Timothy A Burkhart

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/567222/timothy-a-burkhart-publications-by-year.pdf

Version: 2024-04-27

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

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

51	698	13	25
papers	citations	h-index	g-index
55	805	3	4.19
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
51	Bone Volumes and Trajectory Angles for Acetabular Anchor Placement Can Be Optimized <i>Arthroscopy, Sports Medicine, and Rehabilitation</i> , 2022 , 4, e447-e452	2	
50	Novel quantification of the regional strain distribution in the anterior cruciate ligament in response to simulated loading using micro-CT imaging. <i>Journal of Experimental Orthopaedics</i> , 2021 , 8, 95	2.3	
49	Accuracy and precision of image-based strain measurement using embedded radiopaque markers. <i>Medical Engineering and Physics</i> , 2021 , 92, 88-92	2.4	2
48	No Difference in Ligamentous Strain or Knee Kinematics Between Rectangular or Cylindrical Femoral Tunnels During Anatomic ACL Reconstruction With a Bone-Patellar Tendon-Bone Graft. <i>Orthopaedic Journal of Sports Medicine</i> , 2021 , 9, 23259671211009523	3.5	1
47	Insertion of Small Diameter Radiopaque Tracking Beads into the Anterior Cruciate Ligament Results in Repeatable Strain Measurement Without Affecting the Material Properties. <i>Annals of Biomedical Engineering</i> , 2021 , 49, 98-105	4.7	2
46	Suture Tape Reduces Quadriceps Tendon Repair Gap Formation Compared With High-Strength Suture: A Cadaveric Biomechanical Analysis. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2020 , 36, 2260-2267	5.4	2
45	A fluoroscopic analysis of the length changes of the capsulo-osseous layer of the distal iliotibial band. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2020 , 28, 715-724	5.5	
44	Females Are Not Proportionally Smaller Males: Relationships Between Radius Anthropometrics and Their Sex Differences. <i>Hand</i> , 2020 , 15, 850-857	1.4	1
43	A synthetic bone insert may protect the lateral cortex and fixation plate following a high tibial osteotomy by reducing the tensile strains. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2020 , 28, 1814-1820	5.5	O
42	Complete Capsular Repair Restores Native Kinematics After Interportal and T-Capsulotomy. <i>American Journal of Sports Medicine</i> , 2019 , 47, 1451-1458	6.8	29
41	Development and validation of a finite element model to simulate the opening of a medial opening wedge high tibial osteotomy. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019 , 22, 442-449	2.1	3
40	Image-Based Comparison Between the Bilateral Symmetry of the Distal Radii Through Established Measures. <i>Journal of Hand Surgery</i> , 2019 , 44, 966-972	2.6	8
39	Comparison of trans-cortical and cancellous screws to press fit for acetabular shell fixation in total hip arthroplasty: A cadaveric study. <i>Clinical Biomechanics</i> , 2019 , 69, 34-38	2.2	3
38	Lateral Compartment Contact Pressures Do Not Increase After Lateral Extra-articular Tenodesis and Subsequent Subtotal Meniscectomy. <i>Orthopaedic Journal of Sports Medicine</i> , 2019 , 7, 23259671198	85 4 857	. 9
37	Development and Assessment of a Micro-CT Compatible Five Degree-of-Freedom Knee Joint Motion Simulator. <i>Journal of Biomechanical Engineering</i> , 2019 ,	2.1	6
36	The biomechanical and morphological characteristics of the ligamentum mucosum and its potential role in anterior knee pain. <i>Knee</i> , 2018 , 25, 1134-1141	2.6	4
35	A pilot hole does not reduce the strains or risk of fracture to the lateral cortex during and following a medial opening wedge high tibial osteotomy in cadaveric specimens. <i>Bone and Joint Research</i> , 2018 , 7, 166-172	4.2	7

(2014-2018)

34	Ligament Injury in the Anterior Cruciate Ligament-Deficient Knee. <i>American Journal of Sports Medicine</i> , 2018 , 46, 3391-3399	6.8	2	
33	The infra-meniscal fibers of the anterolateral ligament are stronger and stiffer than the supra-meniscal fibers despite similar histological characteristics. <i>Knee Surgery, Sports Traumatology, Arthroscopy,</i> 2017 , 25, 1078-1085	5.5	13	
32	The effect of asymmetrical body orientation during simulated forward falls on the distal upper extremity impact response of healthy people. <i>Journal of Electromyography and Kinesiology</i> , 2017 , 33, 48-56	2.5	3	
31	Reliability of Head, Neck, and Trunk Anthropometric Measurements Used for Predicting Segment Tissue Masses in Living Humans. <i>Journal of Applied Biomechanics</i> , 2017 , 33, 373-378	1.2		
30	Rotational Laxity Control by the Anterolateral Ligament and the Lateral Meniscus Is Dependent on Knee Flexion Angle: A Cadaveric Biomechanical Study. <i>Clinical Orthopaedics and Related Research</i> , 2017 , 475, 2401-2408	2.2	32	
29	Standard versus physiologic bone preparation in total knee arthroplasty and the effect on joint space opening. <i>Clinical Biomechanics</i> , 2017 , 49, 155-161	2.2		
28	Bikini versus traditional incision direct anterior approach: is there any difference in soft tissue damage?. <i>HIP International</i> , 2017 , 27, 397-400	1.7	19	
27	Laboratory Evaluation of the gForce Tracker la Head Impact Kinematic Measuring Device for Use in Football Helmets. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 1246-56	4.7	50	
26	Effect of Soft Tissue Releases on Joint Space Opening in Total Knee Arthroplasty. <i>Journal of Arthroplasty</i> , 2016 , 31, 2912-2916	4.4	4	
25	Effect of posture on forces and moments measured in a Hybrid III ATD lower leg. <i>Traffic Injury Prevention</i> , 2016 , 17, 381-5	1.8	O	
24	Finite-Element Analysis of Bone Stresses on Primary Impact in a Large-Animal Model: The Distal End of the Equine Third Metacarpal. <i>PLoS ONE</i> , 2016 , 11, e0159541	3.7	17	
23	Biomechanical analysis of simulated clinical testing and reconstruction of the anterolateral ligament of the knee. <i>American Journal of Sports Medicine</i> , 2015 , 43, 2189-97	6.8	167	
22	Anatomy of the proximal tibiofibular joint and interosseous membrane, and their contributions to joint kinematics in below-knee amputations. <i>Journal of Anatomy</i> , 2015 , 226, 143-9	2.9	5	
21	Leg soft tissue position and velocity data from skin markers can be obtained with good to acceptable reliability following heel impacts. <i>Journal of Sports Sciences</i> , 2015 , 33, 1606-13	3.6	3	
20	Biomechanical Analysis of Simulated Clinical Testing and Reconstruction of the ALL: Response. <i>American Journal of Sports Medicine</i> , 2015 , 43, NP41-2	6.8	1	
19	Effect of hoof orientation and ballast on acceleration and vibration in the hoof and distal forelimb following simulated impacts ex vivo. <i>Equine Veterinary Journal</i> , 2015 , 47, 223-9	2.4	6	
18	Development and validation of a distal radius finite element model to simulate impact loading indicative of a forward fall. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2014 , 228, 258-71	1.7	15	
17	Differences in distal lower extremity tissue masses and mass ratios exist in athletes of sports involving repetitive impacts. <i>Journal of Sports Sciences</i> , 2014 , 32, 533-41	3.6	6	

16	In vitro biomechanical evaluation of fibular movement in below knee amputations. <i>Clinical Biomechanics</i> , 2014 , 29, 551-5	2.2	1
15	The effect of static muscle forces on the fracture strength of the intact distal radius in vitro in response to simulated forward fall impacts. <i>Journal of Biomechanics</i> , 2014 , 47, 2672-8	2.9	3
14	Kinematics, kinetics and muscle activation patterns of the upper extremity during simulated forward falls. <i>Journal of Electromyography and Kinesiology</i> , 2013 , 23, 688-95	2.5	19
13	Multivariate injury risk criteria and injury probability scores for fractures to the distal radius. <i>Journal of Biomechanics</i> , 2013 , 46, 973-8	2.9	3
12	Finite element modeling mesh quality, energy balance and validation methods: a review with recommendations associated with the modeling of bone tissue. <i>Journal of Biomechanics</i> , 2013 , 46, 1477	,- 8 8	109
11	Tissue mass ratios and the reporting of distal lower extremity injuries in varsity athletes at a Canadian University. <i>Journal of Sports Sciences</i> , 2013 , 31, 684-7	3.6	8
10	Leg tissue mass composition affects tibial acceleration response following impact. <i>Journal of Applied Biomechanics</i> , 2012 , 28, 29-40	1.2	9
9	Failure characteristics of the isolated distal radius in response to dynamic impact loading. <i>Journal of Orthopaedic Research</i> , 2012 , 30, 885-92	3.8	8
8	Reliability of impact forces, hip angles and velocities during simulated forward falls using a novel Propelled Upper Limb fall ARrest Impact System (PULARIS). <i>Journal of Biomechanical Engineering</i> , 2012 , 134, 011001	2.1	5
7	Predicting distal radius bone strains and injury in response to impacts using multi-axial accelerometers. <i>Journal of Biomechanical Engineering</i> , 2012 , 134, 101007	2.1	2
6	Prediction of Upper and Lower Extremity Tissue Masses Using Surface Anthropometric Measures and DXA 2012 , 679-696		
5	Determining the optimal system-specific cut-off frequencies for filtering in-vitro upper extremity impact force and acceleration data by residual analysis. <i>Journal of Biomechanics</i> , 2011 , 44, 2728-31	2.9	13
4	Activation level of extensor carpi ulnaris affects wrist and elbow acceleration responses following simulated forward falls. <i>Journal of Electromyography and Kinesiology</i> , 2010 , 20, 1203-10	2.5	10
3	The effectiveness of wrist guards for reducing wrist and elbow accelerations resulting from simulated forward falls. <i>Journal of Applied Biomechanics</i> , 2010 , 26, 281-9	1.2	25
2	Manual segmentation of DXA scan images results in reliable upper and lower extremity soft and rigid tissue mass estimates. <i>Journal of Biomechanics</i> , 2009 , 42, 1138-42	2.9	42
1	Reliability of upper and lower extremity anthropometric measurements and the effect on tissue mass predictions. <i>Journal of Biomechanics</i> , 2008 , 41, 1604-10	2.9	20