Timothy R Derrick

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Lower extremity joint stiffness characteristics during running with different footfall patterns. European Journal of Sport Science, 2014, 14, 130-136.	2.7	474
2	Energy absorption of impacts during running at various stride lengths. Medicine and Science in Sports and Exercise, 1998, 30, 128-135.	0.4	228
3	Shock attenuation and stride frequency during running. Human Movement Science, 1995, 14, 45-60.	1.4	205
4	Impacts and kinematic adjustments during an exhaustive run. Medicine and Science in Sports and Exercise, 2002, 34, 998-1002.	0.4	195
5	The Effects of Knee Contact Angle on Impact Forces and Accelerations. Medicine and Science in Sports and Exercise, 2004, 36, 832-837.	0.4	166
6	Effects of Stride Length and Running Mileage on a Probabilistic Stress Fracture Model. Medicine and Science in Sports and Exercise, 2009, 41, 2177-2184.	0.4	153
7	In vitro study of foot kinematics using a dynamic walking cadaver model. Journal of Biomechanics, 2007, 40, 1927-1937.	2.1	122
8	Kinematic analysis of the hind limb during swimming and walking in healthy dogs and dogs with surgically corrected cranial cruciate ligament rupture. Journal of the American Veterinary Medical Association, 2003, 222, 739-743.	0.5	117
9	Impact shock frequency components and attenuation in rearfoot and forefoot running. Journal of Sport and Health Science, 2014, 3, 113-121.	6.5	113
10	Joint contact loading in forefoot and rearfoot strike patterns during running. Journal of Biomechanics, 2013, 46, 2201-2206.	2.1	107
11	Continuous Relative Phase Variability during an Exhaustive Run in Runners with a History of Iliotibial Band Syndrome. Journal of Applied Biomechanics, 2008, 24, 262-270.	0.8	106
12	ISB recommendations on the reporting of intersegmental forces and moments during human motion analysis. Journal of Biomechanics, 2020, 99, 109533.	2.1	104
13	Running injury and stride time variability over a prolonged run. Gait and Posture, 2011, 33, 36-40.	1.4	98
14	Internal femoral forces and moments during running: Implications for stress fracture development. Clinical Biomechanics, 2008, 23, 1269-1278.	1.2	92
15	Individual Effects of Stride Length and Frequency on Shock Attenuation during Running. Medicine and Science in Sports and Exercise, 2003, 35, 307-313.	0.4	88
16	Effects of running speed on a probabilistic stress fracture model. Clinical Biomechanics, 2010, 25, 372-377.	1.2	80
17	Rearfoot and Midfoot or Forefoot Impacts in Habitually Shod Runners. Medicine and Science in Sports and Exercise, 2014, 46, 1384-1391.	0.4	68
18	The relationship between preferred and optimal positioning during submaximal cycle ergometry. European Journal of Applied Physiology, 1997, 75, 160-165.	2.5	56

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19	Modeling the Stiffness Characteristics of the Human Body while Running with Various Stride Lengths. Journal of Applied Biomechanics, 2000, 16, 36-51.	0.8	55
20	Heel height affects lower extremity frontal plane joint moments during walking. Gait and Posture, 2012, 35, 483-488.	1.4	50
21	Effect of step width manipulation on tibial stress during running. Journal of Biomechanics, 2014, 47, 2738-2744.	2.1	47
22	Shock and impact reduction in moderate and strenuous landing activities. Sports Biomechanics, 2008, 7, 296-309.	1.6	43
23	Error in the description of foot kinematics due to violation of rigid body assumptions. Journal of Biomechanics, 2010, 43, 666-672.	2.1	43
24	Bone stress in runners with tibial stress fracture. Clinical Biomechanics, 2015, 30, 895-902.	1.2	43
25	Musculoskeletal Attenuation of Impact Shock in Response to Knee Angle Manipulation. Journal of Applied Biomechanics, 2012, 28, 502-510.	0.8	42
26	Hip joint contact force in the emu (Dromaius novaehollandiae) during normal level walking. Journal of Biomechanics, 2008, 41, 770-778.	2.1	36
27	An integrative modeling approach for the efficient estimation of cross sectional tibial stresses during locomotion. Journal of Biomechanics, 2016, 49, 429-435.	2.1	35
28	A comparison of the ground reaction force frequency content during rearfoot and non-rearfoot running patterns. Gait and Posture, 2017, 56, 54-59.	1.4	34
29	Select Injury-Related Variables Are Affected by Stride Length and Foot Strike Style During Running. American Journal of Sports Medicine, 2015, 43, 2310-2317.	4.2	33
30	Step width alters iliotibial band strain during running. Sports Biomechanics, 2012, 11, 464-472.	1.6	31
31	Femoral strain during walking predicted with muscle forces from static and dynamic optimization. Journal of Biomechanics, 2016, 49, 1206-1213.	2.1	31
32	Reconstructing Digital Signals Using Shannon's Sampling Theorem. Journal of Applied Biomechanics, 1997, 13, 226-238.	0.8	28
33	On the filtering of intersegmental loads during running. Gait and Posture, 2011, 34, 435-438.	1.4	28
34	Impact shock and attenuation during in-line skating. Medicine and Science in Sports and Exercise, 1997, 29, 1069-1075.	0.4	23
35	Estimating Tibial Stress throughout the Duration of a Treadmill Run. Medicine and Science in Sports and Exercise, 2019, 51, 2257-2264.	0.4	20
36	Peak and Per-Step Tibial Bone Stress During Walking and Running in Female and Male Recreational Runners. American Journal of Sports Medicine, 2021, 49, 2227-2237.	4.2	19

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37	Lower extremity joint loads in habitual rearfoot and mid/forefoot strike runners with normal and shortened stride lengths. Journal of Sports Sciences, 2018, 36, 499-505.	2.0	18
38	Muscle forces during running predicted by gradient-based and random search static optimisation algorithms. Computer Methods in Biomechanics and Biomedical Engineering, 2009, 12, 217-225.	1.6	17
39	Effects of Custom and Semi-Custom Foot Orthotics on Second Metatarsal Bone Strain during Dynamic Gait Simulation. Foot and Ankle International, 2009, 30, 998-1004.	2.3	16
40	The Use of External Transducers for Estimating Bone Strain at the Distal Tibia During Impact Activity. Journal of Biomechanical Engineering, 2009, 131, 051009.	1.3	14
41	Shoe cushioning affects lower extremity joint contact forces during running. Footwear Science, 2018, 10, 109-117.	2.1	14
42	The Effects of Postseason Break on Knee Biomechanics and Lower Extremity EMG in a Stop-Jump Task: Implications for ACL Injury. Journal of Applied Biomechanics, 2012, 28, 708-717.	0.8	13
43	Upper Extremity and Lower Back Moments during Carrying Tasks in Farm Children. Journal of Applied Biomechanics, 2009, 25, 149-155.	0.8	12
44	Kinematics and metabolic cost of running on an irregular treadmill surface. Journal of Sports Sciences, 2018, 36, 1103-1110.	2.0	11
45	Effects of Step Uncertainty on Impact Peaks, Shock Attenuation, and Knee/Subtalar Synchrony in Treadmill Running. Journal of Applied Biomechanics, 2003, 19, 60-70.	0.8	10
46	Ground/Foot Impacts: Measurement, Attenuation, and Consequences. Medicine and Science in Sports and Exercise, 2004, 36, 830-831.	0.4	9
47	Femoral Neck Stress in Older Adults During Stair Ascent and Descent. Journal of Applied Biomechanics, 2018, 34, 191-198.	0.8	9
48	GROUND/FOOT IMPACTS. Medicine and Science in Sports and Exercise, 2002, 34, S88.	0.4	8
49	Internal Tibial Forces and Moments During Graded Running. Journal of Biomechanical Engineering, 2022, 144, .	1.3	8
50	Effects of industrial polystyrene foam insulation pads on the center of pressure and load distribution in the forefeet of clinically normal horses. American Journal of Veterinary Research, 2011, 72, 628-633.	0.6	7
51	Tibial stress during running following a repeated calfâ€raise protocol. Scandinavian Journal of Medicine and Science in Sports, 2020, 30, 2382-2389.	2.9	7
52	Biomechanics: 40 Years On. Kinesiology Review, 2021, 10, 228-237.	0.6	6
53	Medial Longitudinal Arch Mechanics Before and After a 45-Minute Run. Journal of the American Podiatric Medical Association, 2014, 104, 349-356.	0.3	5
54	Ground Reaction Forces In Rearfoot And Forefoot Running Assessed By A Continuous Wavelet Transform. Medicine and Science in Sports and Exercise, 2015, 47, 710.	0.4	4

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55	Finite element analysis of femoral neck strains during stair ascent and descent. Scientific Reports, 2021, 11, 9183.	3.3	3
56	Calibration Of Built-in Accelerometers Using A Commercially Available Smartphone Medicine and Science in Sports and Exercise, 2014, 46, 789.	0.4	2
57	Vest-borne Loads Increase Bending Moments at the Distal Tibia. Medicine and Science in Sports and Exercise, 2017, 49, 774-775.	0.4	2
58	Joint Contact Forces with Changes in Running Stride Length and Midsole Stiffness. Journal of Science in Sport and Exercise, 2020, 2, 69-76.	1.0	2
59	Time Series Analysis in Biomechanics. , 2017, , 1-24.		2
60	Measuring femoral neck loads in healthy young and older adults during stair ascent and descent. PLoS ONE, 2021, 16, e0245658.	2.5	1
61	Time Series Analysis in Biomechanics. , 2018, , 349-371.		1
62	Internal Tibial Forces and Moments During Graded Running. Journal of Biomechanical Engineering, 2022, , .	1.3	1
63	Influence of shoe and surface interaction on running economy. Journal of Biomechanics, 1994, 27, 662.	2.1	0
64	Free Communication/Slide – Equipment Design and Performance. Medicine and Science in Sports and Exercise, 2006, 38, 78.	0.4	0
65	Internal Tibial Forces and Moments in Runners with a History of Stress Fractures. Medicine and Science in Sports and Exercise, 2011, 43, 690.	0.4	0
66	Predicting Arch Motion during Walking and Running from Static Measures. Medicine and Science in Sports and Exercise, 2011, 43, 61.	0.4	0
67	IMPACT SHOCK ATTENUATION URING LANDINGS FROM DIFFERENT EIGHTS. Medicine and Science in Sports and Exercise, 2001, 33, S42.	0.4	0
68	GAIT CHANGES WITH UNILATERAL AND BILATERAL UPPER EXTREMITY LOADING. Medicine and Science in Sports and Exercise, 2002, 34, S279.	0.4	0
69	INFLUENCE OF KNOWLEDGE OF LOAD MAGNITUDE ON L5/S1 COMPRESSIVE FORCES DURING LIFTING. Medicine and Science in Sports and Exercise, 2003, 35, S266.	0.4	0
70	The Effect of Knee Angle at Contact on Impacts While Running off a Raised Platform. Medicine and Science in Sports and Exercise, 2004, 36, S57.	0.4	0
71	The Effect of Knee Angle at Contact on Impacts While Running off a Raised Platform. Medicine and Science in Sports and Exercise, 2004, 36, S57.	0.4	0
72	Frequency Distribution of Leg Impacts during Daily Activity and Exercise. Medicine and Science in Sports and Exercise, 2004, 36, S294-S295.	0.4	0

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73	Spectral Analysis of Impact Accelerations Using Bone Versus Surface Mounted Accelerometers. Medicine and Science in Sports and Exercise, 2006, 38, S267.	0.4	0
74	Impact Attenuation in Older Adult Runners. Medicine and Science in Sports and Exercise, 2006, 38, S65.	0.4	0
75	Age and Condition Related Differences During Carrying Tasks in Farm Youth. Medicine and Science in Sports and Exercise, 2006, 38, S238.	0.4	0
76	Feasibility of Calibrating Smartphone to Access Physical Activity. The Korean Journal of Measurement and Evaluation in Physical Education and Sports Science, 2015, 17, 49-64.	0.2	0
77	Finite Element Analysis of Femoral Strains in Older Adults During Stair Ascent and Descent. Journal of Science in Sport and Exercise, 0, , 1.	1.0	0