

Heidi-lynn Ploeg

List of Publications by Citations

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

58
papers

973
citations

18
h-index

30
g-index

65
ext. papers

1,128
ext. citations

2.7
avg, IF

4.18
L-index

#	Paper	IF	Citations
58	Determination of orthotropic bone elastic constants using FEA and modal analysis. <i>Journal of Biomechanics</i> , 2002 , 35, 767-73	2.9	178
57	2404. Telavancin (TLV) and Vancomycin (VAN) Activity and Impact on Mechanical Properties When Incorporated into Orthopedic Bone Cement. <i>Open Forum Infectious Diseases</i> , 2018 , 5, S718-S718	1	78
56	Mechanical, material, and antimicrobial properties of acrylic bone cement impregnated with silver nanoparticles. <i>Materials Science and Engineering C</i> , 2015 , 48, 188-96	8.3	75
55	Modification of acrylic bone cement with mesoporous silica nanoparticles: effects on mechanical, fatigue and absorption properties. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 29, 451-61	4.1	44
54	Biodynamics. Influence of gender, power, and hand position on pelvic motion during seated cycling. <i>Medicine and Science in Sports and Exercise</i> , 2007 , 39, 2204-11	1.2	37
53	Mechanical characterization of injection-molded macro porous bioceramic bone scaffolds. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 9, 137-52	4.1	36
52	Gender differences in bicycle saddle pressure distribution during seated cycling. <i>Medicine and Science in Sports and Exercise</i> , 2008 , 40, 1126-34	1.2	36
51	Monitoring Motor Symptoms During Activities of Daily Living in Individuals With Parkinson Disease. <i>Frontiers in Neurology</i> , 2018 , 9, 1036	4.1	36
50	Compressive properties of trabecular bone in the distal femur. <i>Journal of Biomechanics</i> , 2008 , 41, 1077-85	9	34
49	Determination of the translational and rotational stiffnesses of an L4-L5 functional spinal unit using a specimen-specific finite element model. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 13, 45-61	4.1	31
48	Mice lacking pten in osteoblasts have improved intramembranous and late endochondral fracture healing. <i>PLoS ONE</i> , 2013 , 8, e63857	3.7	30
47	Precision, repeatability and accuracy of Optotrak optical motion tracking systems. <i>International Journal of Experimental and Computational Biomechanics</i> , 2009 , 1, 114		30
46	Vancomycin elution, activity and impact on mechanical properties when added to orthopedic bone cement. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 87, 80-86	4.1	26
45	The influence of glove and hand position on pressure over the ulnar nerve during cycling. <i>Clinical Biomechanics</i> , 2011 , 26, 642-8	2.2	22
44	The effect of sintering temperature on the microstructure and mechanical properties of a bioceramic bone scaffold. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011 , 4, 2150-60	4.1	22
43	Hip stem fatigue test prediction. <i>International Journal of Fatigue</i> , 2009 , 31, 894-905	5	22
42	Multiscale characterization of acrylic bone cement modified with functionalized mesoporous silica nanoparticles. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 37, 141-52	4.1	21

41	Bone remodelling of a proximal femur with the thrust plate prosthesis: an in vitro case. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2004 , 7, 131-7	2.1	18
40	The influence of low concentrations of a water soluble poragen on the material properties, antibiotic release, and biofilm inhibition of an acrylic bone cement. <i>Materials Science and Engineering C</i> , 2014 , 42, 168-76	8.3	17
39	The Influence of Crown Height to Diameter Ratio on the Force to Fracture of Canine Teeth in Dogs. <i>Journal of Veterinary Dentistry</i> , 2015 , 32, 155-63	1	17
38	Recovery of bone strength in young pigs from an induced short-term dietary calcium deficit followed by a calcium replete diet. <i>Medical Engineering and Physics</i> , 2010 , 32, 1116-23	2.4	16
37	Dependence of anisotropy of human lumbar vertebral trabecular bone on quantitative computed tomography-based apparent density. <i>Journal of Biomechanical Engineering</i> , 2014 , 136, 091003	2.1	15
36	Fracture healing in mice lacking Pten in osteoblasts: a micro-computed tomography image-based analysis of the mechanical properties of the femur. <i>Journal of Biomechanics</i> , 2015 , 48, 310-7	2.9	13
35	Effect of preparation surface area on the clinical outcome of full veneer crowns in dogs. <i>Journal of Veterinary Dentistry</i> , 2014 , 31, 22-5	1	12
34	Estimating the density of femoral head trabecular bone from hip fracture patients using computed tomography scan data. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2014 , 228, 616-626	1.7	11
33	Mechanical, elution, and antibacterial properties of simplex bone cement loaded with vancomycin. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 103, 103588	4.1	9
32	Residual Equinus After the Ponseti Method: An MRI-based 3-Dimensional Analysis. <i>Journal of Pediatric Orthopaedics</i> , 2018 , 38, e271-e277	2.4	8
31	Comparison of the influences of structural characteristics on bulk mechanical behaviour: experimental study using a bone surrogate. <i>Medical and Biological Engineering and Computing</i> , 2012 , 50, 61-7	3.1	8
30	Combined exposure to big endothelin-1 and mechanical loading in bovine sternal cores promotes osteogenesis. <i>Bone</i> , 2016 , 85, 115-22	4.7	7
29	Time-dependent fixation and implantation forces for a femoral knee component--an in vitro study. <i>Medical Engineering and Physics</i> , 2010 , 32, 968-73	2.4	7
28	The Influence of Force Direction on the Fracture Pattern and Fracture Resistance of Canine Teeth in Dogs. <i>Journal of Veterinary Dentistry</i> , 2017 , 34, 8-17	1	6
27	A new bone surrogate model for testing interbody device subsidence. <i>Spine</i> , 2011 , 36, 1289-96	3.3	6
26	Initial fixation of a femoral knee component: an in vitro and finite element study. <i>International Journal of Experimental and Computational Biomechanics</i> , 2009 , 1, 23		5
25	Post-yield relaxation behavior of bovine cancellous bone. <i>Journal of Biomechanics</i> , 2009 , 42, 2728-33	2.9	5
24	A Calibration Procedure for a Bone Loading System. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2008 , 2,	1.3	5

23	Repeatable calibration of Hounsfield units to mineral density and effect of scanning medium. <i>Advances in Biomechanics and Applications</i> , 2014 , 1, 15-22		5
22	Material and Mechanical Properties of Tricalcium Phosphate-Based (TCP) Scaffolds 2009 ,		4
21	Accounting for structural compliance in nanoindentation measurements of bioceramic bone scaffolds. <i>Ceramics International</i> , 2014 , 40, 12485-12492	5.1	3
20	Effect of insertion factors on dental implant insertion torque/energy-experimental results. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 112, 103995	4.1	3
19	The Influence of Axial Grooves on Dislodgment Resistance of Prosthetic Metal Crowns in Maxillary Fourth Premolar Teeth of Dogs. <i>Journal of Veterinary Dentistry</i> , 2016 , 33, 151-156	1	3
18	The Influence of Axial Grooves on Dislodgment Resistance of Prosthetic Metal Crowns in Canine Teeth of Dogs. <i>Journal of Veterinary Dentistry</i> , 2016 , 33, 146-150	1	3
17	Characterization of the quasi-static and viscoelastic properties of orthopaedic bone cement at the macro and nanoscale. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 1461-1468	3.5	2
16	Evaluation of experimental, analytical, and computational methods to determine long-bone bending stiffness. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 115, 104253	4.1	2
15	Design of a surrogate for evaluation of methods to predict bone bending stiffness. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 88, 346-351	4.1	2
14	Quantitative Comparison of Mathematical Models to Measure Surface Area of Canine Teeth Prepared to Receive Full Veneer Crowns in Dogs. <i>Frontiers in Veterinary Science</i> , 2015 , 2, 31	3.1	1
13	3D Elastomeric Scaffolds Fabricated by Casting in Micro End Milled Moulds. <i>Journal of Biomimetics, Biomaterials, and Tissue Engineering</i> , 2011 , 9, 17-23		1
12	Statistical shape modelling to analyse the talus in paediatric clubfoot. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2021 , 235, 849-860	1.7	0
11	The dependence of knee joint stability on the cruciate and collateral ligaments. <i>Movement and Sports Sciences - Science Et Motricite</i> , 2015 , 37-54	0.5	
10	Effect of Sintering Temperature on Microstructural Properties of Bioceramic Bone Scaffolds. <i>Ceramic Transactions</i> , 2012 , 101-109	0.1	
9	A methodology for the pre-clinical evaluation of patellar implants. <i>International Journal of Experimental and Computational Biomechanics</i> , 2009 , 1, 129		
8	Trabecular bone density distribution in the scapula of patients undergoing reverse shoulder arthroplasty.. <i>JSES International</i> , 2022 , 6, 32-39	1.2	
7	Evaluation of telavancin-loaded bone cement: Elution, eluate activity, and mechanical properties. <i>Materialia</i> , 2021 , 20, 101239	3.2	
6	Preclinical Analysis to Assess Aseptic Loosening of Orthopaedic Implants. <i>Lecture Notes in Bioengineering</i> , 2018 , 129-143	0.8	

5 Comparison of Two Bone Surrogates for Interbody Device Subsidence Testing **2012**, 15-24

4 Comparison of Two Bone Surrogates for Interbody Device Subsidence Testing **2012**, 15-24

3 Comparison of Two Bone Surrogates for Interbody Device Subsidence Testing. *Journal of ASTM International*, **2012**, 9, 103498

2 Data for vancomycin elution, activity and impact on mechanical properties when incorporated into orthopedic bone cement. *Data in Brief*, **2018**, 20, 14-19 1.2

1 Analytical model for dental implant insertion torque.. *Journal of the Mechanical Behavior of Biomedical Materials*, **2022**, 131, 105223 4.1