Marco Viceconti

List of Publications by Year in descending order

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	27035	38517
13,151	58	99
citations	h-index	g-index
227	227	0504
327	327	8584
docs citations	times ranked	citing authors
	13,151 citations 327 docs citations	13,15158citationsh-index327327docs citations327times ranked

#	Article	IF	CITATIONS
1	Personalised 3D Assessment of Trochanteric Soft Tissues Improves HIP Fracture Classification Accuracy. Annals of Biomedical Engineering, 2022, 50, 303-313.	1.3	5
2	A theoretical analysis of the scale separation in a model to predict solid tumour growth. Journal of Theoretical Biology, 2022, 547, 111173.	0.8	8
3	In silico trials: Verification, validation and uncertainty quantification of predictive models used in the regulatory evaluation of biomedical products. Methods, 2021, 185, 120-127.	1.9	138
4	Possible Contexts of Use for <i>In Silico</i> Trials Methodologies: A Consensus-Based Review. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3977-3982.	3.9	21
5	Femoral neck strain prediction during level walking using a combined musculoskeletal and finite element model approach. PLoS ONE, 2021, 16, e0245121.	1.1	11
6	Does total hip arthroplasty have a higher risk of failure in patients who undergo lumbar spinal fusion?. Bone and Joint Journal, 2021, 103-B, 486-491.	1.9	9
7	Verification of an <scp>agentâ€based</scp> disease model of human <scp><i>Mycobacterium tuberculosis</i></scp> infection. International Journal for Numerical Methods in Biomedical Engineering, 2021, 37, e3470.	1.0	8
8	A systematic approach to the scale separation problem in the development of multiscale models. PLoS ONE, 2021, 16, e0251297.	1.1	5
9	Submodeling in wear predictive finite element models with multipoint contacts. International Journal for Numerical Methods in Engineering, 2021, 122, 3812-3823.	1.5	4
10	Computational modelling of the scoliotic spine: A literature review. International Journal for Numerical Methods in Biomedical Engineering, 2021, 37, e3503.	1.0	9
11	Effect of Suboptimal Neuromuscular Control on the Risk of Massive Wear in Total Knee Replacement. Annals of Biomedical Engineering, 2021, 49, 3349-3355.	1.3	4
12	Finite element analysis informed variable selection for femoral fracture risk prediction. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 118, 104434.	1.5	8
13	How can we accelerate COVID-19 vaccine discovery?. Expert Opinion on Drug Discovery, 2021, 16, 1081-1084.	2.5	2
14	Using Musculoskeletal Models to Estimate in vivo Total Knee Replacement Kinematics and Loads: Effect of Differences Between Models. Frontiers in Bioengineering and Biotechnology, 2021, 9, 703508.	2.0	9
15	A Roadmap to Inform Development, Validation and Approval of Digital Mobility Outcomes: The Mobilise-D Approach. Digital Biomarkers, 2021, 4, 13-27.	2.2	73
16	Computational biomedicine. Part II: organs and systems. Interface Focus, 2021, 11, 20200082.	1.5	3
17	Credibility of <i>In Silico</i> Trial Technologies—A Theoretical Framing. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 4-13.	3.9	41
18	The Uncontrolled Manifold Theory Could Explain Part of the Inter-Trial Variability of Knee Contact Force During Level Walking. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1800-1807.	2.7	7

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19	Toward a Regulatory Qualification of Real-World Mobility Performance Biomarkers in Parkinson's Patients Using Digital Mobility Outcomes. Sensors, 2020, 20, 5920.	2.1	42
20	Moving forward through the in silico modeling of tuberculosis: a further step with UISS-TB. BMC Bioinformatics, 2020, 21, 458.	1.2	11
21	Generation of digital patients for the simulation of tuberculosis with UISS-TB. BMC Bioinformatics, 2020, 21, 449.	1.2	11
22	In silico trial to test COVID-19 candidate vaccines: a case study with UISS platform. BMC Bioinformatics, 2020, 21, 527.	1.2	40
23	PRIMAGE project: predictive in silico multiscale analytics to support childhood cancer personalised evaluation empowered by imaging biomarkers. European Radiology Experimental, 2020, 4, 22.	1.7	41
24	An extended discrete element method for the estimation of contact pressure at the ankle joint during stance phase. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2020, 234, 507-516.	1.0	12
25	CT-Scan Data Acquisition to Generate Biomechanical Models of Bone Structures. , 2020, , 279-287.		3
26	Verify: a toolbox for deterministic verification of computational models. , 2020, , .		2
27	Torsional Stability of Total HIP Arthroplasty: In-Vitro and FEM Analysis with New Trends for the Future. , 2020, , 77-86.		0
28	In silico clinical trials: concepts and early adoptions. Briefings in Bioinformatics, 2019, 20, 1699-1708.	3.2	156
29	A new method to monitor bone geometry changes at different spatial scales in the longitudinal in vivo μCT studies of mice bones. PLoS ONE, 2019, 14, e0219404.	1.1	3
30	Biomechanical assessment of vertebrae with lytic metastases with subject-specific finite element models. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 98, 268-290.	1.5	29
31	Muscle recruitment strategies can reduce joint loading during level walking. Journal of Biomechanics, 2019, 97, 109368.	0.9	23
32	An image-based kinematic model of the tibiotalar and subtalar joints and its application to gait analysis in children with Juvenile Idiopathic Arthritis. Journal of Biomechanics, 2019, 85, 27-36.	0.9	27
33	Linking Joint Impairment and Gait Biomechanics in Patients with Juvenile Idiopathic Arthritis. Annals of Biomedical Engineering, 2019, 47, 2155-2167.	1.3	15
34	The effect of boundary and loading conditions on patient classification using finite element predicted risk of fracture. Clinical Biomechanics, 2019, 68, 137-143.	0.5	26
35	Preâ€operative prediction of soft tissue balancing in knee arthoplasty part 1: Effect of surgical parameters during level walking. Journal of Orthopaedic Research, 2019, 37, 1537-1545.	1.2	11
36	Evaluation of the efficacy of RUTI and ID93/GLA-SE vaccines in tuberculosis treatment: in silico trial		6

through UISS-TB simulator. , 2019, , .

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37	Generation of digital patients for the simulation of tuberculosis with UISS-TB. , 2019, , .		2
38	Predicting the artificial immunity induced by RUTI® vaccine against tuberculosis using universal immune system simulator (UISS). BMC Bioinformatics, 2019, 20, 504.	1.2	27
39	A multiscale model to predict current absolute risk of femoral fracture in a postmenopausal population. Biomechanics and Modeling in Mechanobiology, 2019, 18, 301-318.	1.4	25
40	From bed to bench: How in silico medicine can help ageing research. Mechanisms of Ageing and Development, 2019, 177, 103-108.	2.2	25
41	Are CT-Based Finite Element Model Predictions of Femoral Bone Strengthening Clinically Useful?. Current Osteoporosis Reports, 2018, 16, 216-223.	1.5	39
42	Investigation of the dependence of joint contact forces on musculotendon parameters using a codified workflow for image-based modelling. Journal of Biomechanics, 2018, 73, 108-118.	0.9	70
43	VPH-HF: A software framework for the execution of complex subject-specific physiology modelling workflows. Journal of Computational Science, 2018, 25, 101-114.	1.5	2
44	Investigating the mechanical response of paediatric bone under bending and torsion using finite element analysis. Biomechanics and Modeling in Mechanobiology, 2018, 17, 1001-1009.	1.4	17
45	Multiscale modeling methods in biomechanics. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2017, 9, e1375.	6.6	19
46	Sensitivity of a juvenile subject-specific musculoskeletal model of the ankle joint to the variability of operator-dependent input. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2017, 231, 415-422.	1.0	14
47	In silico assessment of biomedical products: The conundrum of rare but not so rare events in two case studies. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2017, 231, 455-466.	1.0	45
48	Longitudinal effects of Parathyroid Hormone treatment on morphological, densitometric and mechanical properties of mouse tibia. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 75, 244-251.	1.5	33
49	Local displacement and strain uncertainties in different bone types by digital volume correlation of synchrotron microtomograms. Journal of Biomechanics, 2017, 58, 27-36.	0.9	43
50	Micro-CT based finite element models of cancellous bone predict accurately displacement once the boundary condition is well replicated: A validation study. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 65, 644-651.	1.5	81
51	Effect of integration time on the morphometric, densitometric and mechanical properties of the mouse tibia. Journal of Biomechanics, 2017, 65, 203-211.	0.9	26
52	Special Issue on â€~Computational Modelling in Medicine': Guest editor introduction. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2017, 231, 353-354.	1.0	0
53	Micro Finite Element models of the vertebral body: Validation of local displacement predictions. PLoS ONE, 2017, 12, e0180151.	1.1	55
54	A PRELIMINARY IN VITRO BIOMECHANICAL EVALUATION OF PROPHYLACTIC CEMENT AUGMENTATION OF THE THORACOLUMBAR VERTEBRAE. Journal of Mechanics in Medicine and Biology, 2016, 16, 1650074.	0.3	5

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55	The Virtual Physiological Human: Ten Years After. Annual Review of Biomedical Engineering, 2016, 18, 103-123.	5.7	73
56	Patient-specific finite element estimated femur strength as a predictor of the risk of hip fracture: the effect of methodological determinants. Osteoporosis International, 2016, 27, 2815-2822.	1.3	80
57	Development of a protocol to quantify local bone adaptation over space and time: Quantification of reproducibility. Journal of Biomechanics, 2016, 49, 2095-2099.	0.9	33
58	Experimental validation of DXA-based finite element models for prediction of femoral strength. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 63, 17-25.	1.5	61
59	A Patient-Specific Foot Model for the Estimate of Ankle Joint Forces in Patients with Juvenile Idiopathic Arthritis. Annals of Biomedical Engineering, 2016, 44, 247-257.	1.3	41
60	In silico clinical trials: how computer simulation will transform the biomedical industry. International Journal of Clinical Trials, 2016, 3, 37.	0.0	155
61	Evaluation of in-vivo measurement errors associated with micro-computed tomography scans by means of the bone surface distance approach. Medical Engineering and Physics, 2015, 37, 1091-1097.	0.8	20
62	Estimation of local anisotropy of plexiform bone: Comparison between depth sensing micro-indentation and Reference Point Indentation. Journal of Biomechanics, 2015, 48, 4073-4080.	0.9	8
63	Sensitivity of a subject-specific musculoskeletal model to the uncertainties on the joint axes location. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 1555-1563.	0.9	58
64	Three-Dimensional Local Measurements of Bone Strain and Displacement: Comparison of Three Digital Volume Correlation Approaches. Journal of Biomechanical Engineering, 2015, 137, .	0.6	68
65	A procedure to estimate the origins and the insertions of the knee ligaments from computed tomography images. Journal of Biomechanics, 2015, 48, 233-237.	0.9	17
66	Biomechanics-based in silico medicine: The manifesto of a new science. Journal of Biomechanics, 2015, 48, 193-194.	0.9	16
67	Big Data, Big Knowledge: Big Data for Personalized Healthcare. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 1209-1215.	3.9	244
68	Developing CT based computational models of pediatric femurs. Journal of Biomechanics, 2015, 48, 2034-2040.	0.9	26
69	Multiscale modelling in biomechanics. Interface Focus, 2015, 5, 20150003.	1.5	5
70	Stochastic modelling of muscle recruitment during activity. Interface Focus, 2015, 5, 20140094.	1.5	47
71	Are Subject-Specific Musculoskeletal Models Robust to the Uncertainties in Parameter Identification?. PLoS ONE, 2014, 9, e112625.	1.1	146
72	A NEW PARADIGM FOR THE <i>IN VITRO</i> SIMULATION OF SIDEWAYS FALL LOADING OF THE PROXIMAL HUMAN FEMUR. Journal of Mechanics in Medicine and Biology, 2014, 14, 1450005.	0.3	8

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73	Large-Scale Finite Element Analysis of Human Cancellous Bone Tissue Micro Computer Tomography Data: A Convergence Study. Journal of Biomechanical Engineering, 2014, 136, 101013.	0.6	15
74	The VPH Hypermodelling framework for cancer multiscale models in the clinical practice. , 2014, , .		3
75	Computational horizons in cancer (CHIC): Developing meta- and hyper-multiscale models and repositories for in Silico Oncology - A brief technical outline of the project. , 2014, 2014, .		4
76	EXPERIMENTAL METHODS FOR THE BIOMECHANICAL INVESTIGATION OF THE HUMAN SPINE: A REVIEW. Journal of Mechanics in Medicine and Biology, 2014, 14, 1430002.	0.3	11
77	DIFFERENCES BETWEEN CONTRALATERAL BONES OF THE HUMAN LOWER LIMBS: A MULTISCALE INVESTIGATION. Journal of Mechanics in Medicine and Biology, 2014, 14, 1450032.	0.3	3
78	Comprehensive evaluation of PCA-based finite element modelling of the human femur. Medical Engineering and Physics, 2014, 36, 1246-1252.	0.8	22
79	About the inevitable compromise between spatial resolution and accuracy of strain measurement for bone tissue: A 3D zero-strain study. Journal of Biomechanics, 2014, 47, 2956-2963.	0.9	83
80	Multiple loading conditions analysis can improve the association between finite element bone strength estimates and proximal femur fractures: A preliminary study in elderly women. Bone, 2014, 67, 71-80.	1.4	135
81	Strain distribution in the lumbar vertebrae under different loading configurations. Spine Journal, 2013, 13, 1281-1292.	0.6	29
82	Computational tools for calculating alternative muscle force patterns during motion: A comparison of possible solutions. Journal of Biomechanics, 2013, 46, 2097-2100.	0.9	20
83	A vision and strategy for the virtual physiological human: 2012 update. Interface Focus, 2013, 3, 20130004.	1.5	74
84	Integrative approaches to computational biomedicine. Interface Focus, 2013, 3, 20130003.	1.5	10
85	Accurate in vitro identification of fracture onset in bones: Failure mechanism of the proximal human femur. Journal of Biomechanics, 2013, 46, 158-164.	0.9	20
86	Human bone hardness seems to depend on tissue type but not on anatomical site in the long bones of an old subject. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2013, 227, 200-206.	1.0	22
87	Comments on â€~Experimental versus computational analysis of micromotions at the implant - bone interface'. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2012, 226, 417-419.	1.0	0
88	MECHANICAL PROPERTIES OF THE HUMAN METATARSAL BONES. Journal of Mechanics in Medicine and Biology, 2012, 12, 1250062.	0.3	7
89	Multilevel Computational Modeling and Quantitative Analysis of Bone Remodeling. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012, 9, 1366-1378.	1.9	16
90	Biomechanical robustness of a new proximal epiphyseal hip replacement to patient variability and surgical uncertainties: A FE study. Medical Engineering and Physics, 2012, 34, 161-171.	0.8	22

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91	Muscle discretization affects the loading transferred to bones in lower-limb musculoskeletal models. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2012, 226, 161-169.	1.0	19
92	Accuracy of finite element predictions in sideways load configurations for the proximal human femur. Journal of Biomechanics, 2012, 45, 394-399.	0.9	158
93	Are spontaneous fractures possible? An example of clinical application for personalised, multiscale neuro-musculo-skeletal modelling. Journal of Biomechanics, 2012, 45, 421-426.	0.9	109
94	Femoral loads during gait in a patient with massive skeletal reconstruction. Clinical Biomechanics, 2012, 27, 273-280.	0.5	36
95	METHOD TO ANALYZE THE FATIGUE CRACKS IN ACRYLIC BONE CEMENT. Journal of Mechanics in Medicine and Biology, 2012, 12, 1250017.	0.3	0
96	Modelling osteomyelitis. BMC Bioinformatics, 2012, 13, S12.	1.2	31
97	A comparison between micro T and histology for the evaluation of cortical bone: effect of polymethylmethacrylate embedding on structural parameters. Journal of Microscopy, 2012, 245, 302-310.	0.8	54
98	SOA-based digital library services and composition in biomedical applications. Computer Methods and Programs in Biomedicine, 2012, 106, 219-233.	2.6	6
99	Collaborative Modeling and Simulation: The Virtual Physiological Human Vision (Full Paper). , 2011, , .		0
100	Collaborative Modeling and Simulation: The Virtual Physiological Human Vision (Keynote). , 2011, , .		1
101	A tentative taxonomy for predictive models in relation to their falsifiability. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 4149-4161.	1.6	13
102	The Virtual Physiological Human. Interface Focus, 2011, 1, 281-285.	1.5	13
103	Assessment of femoral neck fracture risk for a novel proximal epiphyseal hip prosthesis. Clinical Biomechanics, 2011, 26, 585-591.	0.5	9
104	Dependence of trabecular structure on bone quantity: A comparison between osteoarthritic and non-pathological bone. Clinical Biomechanics, 2011, 26, 632-639.	0.5	11
105	Compressive behaviour of child and adult cortical bone. Bone, 2011, 49, 769-776.	1.4	129
106	The human proximal femur behaves linearly elastic up to failure under physiological loading conditions. Journal of Biomechanics, 2011, 44, 2259-2266.	0.9	66
107	The effect of adding 10% of barium sulphate radiopacifier on the mechanical behaviour of acrylic bone cement. Fatigue and Fracture of Engineering Materials and Structures, 2011, 34, 374-382.	1.7	8
108	A new hip epiphyseal prosthesis: Design revision driven by a validated numerical procedure. Medical Engineering and Physics, 2011, 33, 1203-1211.	0.8	17

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109	Re-use of explanted osteosynthesis devices: A reliable and inexpensive reprocessing protocol. Injury, 2011, 42, 1101-1106.	0.7	10
110	Multimodal fusion of biomedical data at different temporal and dimensional scales. Computer Methods and Programs in Biomedicine, 2011, 102, 227-237.	2.6	21
111	A Combined Process Algebraic and Stochastic Approach to Bone Remodeling. Electronic Notes in Theoretical Computer Science, 2011, 277, 41-52.	0.9	5
112	A pictographic atlas for classifying damage modes on polyethylene bearings. Journal of Materials Science: Materials in Medicine, 2011, 22, 1137-1146.	1.7	12
113	Subject-specific knee joint model: Design of an experiment toÂvalidate a multi-body finite element model. Visual Computer, 2011, 27, 153-159.	2.5	12
114	Repeatable procedure for evaluating taper damage on femoral stems with modular necks. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2011, 99B, 431-439.	1.6	6
115	Evaluation of the generality and accuracy of a new mesh morphing procedure for the human femur. Medical Engineering and Physics, 2011, 33, 112-120.	0.8	69
116	Volume to density relation in adult human bone tissue. Journal of Biomechanics, 2011, 44, 103-108.	0.9	45
117	Reduced tissue hardness of trabecular bone is associated with severe osteoarthritis. Journal of Biomechanics, 2011, 44, 1593-1598.	0.9	33
118	Effect of sub-optimal neuromotor control on the hip joint load during level walking. Journal of Biomechanics, 2011, 44, 1716-1721.	0.9	42
119	Extensive Risk Analysis of Mechanical Failure for an Epiphyseal Hip Prothesis: A Combined Numerical—Experimental Approach. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2011, 225, 126-140.	1.0	23
120	Femoral head diameter and carbon composition effect on wear of metal-on-metal hip replacements. Computer Methods in Biomechanics and Biomedical Engineering, 2011, 14, 31-32.	0.9	1
121	Carbon composition effects on wear behaviour and wear mechanisms of metal-on-metal hip prosthesis. Computer Methods in Biomechanics and Biomedical Engineering, 2011, 14, 33-34.	0.9	7
122	Policy needs and options for a common approach towards modelling and simulation of human physiology and diseases with a focus on the virtual physiological human. Studies in Health Technology and Informatics, 2011, 170, 49-82.	0.2	3
123	A Method to Improve Experimental Validation of Finiteâ€Element Models of Long Bones. Strain, 2010, 46, 242-251.	1.4	1
124	Combined Wear Behavior and Longâ€Term Implantâ€Bone Fixation of Total Knee Replacement: A Novel In Vitro Setâ€up. Artificial Organs, 2010, 34, E177-83.	1.0	6
125	The virtual physiological human: computer simulation for integrative biomedicine I. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 2591-2594.	1.6	17
126	The virtual physiological human: computer simulation for integrative biomedicine II. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 2837-2839.	1.6	11

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127	A vision and strategy for the virtual physiological human in 2010 and beyond. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 2595-2614.	1.6	136
128	PhysiomeSpace: digital library service for biomedical data. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 2853-2861.	1.6	25
129	Structural behaviour and strain distribution of the long bones of the human lower limbs. Journal of Biomechanics, 2010, 43, 826-835.	0.9	48
130	Anisotropy and inhomogeneity of the trabecular structure can describe the mechanical strength of osteoarthritic cancellous bone. Journal of Biomechanics, 2010, 43, 1160-1166.	0.9	43
131	Enabling the interactive display of large medical volume datasets by multiresolution bricking. Journal of Supercomputing, 2010, 51, 3-19.	2.4	13
132	Effect of a virtual reality interface on the learning curve and on the accuracy of a surgical planner for total hip replacement. Computer Methods and Programs in Biomedicine, 2010, 97, 86-91.	2.6	10
133	Long-term in-vitro wear performance of an innovative thermo-compressed cross-linked polyethylene. Tribology International, 2010, 43, 22-28.	3.0	12
134	Quality control protocol for <i>in vitro</i> micro omputed tomography. Journal of Microscopy, 2010, 238, 162-172.	0.8	7
135	Osteon Classification in Human Fibular Shaft by Circularly Polarized Light. Cells Tissues Organs, 2010, 191, 260-268.	1.3	25
136	A Novel Method for Determining the Time and Location of Abrupt Fracture Initiation in Bones. Journal of Strain Analysis for Engineering Design, 2010, 45, 481-493.	1.0	8
137	Integrated friction measurements in hip wear simulations: Short-term results. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2010, 224, 865-876.	1.0	6
138	Effect of long-term physiological activity on the long-term stem stability of cemented hip arthroplasty: <i>in vitro</i> comparison of three commercial bone cements. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2010, 224, 53-65.	1.0	4
139	Mechanical testing of bones: the positive synergy of finite–element models and <i>in vitro</i> experiments. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 2725-2763.	1.6	63
140	The effect of vacuum mixing and pre-heating the femoral component on the mechanical properties of the cement mantle. Journal of Bone and Joint Surgery: British Volume, 2010, 92-B, 454-460.	3.4	6
141	Finite Element Modeling of Resurfacing Hip Prosthesis: Estimation of Accuracy Through Experimental Validation. Journal of Biomechanical Engineering, 2010, 132, 021002.	0.6	18
142	Polyethylene damage and deformation on fixed-bearing, non-conforming unicondylar knee replacements corresponding to progressive changes in alignment and fixation. Clinical Biomechanics, 2010, 25, 570-575.	0.5	15
143	Effect of undersizing on the long-term stability of the Exeter hip stem: A comparative in vitro study. Clinical Biomechanics, 2010, 25, 899-908.	0.5	17
144	Stress shielding and stress concentration of contemporary epiphyseal hip prostheses. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2009, 223, 27-44.	1.0	24

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145	Microindentation on cortical human bone: Effects of tissue condition and indentation location on hardness values. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2009, 223, 913-918.	1.0	25
146	The VPH-Physiome Project: Standards and Tools for Multiscale Modeling in Clinical Applications. IEEE Reviews in Biomedical Engineering, 2009, 2, 40-53.	13.1	28
147	Strain distribution in the proximal human femoral metaphysis. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2009, 223, 273-288.	1.0	62
148	Relationship between obesity and early failure of total knee prostheses. BMC Musculoskeletal Disorders, 2009, 10, 29.	0.8	79
149	Comments on "In Vitro Analysis of Exeter Stem Torsional Stability―by Bell CC, Weinrauch P, Pearcy M, Crawford R, Published on J Arthroplasty. 2007 Oct;22(7):1024-30. Journal of Arthroplasty, 2009, 24, 657-659.	1.5	0
150	Effect of head surface roughness and sterilization on wear of UHMWPE acetabular cups. Journal of Biomedical Materials Research - Part A, 2009, 90A, 1032-1042.	2.1	14
151	Is ceramicâ€onâ€ceramic squeaking phenomenon reproducible <i>in vitro</i> ? A longâ€term simulator study under severe conditions. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 91B, 264-271.	1.6	22
152	Ceramicâ€onâ€ceramic <i>vs.</i> /b> metalâ€onâ€metal in total hip arthroplasty (THA): do 36â€mm diamete exhibit comparable wear performance? Keramikâ€Keramik <i>vs.</i> Metallâ€Metall in Totalprothesenâ€Hüftgelenkspfanne†Arthroplastik: zeigen 36â€mm Durchmesser Ťnliche VerschleiÄŸverhalten?. Materialwissenschaft Und Werkstofftechnik, 2009, 40, 94-97.	ors 0.5	5
153	Letter to the Editor commenting on "Multilevel finite element modeling for the prediction of local cellular deformation in bone,―Deligianni DD and Apostolopoulos CA (2008) Biomech Model Mechanobiol 7(2):151–159. Biomechanics and Modeling in Mechanobiology, 2009, 8, 427-428.	1.4	1
154	Pre-clinical validation of joint prostheses: A systematic approach. Journal of the Mechanical Behavior of Biomedical Materials, 2009, 2, 120-127.	1.5	31
155	Tibia Adaptation after Fibula Harvesting: An in Vivo Quantitative Study. Clinical Orthopaedics and Related Research, 2009, 467, 2149-2158.	0.7	16
156	CMM–based procedure for polyethylene non-congruous unicompartmental knee prosthesis wear assessment. Wear, 2009, 267, 753-756.	1.5	27
157	Risk of failure during gait for direct skeletal attachment of a femoral prosthesis: A finite element study. Medical Engineering and Physics, 2009, 31, 595-600.	0.8	49
158	Wear behaviour in total ankle replacement: A comparison between an in vitro simulation and retrieved prostheses. Clinical Biomechanics, 2009, 24, 661-669.	0.5	25
159	Implant fixation in knee replacement: Preliminary in vitro comparison of ceramic and metal cemented femoral components. Knee, 2009, 16, 101-108.	0.8	27
160	Effect of stem preheating on the fatigue behaviour of bone cement around hip prostheses. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2009, 223, 637-641.	1.0	5
161	Designing a socio-economic assessment method for integrative biomedical research: the Osteoporotic Virtual Physiological Human project. Studies in Health Technology and Informatics, 2009, 150, 876-80.	0.2	4
162	Is Laterality Associated With a Higher Rate of Hip Arthroplasty on the Dominant Side?. Artificial Organs, 2008, 32, 73-77.	1.0	8

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163	An accurate estimation of bone density improves the accuracy of subject-specific finite element models. Journal of Biomechanics, 2008, 41, 2483-2491.	0.9	333
164	Dependence of mechanical compressive strength on local variations in microarchitecture in cancellous bone of proximal human femur. Journal of Biomechanics, 2008, 41, 438-446.	0.9	115
165	Subject-specific finite element models implementing a maximum principal strain criterion are able to estimate failure risk and fracture location on human femurs tested in vitro. Journal of Biomechanics, 2008, 41, 356-367.	0.9	304
166	On the mechanical stability of porous coated press fit titanium implants: A finite element study of a pushout test. Journal of Biomechanics, 2008, 41, 1675-1681.	0.9	20
167	Comparison of three standard anatomical reference frames for the tibia–fibula complex. Journal of Biomechanics, 2008, 41, 3384-3389.	0.9	20
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