

Dominique P Pioletti

List of Publications by Year in descending order

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Version: 2024-02-01

188
papers

5,822
citations

81743

39
h-index

102304

66
g-index

194
all docs

194
docs citations

194
times ranked

6728
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature evolution following joint loading promotes chondrogenesis by synergistic cues via calcium signaling. <i>ELife</i> , 2022, 11, .	2.8	13
2	Age- and sex-specific normative values of bone mineral density in the adult glenoid. <i>Journal of Orthopaedic Research</i> , 2022, , .	1.2	2
3	An Off-the-Shelf Tissue Engineered Cartilage Composed of Optimally Sized Pellets of Cartilage Progenitor/Stem Cells. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 881-892.	2.6	7
4	Muscle co-contraction in an upper limb musculoskeletal model: EMG-assisted vs. standard load-sharing. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021, 24, 137-150.	0.9	4
5	Feasibility of an alternative method to estimate glenohumeral joint center from videogrammetry measurements and CT/MRI of patients. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021, 24, 33-42.	0.9	2
6	Silk granular hydrogels self-reinforced with regenerated silk fibroin fibers. <i>Soft Matter</i> , 2021, 17, 7038-7046.	1.2	8
7	Development of Standardized Fetal Progenitor Cell Therapy for Cartilage Regenerative Medicine: Industrial Transposition and Preliminary Safety in Xenogeneic Transplantation. <i>Biomolecules</i> , 2021, 11, 250.	1.8	10
8	An Intrinsically Adhesive Family of Injectable and Photo-Curable Hydrogels with Functional Physicochemical Performance for Regenerative Medicine. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2000660.	2.0	25
9	Thoughts on cartilage tissue engineering: A 21st century perspective. <i>Current Research in Translational Medicine</i> , 2021, 69, 103299.	1.2	36
10	A Matlab toolbox for scaled-generic modeling of shoulder and elbow. <i>Scientific Reports</i> , 2021, 11, 20806.	1.6	1
11	432-Functional mouthguard design to enhance the protective capability and athlete comfort. , 2021, , .		0
12	Light-Activated, Bioadhesive, Poly(2-hydroxyethyl methacrylate) Brush Coatings. <i>Biomacromolecules</i> , 2020, 21, 240-249.	2.6	13
13	Efficient decellularization of equine tendon with preserved biomechanical properties and cytocompatibility for human tendon surgery indications. <i>Artificial Organs</i> , 2020, 44, E161-E171.	1.0	28
14	Glenoid bone strain after anatomical total shoulder arthroplasty: In vitro measurements with micro-CT and digital volume correlation. <i>Medical Engineering and Physics</i> , 2020, 85, 48-54.	0.8	11
15	Hybrid granular hydrogels: combining composites and microgels for extended ranges of material properties. <i>Soft Matter</i> , 2020, 16, 3769-3778.	1.2	15
16	In vitro Implementation of Photopolymerizable Hydrogels as a Potential Treatment of Intracranial Aneurysms. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 261.	2.0	11
17	Pulsatile Flow-Induced Fatigue-Resistant Photopolymerizable Hydrogels for the Treatment of Intracranial Aneurysms. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 619858.	2.0	7
18	Control of Dissipation Sources: A Central Aspect for Enhancing the Mechanical and Mechanobiological Performances of Hydrogels. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 39662-39671.	4.0	15

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19	Knitted Silk-Collagen Scaffold Incorporated with Ligament Stem/Progenitor Cells Sheet for Anterior Cruciate Ligament Reconstruction and Osteoarthritis Prevention. ACS Biomaterials Science and Engineering, 2019, 5, 5412-5421.	2.6	18
20	Patellar bone strain after total knee arthroplasty is correlated with bone mineral density and body mass index. Medical Engineering and Physics, 2019, 68, 17-24.	0.8	4
21	Fatigue as the missing link between bone fragility and fracture. Nature Biomedical Engineering, 2018, 2, 62-71.	11.6	57
22	Activation of AKT-mTOR Signaling Directs Tenogenesis of Mesenchymal Stem Cells. Stem Cells, 2018, 36, 527-539.	1.4	36
23	Effect of temporal onsets of mechanical loading on bone formation inside a tissue engineering scaffold combined with cell therapy. Bone Reports, 2018, 8, 173-179.	0.2	7
24	Effect of a collar on subsidence and local micromotion of cementless femoral stems: in vitro comparative study based on micro-computerised tomography. International Orthopaedics, 2018, 42, 49-57.	0.9	22
25	Non-setting, injectable biomaterials containing particulate hydroxyapatite can increase primary stability of bone screws in cancellous bone. Clinical Biomechanics, 2018, 59, 174-180.	0.5	6
26	Composite Double-Network Hydrogels To Improve Adhesion on Biological Surfaces. ACS Applied Materials & Interfaces, 2018, 10, 38692-38699.	4.0	81
27	Cyclic loading of a cellulose/hydrogel composite increases its fracture strength. Extreme Mechanics Letters, 2018, 24, 66-74.	2.0	15
28	Decellularised tissues obtained by a CO ₂ -philic detergent and supercritical CO ₂ . , 2018, 36, 81-95.		25
29	Tailoring swelling to control softening mechanisms during cyclic loading of PEG/cellulose hydrogel composites. Composites Science and Technology, 2018, 168, 88-95.	3.8	13
30	Zone-dependent mechanical properties of human articular cartilage obtained by indentation measurements. Journal of Materials Science: Materials in Medicine, 2018, 29, 57.	1.7	83
31	<i>In vitro</i> and <i>in vivo</i> investigation of bisphosphonate-loaded hydroxyapatite particles for peri-implant bone augmentation. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 1974-1985.	1.3	33
32	Ectopic tissue engineered ligament with silk collagen scaffold for ACL regeneration: A preliminary study. Acta Biomaterialia, 2017, 53, 307-317.	4.1	22
33	Alignment of collagen fiber in knitted silk scaffold for functional massive rotator cuff repair. Acta Biomaterialia, 2017, 51, 317-329.	4.1	91
34	Development of an Effective Cell Seeding Technique: Simulation, Implementation, and Analysis of Contributing Factors. Tissue Engineering - Part C: Methods, 2017, 23, 485-496.	1.1	16
35	Micromotion-induced peri-prosthetic fluid flow around a cementless femoral stem. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, 730-736.	0.9	6
36	Importance of trabecular anisotropy in finite element predictions of patellar strain after Total Knee Arthroplasty. Medical Engineering and Physics, 2017, 39, 102-105.	0.8	3

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37	3D Printing of Polymers with Hierarchical Continuous Porosity. <i>Advanced Materials Technologies</i> , 2017, 2, 1700145.	3.0	48
38	A simulation framework for humeral head translations. <i>Medical Engineering and Physics</i> , 2017, 49, 140-147.	0.8	7
39	Human Bone Progenitor Cells for Clinical Application: What Kind of Immune Reaction Does Fetal Xenograft Tissue Trigger in Immunocompetent Rats?. <i>Cell Transplantation</i> , 2017, 26, 879-890.	1.2	7
40	Effects of glenoid inclination and acromion index on humeral head translation and glenoid articular cartilage strain. <i>Journal of Shoulder and Elbow Surgery</i> , 2017, 26, 157-164.	1.2	29
41	Viscohyperelastic Strain Energy Function. , 2017, , 59-78.		3
42	Experimental method to characterize the strain dependent permeability of tissue engineering scaffolds. <i>Journal of Biomechanics</i> , 2016, 49, 3749-3752.	0.9	11
43	Identification of elastic properties of human patellae using micro-finite element analysis. <i>Journal of Biomechanics</i> , 2016, 49, 3111-3115.	0.9	8
44	Anti-Microbial Dendrimers against Multidrug-Resistant <i>P. aeruginosa</i> Enhance the Angiogenic Effect of Biological Burn-wound Bandages. <i>Scientific Reports</i> , 2016, 6, 22020.	1.6	45
45	Full-field measurement of micromotion around a cementless femoral stem using micro-CT imaging and radiopaque markers. <i>Journal of Biomechanics</i> , 2016, 49, 4002-4008.	0.9	14
46	Stability Enhancement Using Hyaluronic Acid Gels for Delivery of Human Fetal Progenitor Tenocytes. <i>Cell Medicine</i> , 2016, 8, 87-97.	5.0	14
47	Biodegradable HEMA-based hydrogels with enhanced mechanical properties. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 1161-1169.	1.6	16
48	A patient-specific model of total knee arthroplasty to estimate patellar strain: A case study. <i>Clinical Biomechanics</i> , 2016, 32, 212-219.	0.5	12
49	In-situ photopolymerized and monitored implants: successful application to an intervertebral disc replacement. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
50	A photopolymerized composite hydrogel and surgical implanting tool for a nucleus pulposus replacement. <i>Biomaterials</i> , 2016, 88, 110-119.	5.7	51
51	Effect of partial-thickness tear on loading capacities of the supraspinatus tendon: a finite element analysis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 875-882.	0.9	10
52	Osteogenesis imperfecta: from diagnosis and multidisciplinary treatment to future perspectives. <i>Swiss Medical Weekly</i> , 2016, 146, w14322.	0.8	30
53	Miniature probe for the delivery and monitoring of a photopolymerizable material. <i>Journal of Biomedical Optics</i> , 2015, 20, 127001.	1.4	14
54	Photo-polymerization, swelling and mechanical properties of cellulose fibre reinforced poly(ethylene Tj ETQq0 0 0 ggBT /Overlock 10 Tf	0.8	48

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55	Development of an in situ controllable polymerization tool and process for hydrogel used to replace nucleus pulposus. Proceedings of SPIE, 2015, , .	0.8	0
56	Time course of bone screw fixation following a local delivery of Zoledronate in a rat femoral model â€“ A micro-finite element analysis. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 45, 22-31.	1.5	16
57	Comparison of an EMG-based and a stress-based method to predict shoulder muscle forces. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 1272-1279.	0.9	15
58	Variability of the pullout strength of cancellous bone screws with cement augmentation. Clinical Biomechanics, 2015, 30, 500-506.	0.5	17
59	Mechanical evaluation of a tissue-engineered zone of calcification in a boneâ€“hydrogel osteochondral construct. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 332-337.	0.9	9
60	Novel micropatterns mechanically control fibrotic reactions at the surface of silicone implants. Biomaterials, 2015, 54, 136-147.	5.7	35
61	In-situ photopolymerization and monitoring device for controlled shaping of tissue fillers, replacements, or implants. , 2015, , .		2
62	Distribution of gap and micromotion during compressive loading around a cementless femoral stem. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 1896-1897.	0.9	1
63	Photopolymerization device for minimally invasive implants: application to nucleus pulposus replacement. IFMBE Proceedings, 2015, , 1333-1337.	0.2	0
64	Strategies for improving the repair of focal cartilage defects. Nanomedicine, 2015, 10, 2893-2905.	1.7	18
65	Impact of synovial fluid flow on temperature regulation in knee cartilage. Journal of Biomechanics, 2015, 48, 370-374.	0.9	26
66	Improving hydrogels ^{x3} toughness by increasing the dissipative properties of their network. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 41, 161-167.	1.5	22
67	Photopolymerizable hydrogels for implants: Monte-Carlo modeling and experimental<i>in vitro</i>validation. Journal of Biomedical Optics, 2014, 19, 035004.	1.4	15
68	Minimally invasive photopolymerization in intervertebral disc tissue cavities. , 2014, , .		2
69	Translation of biomechanical concepts in bone tissue engineering: from animal study to revision knee arthroplasty. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 845-852.	0.9	2
70	The role of energy dissipation of polymeric scaffolds in the mechanobiological modulation of chondrogenic expression. Biomaterials, 2014, 35, 1890-1897.	5.7	38
71	A model for micromotion-induced fluid flow at the bone-implant interface. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 52-53.	0.9	0
72	Impact of partial-thickness tears on supraspinatus tendon strain based on a finite element analysis. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 118-119.	0.9	5

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73	Does locally delivered Zoledronate influence peri-implant bone formation? â€“ Spatio-temporal monitoring of bone remodeling in vivo. <i>Biomaterials</i> , 2014, 35, 9995-10006.	5.7	24
74	Intrinsic viscoelasticity increases temperature in knee cartilage under physiological loading. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 30, 123-130.	1.5	25
75	Controlled release from a mechanically-stimulated thermosensitive self-heating composite hydrogel. <i>Biomaterials</i> , 2014, 35, 450-455.	5.7	43
76	Capillary-valve-based platform towards cell-on-chip mechanotransduction assays. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 1019-1025.	4.0	3
77	Importance of the subscapularis muscle after total shoulder arthroplasty. <i>Clinical Biomechanics</i> , 2013, 28, 146-150.	0.5	50
78	Activities of daily living with reverse prostheses: importance of scapular compensation for functional mobility of the shoulder. <i>Journal of Shoulder and Elbow Surgery</i> , 2013, 22, 948-953.	1.2	19
79	A Flow Sensing Model for Mesenchymal Stromal Cells Using Morphogen Dynamics. <i>Biophysical Journal</i> , 2013, 104, 2132-2136.	0.2	3
80	Response to Letter to the Editor: Comment on â€œinjectable calcium phosphate cement for augmentation around cancellous bone screws. In vivo biomechanical studiesâ€•(volume 45, issue 7, pages 1156â€“1160). <i>Journal of Biomechanics</i> , 2013, 46, 634-635.	0.9	0
81	Multi-scale modeling of photopolymerization for medical hydrogel-implant design. , 2013, , .		3
82	Integration of mechanotransduction concepts in bone tissue engineering. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013, 16, 1050-1055.	0.9	16
83	Effect of a pathological scapular tilt after total shoulder arthroplasty. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013, 16, 1196-1201.	0.9	0
84	Dissipation Can Act as a Mechanobiological Signal in Cartilage Differentiation. , 2013, , .		0
85	Mechanical Properties of a Photopolymerizable Hydrogel for Intervertebral Disc Replacement. <i>Biomedizinische Technik</i> , 2013, 58 Suppl 1, .	0.9	1
86	Mechanical Properties of a Photopolymerizable Hydrogel for Intervertebral Disc Replacement. , 2013, , .		0
87	A method to measure glenoid wear in 3D. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012, 15, 343-344.	0.9	0
88	Epiphyseal Chondroprogenitors Provide a Stable Cell Source for Cartilage Cell Therapy. <i>Cell Medicine</i> , 2012, 4, 23-32.	5.0	36
89	Damping properties of the nucleus pulposus. <i>Clinical Biomechanics</i> , 2012, 27, 861-865.	0.5	8
90	Simultaneous and multisite measure of micromotion, subsidence and gap to evaluate femoral stem stability. <i>Journal of Biomechanics</i> , 2012, 45, 1232-1238.	0.9	27

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91	Injectable calcium phosphate cement for augmentation around cancellous bone screws. In vivo biomechanical studies. <i>Journal of Biomechanics</i> , 2012, 45, 1156-1160.	0.9	26
92	Importance of polyethylene thickness in total shoulder arthroplasty: A finite element analysis. <i>Clinical Biomechanics</i> , 2012, 27, 443-448.	0.5	12
93	Synthesis and Photopolymerization of Tween 20 Methacrylate/N-vinyl-2-Pyrrolidone Blends. <i>Materials Science and Engineering C</i> , 2012, 32, 2235-2241.	3.8	9
94	Combined effects of zoledronate and mechanical stimulation on bone adaptation in an axially loaded mouse tibia. <i>Clinical Biomechanics</i> , 2011, 26, 101-105.	0.5	27
95	In vivo assessment of local effects after application of bone screws delivering bisphosphonates into a compromised cancellous bone site. <i>Clinical Biomechanics</i> , 2011, 26, 1039-1043.	0.5	19
96	In vivo loading increases mechanical properties of scaffold by affecting bone formation and bone resorption rates. <i>Bone</i> , 2011, 49, 1357-1364.	1.4	39
97	Bone regeneration and stem cells. <i>Journal of Cellular and Molecular Medicine</i> , 2011, 15, 718-746.	1.6	308
98	Prediction of spatio-temporal bone formation in scaffold by diffusion equation. <i>Biomaterials</i> , 2011, 32, 7006-7012.	5.7	11
99	Biomechanics and tissue engineering. <i>Osteoporosis International</i> , 2011, 22, 2027-2031.	1.3	9
100	Nanofibrillated cellulose composite hydrogel for the replacement of the nucleus pulposus. <i>Acta Biomaterialia</i> , 2011, 7, 3412-3421.	4.1	88
101	Human fetal bone cells in delivery systems for bone engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011, 5, 806-814.	1.3	12
102	Surgical preparation of bone-scaffold interface is critical for bone regeneration inside tissue engineering scaffold. <i>Journal of Orthopaedic Research</i> , 2011, 29, 767-772.	1.2	3
103	A new technique to measure micromotion distribution around a cementless femoral stem. <i>Journal of Biomechanics</i> , 2011, 44, 557-560.	0.9	14
104	Shoulder muscle forces during abduction with subscapularis deficiency after total shoulder arthroplasty. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2011, 14, 19-20.	0.9	2
105	Viscoelastic assessment of skin quality for clinical applications. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2011, 14, 235-236.	0.9	0
106	Biologicals and Fetal Cell Therapy for Wound and Scar Management. <i>ISRN Dermatology</i> , 2011, 2011, 1-16.	1.9	21
107	Regulation of proliferation and differentiation of human fetal bone cells. , 2011, 21, 46-58.		20
108	Plasticity of Fetal Cartilaginous Cells. <i>Cell Transplantation</i> , 2010, 19, 1349-1357.	1.2	30

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109	Augmentation of bone defect healing using a new biocomposite scaffold: An in vivo study in sheep. <i>Acta Biomaterialia</i> , 2010, 6, 3755-3762.	4.1	63
110	Corrigendum to "Calcium phosphate augmentation of cancellous bone screws in impaired lapine bone" [Injury 40 (S2) (2009) S23]. <i>Injury</i> , 2010, 41, 552.	0.7	0
111	Mechanical interaction between cells and fluid for bone tissue engineering scaffold: Modulation of the interfacial shear stress. <i>Journal of Biomechanics</i> , 2010, 43, 933-937.	0.9	16
112	Calcium phosphate cement augmentation of cancellous bone screws can compensate for the absence of cortical fixation. <i>Journal of Biomechanics</i> , 2010, 43, 2869-2874.	0.9	46
113	A musculoskeletal shoulder model based on pseudo-inverse and null-space optimization. <i>Medical Engineering and Physics</i> , 2010, 32, 1050-1056.	0.8	32
114	Curing kinetics and mechanical properties of a composite hydrogel for the replacement of the nucleus pulposus. <i>Composites Science and Technology</i> , 2010, 70, 1847-1853.	3.8	37
115	Biomechanics in bone tissue engineering. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2010, 13, 837-846.	0.9	25
116	Estimation of Biomechanical Stimulus in Bone Scaffolds in Vivo: Multi-Scale Finite Element Model. , 2010, , .		0
117	Biomechanical consequences of humeral component malpositioning after anatomical total shoulder arthroplasty. <i>Journal of Shoulder and Elbow Surgery</i> , 2010, 19, 1184-1190.	1.2	46
118	Proliferative and Osteogenic Differentiation Potentials of Human Fetal Bone Cells. <i>Bone</i> , 2010, 46, S51.	1.4	0
119	Tightening force and torque of nonlocking screws in a reverse shoulder prosthesis. <i>Clinical Biomechanics</i> , 2010, 25, 517-522.	0.5	14
120	Prediction of polyethylene wear after total knee replacement. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2010, 13, 139-140.	0.9	0
121	In vivo cyclic loading as a potent stimulatory signal for bone formation inside tissue engineering scaffold. , 2010, 19, 41-49.		32
122	<i>In Vitro</i> Characterization of Immune-Related Properties of Human Fetal Bone Cells for Potential Tissue Engineering Applications. <i>Tissue Engineering - Part A</i> , 2009, 15, 1523-1532.	1.6	34
123	Reverse shoulder arthroplasty: polyethylene wear. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2009, 12, 247-248.	0.9	2
124	Reverse shoulder arthroplasty: compression screw force. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2009, 12, 243-244.	0.9	0
125	Biomechanical considerations can serve as design rules in the development of bone tissue engineering scaffold. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2009, 12, 17-18.	0.9	2
126	Model to optimise the amount of drug on an implant used as drug delivery system. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2009, 12, 233-234.	0.9	0

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127	Whole-Cell Bioprocessing of Human Fetal Cells for Tissue Engineering of Skin. <i>Skin Pharmacology and Physiology</i> , 2009, 22, 63-73.	1.1	41
128	Biomechanical evaluation of porous biodegradable scaffolds for revision knee arthroplasty. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2009, 12, 333-339.	0.9	9
129	3D strain map of axially loaded mouse tibia: a numerical analysis validated by experimental measurements. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2009, 12, 95-100.	0.9	32
130	Comparison of polyethylene wear in anatomical and reversed shoulder prostheses. <i>Journal of Bone and Joint Surgery: British Volume</i> , 2009, 91-B, 977-982.	3.4	44
131	Isolation and <i>in vitro</i> chondrogenic potential of human foetal spine cells. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 2559-2569.	1.6	22
132	Chronic wound healing by fetal cell therapy may be explained by differential gene profiling observed in fetal versus old skin cells. <i>Experimental Gerontology</i> , 2009, 44, 208-218.	1.2	65
133	Targeted mechanical properties for optimal fluid motion inside artificial bone substitutes. <i>Journal of Orthopaedic Research</i> , 2009, 27, 1082-1087.	1.2	9
134	Osteoclastogenesis can be mechanically-induced in the peri-implant bone. <i>Irbm</i> , 2009, 30, 10-13.	3.7	2
135	Prediction of bone density around orthopedic implants delivering bisphosphonate. <i>Journal of Biomechanics</i> , 2009, 42, 1206-1211.	0.9	24
136	Walk-to-run transition: about the Modela dimensionless number. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2009, 12, 95-96.	0.9	28
137	Total knee arthroplasty: posterior tilt of tibial tray. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2009, 12, 245-246.	0.9	0
138	Total shoulder arthroplasty: Downward inclination of the glenoid component to balance supraspinatus deficiency. <i>Journal of Shoulder and Elbow Surgery</i> , 2009, 18, 360-365.	1.2	31
139	Dynamical biomechanical model of the shoulder: Null space based optimization of the overactuated system.., 2009, , .		3
140	Measuring micromotion around a loaded hip stem using $\hat{1}/4$ CT imaging. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2009, 12, 129-130.	0.9	0
141	Human muscular fetal cells: a potential cell source for muscular therapies. <i>Pediatric Surgery International</i> , 2008, 24, 37-47.	0.6	16
142	Wound healing Gene Family Expression Differences Between Fetal and Foreskin Cells Used for Bioengineered Skin Substitutes. <i>Artificial Organs</i> , 2008, 32, 509-518.	1.0	36
143	Microstimulation at the bone-implant interface upregulates osteoclast activation pathways. <i>Bone</i> , 2008, 42, 358-364.	1.4	44
144	Human fetal bone cells associated with ceramic reinforced PLA scaffolds for tissue engineering. <i>Bone</i> , 2008, 42, 554-564.	1.4	76

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145	Orthopedic Implant Used as Drug Delivery System: Clinical Situation and State of the Research. <i>Current Drug Delivery</i> , 2008, 5, 59-63.	0.8	24
146	Using drug delivery systems to enhance joint replacement. , 2008, , 397-406.		0
147	Implants delivering bisphosphonate locally increase periprosthetic bone density in an osteoporotic sheep model. A pilot study. , 2008, 16, 10-16.		88
148	Activation pathways of osteoclasts are up-regulated by micromotions at the bone-implant interface. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2007, 10, 93-94.	0.9	0
149	Strain distribution in mice tibia under axial loading. Numerical and experimental models. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2007, 10, 89-90.	0.9	3
150	Consistency and Safety of Cell Banks for Research and Clinical Use: Preliminary Analysis of Fetal Skin Banks. <i>Cell Transplantation</i> , 2007, 16, 675-684.	1.2	41
151	Biomechanical evaluation of intra-articular and extra-articular procedures in anterior cruciate ligament reconstruction: A finite element analysis. <i>Clinical Biomechanics</i> , 2007, 22, 336-343.	0.5	48
152	Repair of critical size defects in the rat cranium using ceramic-reinforced PLA scaffolds obtained by supercritical gas foaming. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 83A, 41-51.	2.1	77
153	Poly(lactide-co-glycolide) phosphate glass composite foams as scaffolds for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007, 80B, 322-331.	1.6	63
154	Bone tissue engineering using foetal cell therapy. <i>Swiss Medical Weekly</i> , 2007, 137 Suppl 155, 86S-89S.	0.8	1
155	31st Congress of the Societ� de Biom�canique. <i>Journal of Biomechanics</i> , 2006, 39, xi.	0.9	0
156	Architecture and properties of anisotropic polymer composite scaffolds for bone tissue engineering. <i>Biomaterials</i> , 2006, 27, 905-916.	5.7	305
157	Local delivery of bisphosphonate from coated orthopedic implants increases implants mechanical stability in osteoporotic rats. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 76A, 133-143.	2.1	153
158	Bone tissue engineering using foetal cell therapy. <i>Swiss Medical Weekly</i> , 2006, 136, 557-60.	0.8	24
159	Bioresorbable composites prepared by supercritical fluid foaming. <i>Journal of Biomedical Materials Research - Part A</i> , 2005, 75A, 89-97.	2.1	91
160	How plate positioning impacts the biomechanics of the open wedge tibial osteotomy; A finite element analysis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2005, 8, 307-313.	0.9	45
161	The effect of bisphosphonates and titanium particles on osteoblasts. <i>Journal of Bone and Joint Surgery: British Volume</i> , 2005, 87-B, 1157-1163.	3.4	12
162	Calcium phosphate drug delivery system: influence of local zoledronate release on bone implant osteointegration. <i>Bone</i> , 2005, 36, 52-60.	1.4	250

#	ARTICLE	IF	CITATIONS
163	Biocompatibility of Bioresorbable Poly(L-lactic acid) Composite Scaffolds Obtained by Supercritical Gas Foaming with Human Fetal Bone Cells. <i>Tissue Engineering</i> , 2005, 11, 1640-1649.	4.9	114
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