

Timothy A Burkhart

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.

51
papers

698
citations

13
h-index

25
g-index

55
ext. papers

805
ext. citations

3
avg, IF

4.19
L-index

#	Paper	IF	Citations
51	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
50	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, 1477-88	2.9	109
49	Laboratory Evaluation of the gForce Tracker [®] Head Impact Kinematic Measuring Device for Use in Football Helmets. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 1246-56	4.7	50
48	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
47	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
46	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
45	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
44	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
43	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
42	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
41	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
40	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
39	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
38	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
37	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
36	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, 2325967119854657	3.5	9
35	Leg tissue mass composition affects tibial acceleration response following impact. <i>Journal of Applied Biomechanics</i> , 2012 , 28, 29-40	1.2	9

34	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
33	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
32	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
31	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
30	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
29	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
28	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
27	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
26	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
25	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
24	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
23	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
22	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
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	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
19	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
18	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
17	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

16	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
15	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
14	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
13	There Are No Kinematic Differences Between Inframeniscal and Suprameniscal Anterolateral Ligament Injury in the Anterior Cruciate Ligament-Deficient Knee. <i>American Journal of Sports Medicine</i> , 2018 , 46, 3391-3399	6.8	2
12	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
11	In vitro biomechanical evaluation of fibular movement in below knee amputations. <i>Clinical Biomechanics</i> , 2014 , 29, 551-5	2.2	1
10	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
9	Females Are Not Proportionally Smaller Males: Relationships Between Radius Anthropometrics and Their Sex Differences. <i>Hand</i> , 2020 , 15, 850-857	1.4	1
8	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	0
7	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	0
6	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	
5	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	
4	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	
3	Prediction of Upper and Lower Extremity Tissue Masses Using Surface Anthropometric Measures and DXA 2012 , 679-696		
2	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	
1	Bone Volumes and Trajectory Angles for Acetabular Anchor Placement Can Be Optimized.. <i>Arthroscopy, Sports Medicine, and Rehabilitation</i> , 2022 , 4, e447-e452	2	