold Reduces Contact Stresses in the Human Knee. Journal of Orthopaedic Research, 2019 , 37, 2583-2592	3.8	7
72	Systemic and Cardiac Alterations After Long Bone Fracture. <i>Shock</i> , 2020 , 54, 761-773	3.4	7
71	Degeneration alters the biomechanical properties and structural composition of lateral human menisci. <i>Osteoarthritis and Cartilage</i> , 2020 , 28, 1482-1491	6.2	7
70	The influence of the test setup on knee joint kinematics - A meta-analysis of tibial rotation. <i>Journal of Biomechanics</i> , 2016 , 49, 2982-2988	2.9	7
69	The challenge of implant integration in partial meniscal replacement: an experimental study on a silk fibroin scaffold in sheep. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2019 , 27, 369-380	5.5	7
68	ACL double-bundle reconstruction with one tibial tunnel provides equal stability compared to two tibial tunnels. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2017 , 25, 1646-1652	5.5	6
67	Sheep model for osteoporosis: The effects of peripheral hormone therapy on centrally induced systemic bone loss in an osteoporotic sheep model. <i>Injury</i> , 2017 , 48, 841-848	2.5	6
66	Ultrathin sP(EO-stat-PO) hydrogel coatings are biocompatible and preserve functionality of surface bound growth factors in vivo. <i>Journal of Materials Science: Materials in Medicine</i> , 2013 , 24, 2417-27	4.5	6
65	Mechanosensitive promoter region in the human HB-GAM gene. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 387, 289-93	3.4	6
64	Control of material stiffness during degradation for constructs made of absorbable polymer fibers 2003 , 67, 697-701		6

63	Characterization of interfragmentary motion associated with common osteosynthesis devices for rat fracture healing studies. <i>PLoS ONE</i> , 2017 , 12, e0176735	3.7	6
62	Effects of Estrogen Receptor and Wnt Signaling Activation on Mechanically Induced Bone Formation in a Mouse Model of Postmenopausal Bone Loss. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	6
61	Complement in trauma-Traumatised complement?. British Journal of Pharmacology, 2021, 178, 2863-28	7 9 .6	6
60	Terminal complement complex formation is associated with intervertebral disc degeneration. <i>European Spine Journal</i> , 2021 , 30, 217-226	2.7	6
59	Intramembranous bone formation after callus distraction is augmented by increasing axial compressive strain. <i>PLoS ONE</i> , 2018 , 13, e0195466	3.7	6
58	Differences in Fracture Healing Between Female and Male C57BL/6J Mice. <i>Frontiers in Physiology</i> , 2021 , 12, 712494	4.6	6
57	Dissection of mechanoresponse elements in promoter sites of the mechanoresponsive CYR61 gene. <i>Experimental Cell Research</i> , 2017 , 354, 103-111	4.2	5
56	A novel mouse model to study fracture healing of the proximal femur. <i>Journal of Orthopaedic Research</i> , 2020 , 38, 2131-2138	3.8	5
55	Striking a new path in reducing cartilage breakdown: combination of antioxidative therapy and chondroanabolic stimulation after blunt cartilage trauma. <i>Journal of Cellular and Molecular Medicine</i> , 2018 , 22, 77-88	5.6	5
54	Impact of measurement errors on the determination of the linear modulus of human meniscal attachments. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 10, 120-7	4.1	5
53	Coatings from micropatterned sulfobetaine polymer brushes as substrates for MC3T3-E1 cells. Journal of Materials Science: Materials in Medicine, 2012 , 23, 573-9	4.5	5
52	Development of a new biomechanically defined single impact rabbit cartilage trauma model for in vivo-studies. <i>Journal of Investigative Surgery</i> , 2012 , 25, 235-41	1.2	5
51	A short-term test for nucleotoxicity that uses chick embryo cells treated in vitro and in vivophysico-chemical and biochemical investigations. <i>Comparative Biochemistry and Physiology Part C: Comparative Pharmacology</i> , 1992 , 103, 73-8		5
50	Degeneration Affects Three-Dimensional Strains in Human Menisci: MRI Acquisition Combined With Image Registration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 582055	5.8	5
49	Interleukin-1[and cathepsin D modulate formation of the terminal complement complex in cultured human disc tissue. <i>European Spine Journal</i> , 2021 , 30, 2247-2256	2.7	5
48	Reduced Terminal Complement Complex Formation in Mice Manifests in Low Bone Mass and Impaired Fracture Healing. <i>American Journal of Pathology</i> , 2019 , 189, 147-161	5.8	5
47	Signal Transduction Pathways Involved in Mechanotransduction in Osteoblastic and Mesenchymal Stem Cells 2008 , 253-265		5
46	Spinal fusion without instrumentation - Experimental animal study. Clinical Biomechanics, 2017, 46, 6-14	2.2	4

45	The effect of a combined thoracic and soft-tissue trauma on blood flow and tissue formation in fracture healing in rats. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2017 , 137, 945-952	3.6	4
44	In Vivo Evaluation of Fracture Callus Development During Bone Healing in Mice Using an MRI-compatible Osteosynthesis Device for the Mouse Femur. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	4
43	Impact of five different medial patellofemoral ligament-reconstruction strategies and three different graft pre-tensioning states on the mean patellofemoral contact pressure: a biomechanical study on human cadaver knees. <i>Journal of Experimental Orthopaedics</i> , 2018 , 5, 25	2.3	4
42	Do Prophylactic Knee Braces Protect the Knee Against Impacts or Tibial Moments? An In Vitro Multisensory Study. <i>Orthopaedic Journal of Sports Medicine</i> , 2018 , 6, 2325967118805399	3.5	4
41	Trefoil Factor 3 (TFF3) Is Involved in Cell Migration for Skeletal Repair. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	3
40	German Society of Biomechanics (DGfB) Young Investigator Award 2019: Proof-of-Concept of a Novel Knee Joint Simulator Allowing Rapid Motions at Physiological Muscle and Ground Reaction Forces. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 244	5.8	3
39	New horizons for osteoanabolic treatment?. <i>Nature Reviews Endocrinology</i> , 2018 , 14, 508-509	15.2	3
38	Initial Harm Reduction by N-Acetylcysteine Alleviates Cartilage Degeneration after Blunt Single-Impact Cartilage Trauma in Vivo. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	3
37	Mandibular bone loss in ewe induced by hypothalamic-pituitary disconnection. <i>Clinical Oral Implants Research</i> , 2014 , 25, 1239-1244	4.8	3
36	Calcium Cl/OH-apatite, Cl/OH-apatite/Al2O3 and Ca3(PO4)2 fibre nonwovens: Potential ceramic components for osteosynthesis. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 3993-4000	6	3
35	Accelerated aging phenotype in mice with conditional deficiency for mitochondrial superoxide dismutase in the connective tissue. <i>Aging Cell</i> , 2011 , 10, 912-912	9.9	3
34	Influence of suramin on some DNA-directed enzymes and primary cultures of chicken embryo and rat cells. <i>Anti-Cancer Drugs</i> , 1992 , 3, 499-505	2.4	3
33	Mast Cells Trigger Disturbed Bone Healing in Osteoporotic Mice. <i>Journal of Bone and Mineral Research</i> , 2021 ,	6.3	3
32	Osteoarthritis-Related Degeneration Alters the Biomechanical Properties of Human Menisci Before the Articular Cartilage. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 659989	5.8	3
31	Analysis of microscopic bone properties in an osteoporotic sheep model: a combined biomechanics, FE and ToF-SIMS study. <i>Journal of the Royal Society Interface</i> , 2019 , 16, 20180793	4.1	3
30	Optimizing Manufacturing and Osseointegration of Ti6Al4V Implants through Precision Casting and Calcium and Phosphorus Ion Implantation? In Vivo Results of a Large-Scale Animal Trial. <i>Materials</i> , 2020 , 13,	3.5	3
29	Simulating Metaphyseal Fracture Healing in the Distal Radius. <i>Biomechanics</i> , 2021 , 1, 29-42		3
28	The effect of knee brace misalignment on the anterior cruciate ligament: An experimental study. <i>Prosthetics and Orthotics International</i> , 2019 , 43, 309-315	1.5	2

27	Histomorphometric Analysis of Callus Formation Stimulated by Axial Dynamisation in a Standardised Ovine Osteotomy Model. <i>BioMed Research International</i> , 2019 , 2019, 4250940	3	2
26	Neuromapping of the Capsuloligamentous Knee Joint Structures. <i>Arthroscopy, Sports Medicine, and Rehabilitation</i> , 2021 , 3, e555-e563	2	2
25	Midkine in Skeletal Physiology 2012 , 211-221		1
24	The in vitro influence of sulfated bis-lactobionic acid amides on O6-alkylguanine-DNA alkyltransferase, DNase I, nucleic acid synthesis and chromatin structure. <i>Biochemical Pharmacology</i> , 1994 , 47, 203-8	6	1
23	Temporal-spatial organ response after blast-induced experimental blunt abdominal trauma. <i>FASEB Journal</i> , 2021 , 35, e22038	0.9	1
22	Distinct Glucocorticoid Receptor Actions in Bone Homeostasis and Bone Diseases <i>Frontiers in Endocrinology</i> , 2021 , 12, 815386	5.7	1
21	Increased Presence of Complement Factors and Mast Cells in Alveolar Bone and Tooth Resorption. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
20	Bursa-Derived Cells Show a Distinct Mechano-Response to Physiological and Pathological Loading. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 657166	5.7	1
19	Intact Glucocorticoid Receptor Dimerization Is Deleterious in Trauma-Induced Impaired Fracture Healing. <i>Frontiers in Immunology</i> , 2020 , 11, 628287	8.4	1
18	Persistent JunB activation in fibroblasts disrupts stem cell niche interactions enforcing skin aging. <i>Cell Reports</i> , 2021 , 36, 109634	10.6	1
17	Role of the C5a-C5a receptor axis in the inflammatory responses of the lungs after experimental polytrauma and hemorrhagic shock. <i>Scientific Reports</i> , 2021 , 11, 2158	4.9	1
16	Bone Mass and Osteoblast Activity Are Sex-Dependent in Mice Lacking the Estrogen Receptor In Chondrocytes and Osteoblast Progenitor Cells <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	1
15	Estrogen Receptor signaling in Osteoblasts is Required for Mechanotransduction in Bone Fracture Healing <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 782355	5.8	1
14	Influence of Menisci on Tibiofemoral Contact Mechanics in Human Knees: A Systematic Review Frontiers in Bioengineering and Biotechnology, 2021 , 9, 765596	5.8	1
13	Meniscus Injury and its Surgical Treatment Does not Increase Initial Whole Knee Joint Friction <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 779946	5.8	1
12	Influence of tibial hybrid fixation on graft tension and stability in ACL double-bundle reconstruction. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2017 , 137, 981-988	3.6	O
11	Interleukin-1lMore Than Mechanical Loading Induces a Degenerative Phenotype in Human Annulus Fibrosus Cells, Partially Impaired by Anti-Proteolytic Activity of Mesenchymal Stem Cell Secretome <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 802789	5.8	О
10	Effects of immune cells on mesenchymal stem cells during fracture healing <i>World Journal of Stem Cells</i> , 2021 , 13, 1667-1695	5.6	O

LIST OF PUBLICATIONS

9	A novel in vitro assay to study chondrocyte-to-osteoblast transdifferentiation. <i>Endocrine</i> , 2021 , 1	4	O
8	Knee Joint Menisci Are Shock Absorbers: A Biomechanical Study on Porcine Stifle Joints <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 837554	5.8	О
7	Inhibition of Cdk5 increases osteoblast differentiation and bone mass and improves fracture healing <i>Bone Research</i> , 2022 , 10, 33	13.3	O
6	Mast Cells Drive Systemic Inflammation and Compromised Bone Repair After Trauma <i>Frontiers in Immunology</i> , 2022 , 13, 883707	8.4	O
5	Biologische Einflussfaktoren auf die Knochenbruchheilung. <i>OP-Journal</i> , 2019 , 35, 5-10	O	
4	Effects of immune cells on mesenchymal stem cells during fracture healing. <i>World Journal of Stem Cells</i> , 2021 , 13, 1670-1698	5.6	
3	Biomechanics of a cemented short stem: a comparative in vitro study regarding primary stability and maximum fracture load. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2021 , 141, 1797-1806	3.6	
2	Biomechanics of a calcar loading and a shortened tapered femoral stem: Comparative in-vitro testing of primary stability and strain distribution. <i>Journal of Experimental Orthopaedics</i> , 2021 , 8, 74	2.3	
1	Correction: Steppe et al. Bone Mass and Osteoblast Activity Are Sex-Dependent in Mice Lacking the Estrogen Receptor In Chondrocytes and Osteoblast Progenitor Cells. Int. J. Mol. Sci. 2022, 23, 2902. International Journal of Molecular Sciences, 2022, 23, 6020	6.3	