

Harrie Weinans

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3484901/publications.pdf>

Version: 2024-02-01

235
papers

20,565
citations

9428

76
h-index

12638

137
g-index

240
all docs

240
docs citations

240
times ranked

17298
citing authors

#	ARTICLE	IF	CITATIONS
1	Statistical shape model of the talus bone morphology: A comparison between impinged and nonimpinged ankles. <i>Journal of Orthopaedic Research</i> , 2023, 41, 183-195.	1.2	7
2	Dual-contrast computed tomography enables detection of equine posttraumatic osteoarthritis in vitro. <i>Journal of Orthopaedic Research</i> , 2022, 40, 703-711.	1.2	2
3	The role of the femoral component orientation on dislocations in THA: a systematic review. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2022, 142, 1253-1264.	1.3	11
4	Patient-specific 3D-printed shelf implant for the treatment of hip dysplasia: Anatomical and biomechanical outcomes in a canine model. <i>Journal of Orthopaedic Research</i> , 2022, 40, 1154-1162.	1.2	10
5	MRI-based synthetic CT shows equivalence to conventional CT for the morphological assessment of the hip joint. <i>Journal of Orthopaedic Research</i> , 2022, 40, 954-964.	1.2	27
6	Multiscale characterization of pathological bone tissue. <i>Microscopy Research and Technique</i> , 2022, 85, 469-486.	1.2	5
7	Human monoclonal antibodies against <i>Staphylococcus aureus</i> surface antigens recognize in vitro and in vivo biofilm. <i>ELife</i> , 2022, 11, .	2.8	16
8	Good long-term outcomes of the hip Chiari osteotomy in adolescents and adults with hip dysplasia: a systematic review. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2022, 93, 296-302.	1.2	1
9	Folate Receptor Expression by Human Monocyte-Derived Macrophage Subtypes and Effects of Corticosteroids. <i>Cartilage</i> , 2022, 13, 194760352210814.	1.4	5
10	Fractures in Osteogenesis Imperfecta: Pathogenesis, Treatment, Rehabilitation and Prevention. <i>Children</i> , 2022, 9, 268.	0.6	10
11	Patient-specific 3D-printed shelf implant for the treatment of hip dysplasia tested in an experimental animal pilot in canines. <i>Scientific Reports</i> , 2022, 12, 3032.	1.6	2
12	Vital Role of In-House 3D Lab to Create Unprecedented Solutions for Challenges in Spinal Surgery, Practical Guidelines and Clinical Case Series. <i>Journal of Personalized Medicine</i> , 2022, 12, 395.	1.1	2
13	Efficient cascaded V-Net optimization for lower extremity CT segmentation validated using bone morphology assessment. <i>Journal of Orthopaedic Research</i> , 2022, , .	1.2	6
14	Calculation of the 3-D femoral component's orientation in total hip arthroplasty using a trigonometric algorithm. <i>Scientific Reports</i> , 2022, 12, 3499.	1.6	0
15	Sprague Dawley Rats Show More Severe Bone Loss, Osteophytosis and Inflammation Compared to Wistar Han Rats in a High-Fat, High-Sucrose Diet Model of Joint Damage. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3725.	1.8	7
16	An <i>In Vitro</i> Model to Test the Influence of Immune Cell Secretome on Mesenchymal Stromal Cell Osteogenic Differentiation. <i>Tissue Engineering - Part C: Methods</i> , 2022, 28, 420-430.	1.1	5
17	Effects of human articular cartilage constituents on simultaneous diffusion of cationic and nonionic contrast agents. <i>Journal of Orthopaedic Research</i> , 2021, 39, 771-779.	1.2	12
18	Use of Therapeutic Pathogen Recognition Receptor Ligands for Osteo-Immunomodulation. <i>Materials</i> , 2021, 14, 1119.	1.3	9

#	ARTICLE	IF	CITATIONS
19	3D-printed saw guides for lower arm osteotomy, a comparison between a synthetic CT and CT-based workflow. <i>3D Printing in Medicine</i> , 2021, 7, 13.	1.7	10
20	Making the patient voice heard in a research consortium: experiences from an EU project (IMI-APPROACH). <i>Research Involvement and Engagement</i> , 2021, 7, 24.	1.1	9
21	Topographic features of nano-pores within the osteochondral interface and their effects on transport properties – a 3D imaging and modeling study. <i>Journal of Biomechanics</i> , 2021, 123, 110504.	0.9	4
22	Reply to the Letters to the Editor: The Effect of Postural Pelvic Dynamics on the Three-dimensional Orientation of the Acetabular Cup in THA Is Patient Specific. <i>Clinical Orthopaedics and Related Research</i> , 2021, 479, 1876-1877.	0.7	0
23	CT to MR registration of complex deformations in the knee joint through dual quaternion interpolation of rigid transforms. <i>Physics in Medicine and Biology</i> , 2021, 66, 175024.	1.6	5
24	3D-Printed Regenerative Magnesium Phosphate Implant Ensures Stability and Restoration of Hip Dysplasia. <i>Advanced Healthcare Materials</i> , 2021, 10, e2101051.	3.9	15
25	Quantifying the Effects of Hip Surgery on the Sphericity of the Femoral Head in Patients with Mucopolysaccharidosis Type I. <i>Journal of Bone and Joint Surgery - Series A</i> , 2021, 103, 489-496.	1.4	1
26	The Effect of Postural Pelvic Dynamics on the Three-dimensional Orientation of the Acetabular Cup in THA Is Patient Specific. <i>Clinical Orthopaedics and Related Research</i> , 2021, 479, 561-571.	0.7	16
27	Scoring Osteoarthritis Reliably in Large Joints and the Spine Using Whole-Body CT: OsteoArthritis Computed Tomography-Score (OACT-Score). <i>Journal of Personalized Medicine</i> , 2021, 11, 5.	1.1	8
28	Comparing Hip Dysplasia in Dogs and Humans: A Review. <i>Frontiers in Veterinary Science</i> , 2021, 8, 791434.	0.9	6
29	Deep learning-based MR-to-CT synthesis: The influence of varying gradient echo-based MR images as input channels. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 1429-1441.	1.9	77
30	Dual contrast in computed tomography allows earlier characterization of articular cartilage over single contrast. <i>Journal of Orthopaedic Research</i> , 2020, 38, 2230-2238.	1.2	11
31	Bone Regeneration in Critical-Sized Bone Defects Treated with Additively Manufactured Porous Metallic Biomaterials: The Effects of Inelastic Mechanical Properties. <i>Materials</i> , 2020, 13, 1992.	1.3	14
32	Long-term outcomes of the hip shelf arthroplasty in adolescents and adults with residual hip dysplasia: a systematic review. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 91, 383-389.	1.2	16
33	Multi-classifier prediction of knee osteoarthritis progression from incomplete imbalanced longitudinal data. <i>Scientific Reports</i> , 2020, 10, 8427.	1.6	47
34	Lack of consensus on optimal acetabular cup orientation because of variation in assessment methods in total hip arthroplasty: a systematic review. <i>HIP International</i> , 2019, 29, 41-50.	0.9	27
35	Local controlled release of corticosteroids extends surgically induced joint instability by inhibiting tissue healing. <i>British Journal of Pharmacology</i> , 2019, 176, 4050-4064.	2.7	15
36	Radical-functionalized plasma polymers: Stable biomimetic interfaces for bone implant applications. <i>Applied Materials Today</i> , 2019, 16, 456-473.	2.3	37

#	ARTICLE	IF	CITATIONS
37	Challenges in the design and regulatory approval of 3D-printed surgical implants: a two-case series. <i>The Lancet Digital Health</i> , 2019, 1, e163-e171.	5.9	73
38	Contrast enhanced computed tomography for real-time quantification of glycosaminoglycans in cartilage tissue engineered constructs. <i>Acta Biomaterialia</i> , 2019, 100, 202-212.	4.1	7
39	Increased TGF- β 2 and BMP Levels and Improved Chondrocyte-Specific Marker Expression In Vitro under Cartilage-Specific Physiological Osmolarity. <i>International Journal of Molecular Sciences</i> , 2019, 20, 795.	1.8	22
40	Effect of unfocused extracorporeal shockwave therapy on bone mineral content of twelve distal forearms of postmenopausal women: a clinical pilot study. <i>Archives of Osteoporosis</i> , 2019, 14, 113.	1.0	5
41	A Novel Treatment for Anterior Shoulder Instability. <i>Journal of Bone and Joint Surgery - Series A</i> , 2019, 101, e68.	1.4	12
42	Three-dimensional analysis of shape variations and symmetry of the fibula, tibia, calcaneus and talus. <i>Journal of Anatomy</i> , 2019, 234, 132-144.	0.9	44
43	Fib3-3 as a Biomarker for Osteoarthritis in a Rat Model with Metabolic Dysregulation. <i>Cartilage</i> , 2019, 10, 329-334.	1.4	9
44	Optimization of screw fixation in rat bone with extracorporeal shock waves. <i>Journal of Orthopaedic Research</i> , 2018, 36, 76-84.	1.2	9
45	Metabolic dysregulation accelerates injury-induced joint degeneration, driven by local inflammation; an in vivo rat study. <i>Journal of Orthopaedic Research</i> , 2018, 36, 881-890.	1.2	26
46	Non-enzymatic cross-linking of collagen type II fibrils is tuned via osmolality switch. <i>Journal of Orthopaedic Research</i> , 2018, 36, 1929-1936.	1.2	3
47	Early Signs of Bone and Cartilage Changes Induced by Treadmill Exercise in Rats. <i>JBMR Plus</i> , 2018, 2, 134-142.	1.3	4
48	Degradation, Intra-Articular Biocompatibility, Drug Release, and Bioactivity of Tacrolimus-Loaded Poly(D,L-lactide-PEG)-poly(L-lactide) Multiblock Copolymer-Based Monospheres. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 2390-2403.	2.6	10
49	Effects of non-enzymatic glycation on the micro- and nano-mechanics of articular cartilage. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 77, 551-556.	1.5	15
50	Additively manufactured biodegradable porous magnesium. <i>Acta Biomaterialia</i> , 2018, 67, 378-392.	4.1	273
51	Imaging of Folate Receptor Expressing Macrophages in the Rat Groove Model of Osteoarthritis: Using a New DOTA-Folate Conjugate. <i>Cartilage</i> , 2018, 9, 183-191.	1.4	19
52	Fatigue performance of additively manufactured meta-biomaterials: The effects of topology and material type. <i>Acta Biomaterialia</i> , 2018, 65, 292-304.	4.1	144
53	Trigonometric Algorithm Defining the True Three-Dimensional Acetabular Cup Orientation. <i>JBJS Open Access</i> , 2018, 3, e0063.	0.8	9
54	Antibacterial and immunogenic behavior of silver coatings on additively manufactured porous titanium. <i>Acta Biomaterialia</i> , 2018, 81, 315-327.	4.1	130

#	ARTICLE	IF	CITATIONS
55	Chronic kidney failure mineral bone disorder leads to a permanent loss of hematopoietic stem cells through dysfunction of the stem cell niche. <i>Scientific Reports</i> , 2018, 8, 15385.	1.6	6
56	Multi-scale imaging techniques to investigate solute transport across articular cartilage. <i>Journal of Biomechanics</i> , 2018, 78, 10-20.	0.9	23
57	In vivo pharmacokinetics of celecoxib loaded endcapped PCLA-PEG-PCLA thermogels in rats after subcutaneous administration. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 131, 170-177.	2.0	15
58	Additively manufactured biodegradable porous iron. <i>Acta Biomaterialia</i> , 2018, 77, 380-393.	4.1	185
59	Unfocused shockwaves for osteoinduction in bone substitutes in rat cortical bone defects. <i>PLoS ONE</i> , 2018, 13, e0200020.	1.1	6
60	Groove model of tibia-femoral osteoarthritis in the rat. <i>Journal of Orthopaedic Research</i> , 2017, 35, 496-505.	1.2	23
61	Additively manufactured metallic porous biomaterials based on minimal surfaces: A unique combination of topological, mechanical, and mass transport properties. <i>Acta Biomaterialia</i> , 2017, 53, 572-584.	4.1	546
62	Additively Manufactured and Surface Biofunctionalized Porous Nitinol. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 1293-1304.	4.0	78
63	Solute transport at the interface of cartilage and subchondral bone plate: Effect of micro-architecture. <i>Journal of Biomechanics</i> , 2017, 52, 148-154.	0.9	29
64	An Experimental and Finite Element Protocol to Investigate the Transport of Neutral and Charged Solutes across Articular Cartilage. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	2
65	Inflammation-Induced Osteogenesis in a Rabbit Tibia Model. <i>Tissue Engineering - Part C: Methods</i> , 2017, 23, 673-685.	1.1	17
66	Simultaneous Delivery of Multiple Antibacterial Agents from Additively Manufactured Porous Biomaterials to Fully Eradicate Planktonic and Adherent <i>Staphylococcus aureus</i> . <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 25691-25699.	4.0	82
67	Degradation, intra-articular retention and biocompatibility of monospheres composed of [PDLLA-PEG-PDLLA]-b-PLLA multi-block copolymers. <i>Acta Biomaterialia</i> , 2017, 48, 401-414.	4.1	16
68	Osteophilic properties of bone implant surface modifications in a cassette model on a decorticated goat spinal transverse process. <i>Acta Biomaterialia</i> , 2016, 37, 195-205.	4.1	22
69	Is T1-ρ Mapping an Alternative to Delayed Gadolinium-enhanced MR Imaging of Cartilage in the Assessment of Sulphated Glycosaminoglycan Content in Human Osteoarthritic Knees? An In Vivo Validation Study. <i>Radiology</i> , 2016, 279, 523-531.	3.6	68
70	Isolated effects of external bath osmolality, solute concentration, and electrical charge on solute transport across articular cartilage. <i>Medical Engineering and Physics</i> , 2016, 38, 1399-1407.	0.8	19
71	Guidelines for an optimized indentation protocol for measurement of cartilage stiffness: The effects of spatial variation and indentation parameters. <i>Journal of Biomechanics</i> , 2016, 49, 3602-3607.	0.9	35
72	Combined inverse-forward artificial neural networks for fast and accurate estimation of the diffusion coefficients of cartilage based on multi-physics models. <i>Journal of Biomechanics</i> , 2016, 49, 2799-2805.	0.9	5

#	ARTICLE	IF	CITATIONS
73	Application of multiphysics models to efficient design of experiments of solute transport across articular cartilage. <i>Computers in Biology and Medicine</i> , 2016, 78, 91-96.	3.9	7
74	Bone shape difference between control and osteochondral defect groups of the ankle joint. <i>Osteoarthritis and Cartilage</i> , 2016, 24, 2108-2115.	0.6	20
75	Neutral solute transport across osteochondral interface: A finite element approach. <i>Journal of Biomechanics</i> , 2016, 49, 3833-3839.	0.9	7
76	Antibacterial Behavior of Additively Manufactured Porous Titanium with Nanotubular Surfaces Releasing Silver Ions. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 17080-17089.	4.0	125
77	Multiphase modeling of charged solute transport across articular cartilage: Application of multi-zone finite-bath model. <i>Journal of Biomechanics</i> , 2016, 49, 1510-1517.	0.9	18
78	Geometry-based control of instability patterns in cellular soft matter. <i>RSC Advances</i> , 2016, 6, 20431-20436.	1.7	12
79	Determination of the mechanical and physical properties of cartilage by coupling poroelastic-based finite element models of indentation with artificial neural networks. <i>Journal of Biomechanics</i> , 2016, 49, 631-637.	0.9	16
80	What causes cam deformity and femoroacetabular impingement: still too many questions to provide clear answers. <i>British Journal of Sports Medicine</i> , 2016, 50, 263-264.	3.1	16
81	Femoroacetabular impingement: what is its link with osteoarthritis?. <i>British Journal of Sports Medicine</i> , 2016, 50, 957-958.	3.1	21
82	Non-invasive techniques for studying macrophages in joint inflammation. <i>BMC Musculoskeletal Disorders</i> , 2015, 16, .	0.8	0
83	Triamcinolone acetonide activates an anti-inflammatory and folate receptorâ€“positive macrophage that prevents osteophytosis in vivo. <i>Arthritis Research and Therapy</i> , 2015, 17, 352.	1.6	41
84	Achilles tendons in people with type 2 diabetes show mildly compromised structure: an ultrasound tissue characterisation study. <i>British Journal of Sports Medicine</i> , 2015, 49, 995-999.	3.1	42
85	Revival of pure titanium for dynamically loaded porous implants using additive manufacturing. <i>Materials Science and Engineering C</i> , 2015, 54, 94-100.	3.8	126
86	Validation of statistical shape modelling to predict hip osteoarthritis in females: data from two prospective cohort studies (Cohort Hip and Cohort Knee and Chingford). <i>Rheumatology</i> , 2015, 54, 2033-2041.	0.9	38
87	Associations of markers of matrix metabolism, inflammation markers, and adipokines with superior cam deformity of the hip and their relation with future hip osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2015, 23, 1897-1905.	0.6	5
88	Additively Manufactured Open-Cell Porous Biomaterials Made from Six Different Space-Filling Unit Cells: The Mechanical and Morphological Properties. <i>Materials</i> , 2015, 8, 1871-1896.	1.3	285
89	Distinct subtypes of knee osteoarthritis: data from the Osteoarthritis Initiative. <i>Rheumatology</i> , 2015, 54, 1650-1658.	0.9	62
90	Osteostatin-Coated Porous Titanium Can Improve Early Bone Regeneration of Cortical Bone Defects in Rats. <i>Tissue Engineering - Part A</i> , 2015, 21, 1495-1506.	1.6	32

#	ARTICLE	IF	CITATIONS
91	Relationship between unit cell type and porosity and the fatigue behavior of selective laser melted meta-biomaterials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 43, 91-100.	1.5	316
92	Patient-specific bone modeling and analysis: The role of integration and automation in clinical adoption. <i>Journal of Biomechanics</i> , 2015, 48, 750-760.	0.9	35
93	Additively manufactured porous tantalum implants. <i>Acta Biomaterialia</i> , 2015, 14, 217-225.	4.1	309
94	ANALYTICAL RELATIONSHIPS FOR NANOINDENTATION-BASED ESTIMATION OF MECHANICAL PROPERTIES OF BIOMATERIALS. <i>Journal of Mechanics in Medicine and Biology</i> , 2014, 14, 1430004.	0.3	7
95	Full-Field Strain Measurement During Mechanical Testing of the Human Femur at Physiologically Relevant Strain Rates. <i>Journal of Biomechanical Engineering</i> , 2014, 136, .	0.6	37
96	Mesenchymal stem cells reduce pain but not degenerative changes in a mono-iodoacetate rat model of osteoarthritis. <i>Journal of Orthopaedic Research</i> , 2014, 32, 1167-1174.	1.2	80
97	Mechanical factors explain development of cam-type deformity. <i>Osteoarthritis and Cartilage</i> , 2014, 22, 2074-2082.	0.6	63
98	Effects of densitometry, material mapping and load estimation uncertainties on the accuracy of patient-specific finite-element models of the scapula. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20131146.	1.5	11
99	Crepitus is a first indication of patellofemoral osteoarthritis (and not of tibiofemoral) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 42	0.6	82
100	Increased physical activity severely induces osteoarthritic changes in knee joints with papain induced sulfate-glycosaminoglycan depleted cartilage. <i>Arthritis Research and Therapy</i> , 2014, 16, R32.	1.6	51
101	Mechanical behavior of regular open-cell porous biomaterials made of diamond lattice unit cells. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 34, 106-115.	1.5	340
102	A Cam Deformity Is Gradually Acquired During Skeletal Maturation in Adolescent and Young Male Soccer Players. <i>American Journal of Sports Medicine</i> , 2014, 42, 798-806.	1.9	244
103	Bone regeneration performance of surface-treated porous titanium. <i>Biomaterials</i> , 2014, 35, 6172-6181.	5.7	257
104	Cam impingement: defining the presence of a cam deformity by the alpha angle. <i>Osteoarthritis and Cartilage</i> , 2014, 22, 218-225.	0.6	133
105	Release behavior and intra-articular biocompatibility of celecoxib-loaded acetyl-capped PCLA-PEG-PCLA thermogels. <i>Biomaterials</i> , 2014, 35, 7919-7928.	5.7	73
106	Delayed gadolinium-enhanced MRI of the meniscus (dGEMRIM) in patients with knee osteoarthritis: relation with meniscal degeneration on conventional MRI, reproducibility, and correlation with dGEMRIC. <i>European Radiology</i> , 2014, 24, 2261-2270.	2.3	20
107	Statistical shape and appearance models of bones. <i>Bone</i> , 2014, 60, 129-140.	1.4	133
108	Inflammatory response and bone healing capacity of two porous calcium phosphate ceramics in critical size cortical bone defects. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 1399-1407.	2.1	27

#	ARTICLE	IF	CITATIONS
109	Effects of bio-functionalizing surface treatments on the mechanical behavior of open porous titanium biomaterials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 36, 109-119.	1.5	101
110	Physiological effects of oral glucosamine on joint health: current status and consensus on future research priorities. <i>BMC Research Notes</i> , 2013, 6, 115.	0.6	25
111	Selective laser melting-produced porous titanium scaffolds regenerate bone in critical size cortical bone defects. <i>Journal of Orthopaedic Research</i> , 2013, 31, 792-799.	1.2	225
112	Cam impingement of the hip—a risk factor for hip osteoarthritis. <i>Nature Reviews Rheumatology</i> , 2013, 9, 630-634.	3.5	159
113	Repeatability of digital image correlation for measurement of surface strains in composite long bones. <i>Journal of Biomechanics</i> , 2013, 46, 1928-1932.	0.9	37
114	Neural network prediction of load from the morphology of trabecular bone. <i>Applied Mathematical Modelling</i> , 2013, 37, 5260-5276.	2.2	73
115	Properties of commonly used calcium phosphate cements in trauma and orthopaedic surgery. <i>Injury</i> , 2013, 44, 1368-1374.	0.7	7
116	Experimental validation of finite element model for proximal composite femur using optical measurements. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 21, 86-94.	1.5	69
117	Fatigue behavior of porous biomaterials manufactured using selective laser melting. <i>Materials Science and Engineering C</i> , 2013, 33, 4849-4858.	3.8	275
118	Patient-specific finite element modeling of bones. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2013, 227, 464-478.	1.0	85
119	Image registration improves human knee cartilage T1 mapping with delayed gadolinium-enhanced MRI of cartilage (dGEMRIC). <i>European Radiology</i> , 2013, 23, 246-252.	2.3	42
120	Subject-specific modeling of the scapula bone tissue adaptation. <i>Journal of Biomechanics</i> , 2013, 46, 2434-2441.	0.9	13
121	Pincer deformity does not lead to osteoarthritis of the hip whereas acetabular dysplasia does: acetabular coverage and development of osteoarthritis in a nationwide prospective cohort study (CHECK). <i>Osteoarthritis and Cartilage</i> , 2013, 21, 1514-1521.	0.6	150
122	In situ forming acyl-capped PCLA-PEG-PCLA triblock copolymer based hydrogels. <i>Biomaterials</i> , 2013, 34, 8002-8011.	5.7	61
123	Full-field strain measurement and fracture analysis of rat femora in compression test. <i>Journal of Biomechanics</i> , 2013, 46, 1282-1292.	0.9	24
124	Enhanced Bone Regeneration of Cortical Segmental Bone Defects Using Porous Titanium Scaffolds Incorporated with Colloidal Gelatin Gels for Time- and Dose-Controlled Delivery of Dual Growth Factors. <i>Tissue Engineering - Part A</i> , 2013, 19, 2605-2614.	1.6	89
125	Hsp90 Inhibition Protects Against Biomechanically Induced Osteoarthritis in Rats. <i>Arthritis and Rheumatism</i> , 2013, 65, 2102-2112.	6.7	36
126	Unfocused extracorporeal shock waves induce anabolic effects in osteoporotic rats. <i>Journal of Orthopaedic Research</i> , 2013, 31, 768-775.	1.2	19

#	ARTICLE	IF	CITATIONS
127	Cam impingement causes osteoarthritis of the hip: a nationwide prospective cohort study (CHECK). <i>Annals of the Rheumatic Diseases</i> , 2013, 72, 918-923.	0.5	382
128	Sustained Release of BMP-2 in Bioprinted Alginate for Osteogenicity in Mice and Rats. <i>PLoS ONE</i> , 2013, 8, e72610.	1.1	169
129	Delayed Gadolinium-Enhanced MRI of Cartilage (dGEMRIC) Shows No Change in Cartilage Structural Composition after Viscosupplementation in Patients with Early-Stage Knee Osteoarthritis. <i>PLoS ONE</i> , 2013, 8, e79785.	1.1	32
130	The Development of Cam-Type Deformity in Adolescent and Young Male Soccer Players. <i>American Journal of Sports Medicine</i> , 2012, 40, 1099-1106.	1.9	233
131	Tendon Structure's Lack of Relation to Clinical Outcome After Eccentric Exercises in Chronic Midportion Achilles Tendinopathy. <i>Journal of Sport Rehabilitation</i> , 2012, 21, 34-43.	0.4	72
132	MEASUREMENT OF SURFACE STRAIN DISTRIBUTION IN COMPOSITE FEMORA USING DIGITAL IMAGE CORRELATION. <i>Journal of Biomechanics</i> , 2012, 45, S540.	0.9	1
133	Bone fragility and decline in stem cells in prematurely aging DNA repair deficient trichothiodystrophy mice. <i>Age</i> , 2012, 34, 845-861.	3.0	20
134	Estimation of 3D rotation of femur in 2D hip radiographs. <i>Journal of Biomechanics</i> , 2012, 45, 2279-2283.	0.9	7
135	Mesenchymal stem cells secrete factors that inhibit inflammatory processes in short-term osteoarthritic synovium and cartilage explant culture. <i>Osteoarthritis and Cartilage</i> , 2012, 20, 1186-1196.	0.6	191
136	Inhibiting calcineurin activity under physiologic tonicity elevates anabolic but suppresses catabolic chondrocyte markers. <i>Arthritis and Rheumatism</i> , 2012, 64, 1929-1939.	6.7	27
137	Systemic treatment with pulsed electromagnetic fields do not affect bone microarchitecture in osteoporotic rats. <i>International Orthopaedics</i> , 2012, 36, 1501-1506.	0.9	21
138	Bone remodelling around a cementless glenoid component. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012, 11, 903-913.	1.4	18
139	Computational load estimation of the femur. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 10, 108-119.	1.5	57
140	Periarticular Bone Changes in Osteoarthritis. <i>HSS Journal</i> , 2012, 8, 10-12.	0.7	6
141	Low-magnitude whole body vibration does not affect bone mass but does affect weight in ovariectomized rats. <i>Journal of Bone and Mineral Metabolism</i> , 2012, 30, 40-46.	1.3	16
142	Age-Related Skeletal Dynamics and Decrease in Bone Strength in DNA Repair Deficient Male Trichothiodystrophy Mice. <i>PLoS ONE</i> , 2012, 7, e35246.	1.1	15
143	Platelet-Rich Plasma Releasate Inhibits Inflammatory Processes in Osteoarthritic Chondrocytes. <i>American Journal of Sports Medicine</i> , 2011, 39, 2362-2370.	1.9	320
144	Femoral Component Neck Fracture After Failed Hip Resurfacing Arthroplasty. <i>Journal of Arthroplasty</i> , 2011, 26, 1570.e1-1570.e4.	1.5	5

#	ARTICLE	IF	CITATIONS
145	Analysis of osteoarthritis in a mouse model of the progeroid human DNA repair syndrome trichothiodystrophy. <i>Age</i> , 2011, 33, 247-260.	3.0	12
146	Microstructure and biomechanical characteristics of bone substitutes for trauma and orthopaedic surgery. <i>BMC Musculoskeletal Disorders</i> , 2011, 12, 34.	0.8	60
147	Quantifying osteoarthritic cartilage changes accurately using in vivo microCT arthrography in three etiologically distinct rat models. <i>Journal of Orthopaedic Research</i> , 2011, 29, 1788-1794.	1.2	37
148	Osteoarthritis susceptibility genes influence the association between hip morphology and osteoarthritis. <i>Arthritis and Rheumatism</i> , 2011, 63, 1349-1354.	6.7	82
149	Osteoarthritis induction leads to early and temporal subchondral plate porosity in the tibial plateau of mice: An in vivo microfocal computed tomography study. <i>Arthritis and Rheumatism</i> , 2011, 63, 2690-2699.	6.7	145
150	Imaging of activated macrophages in experimental osteoarthritis using folate-targeted animal single-photon-emission computed tomography/computed tomography. <i>Arthritis and Rheumatism</i> , 2011, 63, 1898-1907.	6.7	57
151	One-Year Follow-up of Platelet-Rich Plasma Treatment in Chronic Achilles Tendinopathy. <i>American Journal of Sports Medicine</i> , 2011, 39, 1623-1630.	1.9	338
152	No effects of PRP on ultrasonographic tendon structure and neovascularisation in chronic midportion Achilles tendinopathy. <i>British Journal of Sports Medicine</i> , 2011, 45, 387-392.	3.1	192
153	Clinically Translatable Cell Tracking and Quantification by MRI in Cartilage Repair Using Superparamagnetic Iron Oxides. <i>PLoS ONE</i> , 2011, 6, e17001.	1.1	72
154	In early OA, thinning of the subchondral plate is directly related to cartilage damage: results from a canine ACLT-menisectomy model. <i>Osteoarthritis and Cartilage</i> , 2010, 18, 691-698.	0.6	135
155	Stimulation of osteogenic differentiation in human osteoprogenitor cells by pulsed electromagnetic fields: an in vitro study. <i>BMC Musculoskeletal Disorders</i> , 2010, 11, 188.	0.8	141
156	Similarities and discrepancies in subchondral bone structure in two differently induced canine models of osteoarthritis. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 1650-1657.	3.1	59
157	Stretch-induced inhibition of Wnt/ β -catenin signaling in mineralizing osteoblasts. <i>Journal of Orthopaedic Research</i> , 2010, 28, 390-396.	1.2	31
158	Estrogen modulates iodoacetate-induced gene expression in bovine cartilage explants. <i>Journal of Orthopaedic Research</i> , 2010, 28, 607-615.	1.2	10
159	Platelet-Rich Plasma Injection for Chronic Achilles Tendinopathy. <i>JAMA - Journal of the American Medical Association</i> , 2010, 303, 144.	3.8	718
160	Calcineurin Inhibitors Promote Chondrogenic Marker Expression of Dedifferentiated Human Adult Chondrocytes via Stimulation of Endogenous TGF β 1 Production. <i>Tissue Engineering - Part A</i> , 2010, 16, 1-10.	1.6	23
161	Ultrasonographic tissue characterisation of human Achilles tendons: quantification of tendon structure through a novel non-invasive approach. <i>British Journal of Sports Medicine</i> , 2010, 44, 1153-1159.	3.1	158
162	Oestrogen is important for maintenance of cartilage and subchondral bone in a murine model of knee osteoarthritis. <i>Arthritis Research and Therapy</i> , 2010, 12, R182.	1.6	74

#	ARTICLE	IF	CITATIONS
163	Physiological tonicity improves human chondrogenic marker expression through nuclear factor of activated T-cells 5 in vitro. <i>Arthritis Research and Therapy</i> , 2010, 12, R100.	1.6	48
164	ADAMTS $\alpha^{\sim}/\alpha^{\sim}$ mice have less subchondral bone changes after induction of osteoarthritis through surgical instability: implications for a link between cartilage and subchondral bone changes. <i>Osteoarthritis and Cartilage</i> , 2009, 17, 636-645.	0.6	113
165	Unfocused extracorporeal shock wave therapy as potential treatment for osteoporosis. <i>Journal of Orthopaedic Research</i> , 2009, 27, 1528-1533.	1.2	51
166	Chondrogenic Priming of Human Bone Marrow Stromal Cells: A Better Route to Bone Repair?. <i>Tissue Engineering - Part C: Methods</i> , 2009, 15, 285-295.	1.1	121
167	Dual energy x-ray absorptiometry analysis contributes to the prediction of hip osteoarthritis progression. <i>Arthritis Research and Therapy</i> , 2009, 11, R162.	1.6	16
168	Bone Resorption Inhibitor Alendronate Normalizes the Reduced Bone Thickness of TRPV5 $\alpha^{\sim}/\alpha^{\sim}$ Mice. <i>Journal of Bone and Mineral Research</i> , 2008, 23, 1815-1824.	3.1	25
169	A role for subchondral bone changes in the process of osteoarthritis; a micro-CT study of two canine models. <i>BMC Musculoskeletal Disorders</i> , 2008, 9, 20.	0.8	117
170	Contribution of collagen network features to functional properties of engineered cartilage. <i>Osteoarthritis and Cartilage</i> , 2008, 16, 359-366.	0.6	67
171	In vitro expansion affects the response of chondrocytes to mechanical stimulation. <i>Osteoarthritis and Cartilage</i> , 2008, 16, 385-391.	0.6	61
172	Cartilage damage pattern in relation to subchondral plate thickness in a collagenase-induced model of osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2008, 16, 506-514.	0.6	106
173	Animal models for osteoarthritis: the effect of ovariectomy and estrogen treatment – a systematic approach. <i>Osteoarthritis and Cartilage</i> , 2008, 16, 533-541.	0.6	164
174	In vivo imaging of cartilage degeneration using $\frac{1}{4}$ CT-arthrography. <i>Osteoarthritis and Cartilage</i> , 2008, 16, 1011-1017.	0.6	82
175	Single versus triple daily activation of the distractor: No significant effects of frequency of distraction on bone regenerate quantity and architecture. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2008, 36, 143-151.	0.7	8
176	Effects of iron oxide incorporation for long term cell tracking on MSC differentiation in vitro and in vivo. <i>Biochemical and Biophysical Research Communications</i> , 2008, 369, 1076-1081.	1.0	129
177	Can Platelet-Rich Plasma Enhance Tendon Repair?. <i>American Journal of Sports Medicine</i> , 2008, 36, 1171-1178.	1.9	390
178	Effect of Glucosamine Sulfate on Hip Osteoarthritis. <i>Annals of Internal Medicine</i> , 2008, 148, 268.	2.0	109
179	Histogram-Based Selective Deblurring to Improve Computed Tomography Imaging of Calcifications. <i>Investigative Radiology</i> , 2007, 42, 8-22.	3.5	9
180	Early identification of radiographic osteoarthritis of the hip using an active shape model to quantify changes in bone morphometric features: Can hip shape tell us anything about the progression of osteoarthritis?. <i>Arthritis and Rheumatism</i> , 2007, 56, 3634-3643.	6.7	153

#	ARTICLE	IF	CITATIONS
181	Intrinsic differentiation potential of adolescent human tendon tissue: an in-vitro cell differentiation study. <i>BMC Musculoskeletal Disorders</i> , 2007, 8, 16.	0.8	92
182	Effects of microarchitecture on bone strength. <i>Current Osteoporosis Reports</i> , 2007, 5, 56-61.	1.5	39
183	Prediction of torsional failure in 22 cadaver femora with and without simulated subtrochanteric metastatic defects: A CT scan-based finite element analysis. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2006, 77, 474-481.	1.2	28
184	The use of micro-CT to study bone architecture dynamics noninvasively. <i>Drug Discovery Today: Technologies</i> , 2006, 3, 213-219.	4.0	11
185	Ultrasonic characterization of human trabecular bone microstructure. <i>Physics in Medicine and Biology</i> , 2006, 51, 1633-1648.	1.6	85
186	Strength of cancellous bone trabecular tissue from normal, ovariectomized and drug-treated rats over the course of ageing. <i>Bone</i> , 2006, 39, 392-400.	1.4	72
187	The novel vitamin D analog ZK191784 as an intestine-specific vitamin D antagonist. <i>FASEB Journal</i> , 2006, 20, 2171-2173.	0.2	15
188	Stress-concentrating effect of resorption lacunae in trabecular bone. <i>Journal of Biomechanics</i> , 2006, 39, 734-741.	0.9	73
189	Glucosamine decreases expression of anabolic and catabolic genes in human osteoarthritic cartilage explants. <i>Osteoarthritis and Cartilage</i> , 2006, 14, 250-257.	0.6	83
190	Biochemical and functional modulation of the cartilage collagen network by IGF1, TGF β 2 and FGF2. <i>Osteoarthritis and Cartilage</i> , 2006, 14, 1136-1146.	0.6	78
191	Long-term serotonin administration leads to higher bone mineral density, affects bone architecture, and leads to higher femoral bone stiffness in rats. <i>Journal of Cellular Biochemistry</i> , 2006, 97, 1283-1291.	1.2	61
192	Bone loss dynamics result in trabecular alignment in aging and ovariectomized rats. <i>Journal of Orthopaedic Research</i> , 2006, 24, 926-935.	1.2	75
193	Stretch-induced modulation of matrix metalloproteinases in mineralizing osteoblasts via extracellular signal-regulated kinase-1/2. <i>Journal of Orthopaedic Research</i> , 2006, 24, 1480-1488.	1.2	26
194	The novel vitamin D analog ZK191784 as an intestine-specific vitamin D antagonist. <i>FASEB Journal</i> , 2006, , .	0.2	15
195	Lordotic vertebrae in sea bass (<i>Dicentrarchus labrax</i> L.) are adapted to increased loads. <i>Journal of Biomechanics</i> , 2005, 38, 1239-1246.	0.9	73
196	The effect of glucosamine sulphate on osteoarthritis: design of a long-term randomised clinical trial [ISRCTN54513166]. <i>BMC Musculoskeletal Disorders</i> , 2005, 6, 20.	0.8	17
197	Hypervitaminosis D Mediates Compensatory Ca ²⁺ Hyperabsorption in TRPV5 Knockout Mice. <i>Journal of the American Society of Nephrology: JASN</i> , 2005, 16, 3188-3195.	3.0	85
198	Prediction of density and mechanical properties of human trabecular bone in vitro by using ultrasound transmission and backscattering measurements at 0.2-6.7 MHz frequency range. <i>Physics in Medicine and Biology</i> , 2005, 50, 1629-1642.	1.6	86

#	ARTICLE	IF	CITATIONS
199	Identification of acid-sensing ion channels in bone. <i>Biochemical and Biophysical Research Communications</i> , 2005, 337, 349-354.	1.0	125
200	An Improved Segmentation Method for In Vivo μ CT Imaging. <i>Journal of Bone and Mineral Research</i> , 2004, 19, 1640-1650.	3.1	180
201	Improved cartilage integration and interfacial strength after enzymatic treatment in a cartilage transplantation model. <i>Arthritis Research</i> , 2004, 6, R469.	2.0	107
202	Detecting and tracking local changes in the tibiae of individual rats: a novel method to analyse longitudinal in vivo micro-CT data. <i>Bone</i> , 2004, 34, 163-169.	1.4	227
203	The osteoporotic vertebral structure is well adapted to the loads of daily life, but not to infrequent δ -loads. <i>Bone</i> , 2004, 34, 510-516.	1.4	182
204	Mechanical Control of Human Osteoblast Apoptosis and Proliferation in Relation to Differentiation. <i>Calcified Tissue International</i> , 2003, 72, 505-512.	1.5	119
205	The dependence of the elastic properties of osteoporotic cancellous bone on volume fraction and fabric. <i>Journal of Biomechanics</i> , 2003, 36, 1461-1467.	0.9	86
206	Living cells in 1 of 2 frozen femoral heads. <i>Acta Orthopaedica</i> , 2003, 74, 661-664.	1.4	15
207	Cancellous bone mechanical properties from normals and patients with hip fractures differ on the structure level, not on the bone hard tissue level. <i>Bone</i> , 2002, 30, 759-764.	1.4	162
208	ERK activation and α 5 β 3 integrin signaling through Shc recruitment in response to mechanical stimulation in human osteoblasts. <i>Journal of Cellular Biochemistry</i> , 2002, 87, 85-92.	1.2	75
209	Osteoporosis Changes the Amount of Vertebral Trabecular Bone at Risk of Fracture but Not the Vertebral Load Distribution. <i>Spine</i> , 2001, 26, 1555-1560.	1.0	124
210	Introduction and evaluation of a gray-value voxel conversion technique. <i>Journal of Biomechanics</i> , 2001, 34, 513-517.	0.9	77
211	Trabecular bone's mechanical properties are affected by its non-uniform mineral distribution. <i>Journal of Biomechanics</i> , 2001, 34, 1573-1580.	0.9	110
212	Mechanical Consequences of Bone Loss in Cancellous Bone. <i>Journal of Bone and Mineral Research</i> , 2001, 16, 457-465.	3.1	129
213	A Three-Dimensional Simulation of Age-Related Remodeling in Trabecular Bone. <i>Journal of Bone and Mineral Research</i> , 2001, 16, 688-696.	3.1	58
214	A decreased subchondral trabecular bone tissue elastic modulus is associated with pre-arthritis cartilage damage. <i>Journal of Orthopaedic Research</i> , 2001, 19, 914-918.	1.2	172
215	Monitoring water content in deforming intervertebral disc tissue by finite element analysis of MRI data. <i>Magnetic Resonance in Medicine</i> , 2000, 44, 650-654.	1.9	31
216	Sensitivity of periprosthetic stress-shielding to load and the bone density μ modulus relationship in subject-specific finite element models. <i>Journal of Biomechanics</i> , 2000, 33, 809-817.	0.9	109

#	ARTICLE	IF	CITATIONS
217	Correlation between pre-operative periprosthetic bone density and post-operative bone loss in THA can be explained by strain-adaptive remodelling. <i>Journal of Biomechanics</i> , 1999, 32, 695-703.	0.9	199
218	Fractures of the lumbar vertebral endplate in the etiology of low back pain: a hypothesis on the causative role of spinal compression in aspecific low back pain. <i>Medical Hypotheses</i> , 1999, 53, 246-252.	0.8	87
219	Finite element analysis of trabecular bone structure: a comparison of image-based meshing techniques. <i>Journal of Biomechanics</i> , 1998, 31, 1187-1192.	0.9	246
220	Finite Element Aided Tracking of Signal Intensity Changes in Deforming Intervertebral Disc Tissue. <i>Magnetic Resonance Imaging</i> , 1998, 16, 77-82.	1.0	2
221	Is osteoporosis a matter of over-adaptation?. <i>Technology and Health Care</i> , 1998, 6, 299-306.	0.5	15
222	Reconstruction of bone loading conditions from in vivo strain measurements. <i>Journal of Biomechanics</i> , 1995, 28, 739-744.	0.9	14
223	A new method to determine trabecular bone elastic properties and loading using micromechanical finite-element models. <i>Journal of Biomechanics</i> , 1995, 28, 69-81.	0.9	769
224	A physiological approach to the simulation of bone remodeling as a self-organizational control process. <i>Journal of Biomechanics</i> , 1994, 27, 1389-1394.	0.9	253
225	Adaptive bone remodeling around bonded noncemented total hip arthroplasty: A comparison between animal experiments and computer simulation. <i>Journal of Orthopaedic Research</i> , 1993, 11, 500-513.	1.2	159
226	The mechanism of bone remodeling and resorption around press-fitted THA stems. <i>Journal of Biomechanics</i> , 1993, 26, 369-382.	0.9	262
227	Quantitative analysis of bone reactions to relative motions at implant-bone interfaces. <i>Journal of Biomechanics</i> , 1993, 26, 1271-1281.	0.9	64
228	The Relationship Between Stress Shielding and Bone Resorption Around Total Hip Stems and the Effects of Flexible Materials. <i>Clinical Orthopaedics and Related Research</i> , 1992, &NA;, 124??134.	0.7	744
229	The behavior of adaptive bone-remodeling simulation models. <i>Journal of Biomechanics</i> , 1992, 25, 1425-1441.	0.9	503
230	Intramedullary fixation with screwed, conical stems—Unsolicited results from animal experiments. <i>Clinical Materials</i> , 1992, 10, 239-242.	0.5	1
231	Effects of material properties of femoral hip components on bone remodeling. <i>Journal of Orthopaedic Research</i> , 1992, 10, 845-853.	1.2	157
232	Trends of mechanical consequences and modeling of a fibrous membrane around femoral hip prostheses. <i>Journal of Biomechanics</i> , 1990, 23, 991-1000.	0.9	69
233	Adaptive Bone Remodeling and Biomechanical Design Considerations for Noncemented Total Hip Arthroplasty. <i>Orthopedics</i> , 1989, 12, 1255-1267.	0.5	197
234	Adaptive bone-remodeling theory applied to prosthetic-design analysis. <i>Journal of Biomechanics</i> , 1987, 20, 1135-1150.	0.9	981

#	ARTICLE	IF	CITATIONS
235	Chondrogenic Priming of Human Bone Marrow Stromal Cells: A Better Route to Bone Repair?. Tissue Engineering - Part A, 0, , 110306231138043.	1.6	3