

Timothy R Derrick

List of Publications by Year in Descending Order

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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.

64
papers

2,518
citations

26
h-index

50
g-index

77
ext. papers

3,006
ext. citations

1.9
avg, IF

5.25
L-index

#	Paper	IF	Citations
64	Finite element analysis of femoral neck strains during stair ascent and descent. <i>Scientific Reports</i> , 2021 , 11, 9183	4.9	0
63	Peak and Per-Step Tibial Bone Stress During Walking and Running in Female and Male Recreational Runners. <i>American Journal of Sports Medicine</i> , 2021 , 49, 2227-2237	6.8	2
62	Biomechanics: 40 Years On. <i>Kinesiology Review</i> , 2021 , 10, 228-237	2	3
61	Measuring femoral neck loads in healthy young and older adults during stair ascent and descent. <i>PLoS ONE</i> , 2021 , 16, e0245658	3.7	
60	ISB recommendations on the reporting of intersegmental forces and moments during human motion analysis. <i>Journal of Biomechanics</i> , 2020 , 99, 109533	2.9	37
59	Tibial stress during running following a repeated calf-raise protocol. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2020 , 30, 2382-2389	4.6	2
58	Joint Contact Forces with Changes in Running Stride Length and Midsole Stiffness. <i>Journal of Science in Sport and Exercise</i> , 2020 , 2, 69-76	1	0
57	Estimating Tibial Stress throughout the Duration of a Treadmill Run. <i>Medicine and Science in Sports and Exercise</i> , 2019 , 51, 2257-2264	1.2	8
56	Femoral Neck Stress in Older Adults During Stair Ascent and Descent. <i>Journal of Applied Biomechanics</i> , 2018 , 34, 191-198	1.2	6
55	Lower extremity joint loads in habitual rearfoot and mid/forefoot strike runners with normal and shortened stride lengths. <i>Journal of Sports Sciences</i> , 2018 , 36, 499-505	3.6	15
54	Time Series Analysis in Biomechanics 2018 , 349-371		1
53	Kinematics and metabolic cost of running on an irregular treadmill surface. <i>Journal of Sports Sciences</i> , 2018 , 36, 1103-1110	3.6	8
52	Shoe cushioning affects lower extremity joint contact forces during running. <i>Footwear Science</i> , 2018 , 10, 109-117	1.4	8
51	A comparison of the ground reaction force frequency content during rearfoot and non-rearfoot running patterns. <i>Gait and Posture</i> , 2017 , 56, 54-59	2.6	20
50	Vest-borne Loads Increase Bending Moments at the Distal Tibia. <i>Medicine and Science in Sports and Exercise</i> , 2017 , 49, 774-775	1.2	
49	Time Series Analysis in Biomechanics 2017 , 1-24		1
48	Femoral strain during walking predicted with muscle forces from static and dynamic optimization. <i>Journal of Biomechanics</i> , 2016 , 49, 1206-1213	2.9	23

47	An integrative modeling approach for the efficient estimation of cross sectional tibial stresses during locomotion. <i>Journal of Biomechanics</i> , 2016 , 49, 429-35	2.9	20
46	Select injury-related variables are affected by stride length and foot strike style during running. <i>American Journal of Sports Medicine</i> , 2015 , 43, 2310-7	6.8	25
45	Bone stress in runners with tibial stress fracture. <i>Clinical Biomechanics</i> , 2015 , 30, 895-902	2.2	29
44	Ground Reaction Forces In Rearfoot And Forefoot Running Assessed By A Continuous Wavelet Transform. <i>Medicine and Science in Sports and Exercise</i> , 2015 , 47, 710	1.2	3
43	Feasibility of Calibrating Smartphone to Access Physical Activity. <i>The Korean Journal of Measurement and Evaluation in Physical Education and Sports Science</i> , 2015 , 17, 49-64	0	
42	Lower extremity joint stiffness characteristics during running with different footfall patterns. <i>European Journal of Sport Science</i> , 2014 , 14, 130-6	3.9	298
41	Medial longitudinal arch mechanics before and after a 45-minute run. <i>Journal of the American Podiatric Medical Association</i> , 2014 , 104, 349-56	1	3
40	Impact shock frequency components and attenuation in rearfoot and forefoot running. <i>Journal of Sport and Health Science</i> , 2014 , 3, 113-121	8.2	84
39	Effect of step width manipulation on tibial stress during running. <i>Journal of Biomechanics</i> , 2014 , 47, 2738-44	2.9	35
38	Rearfoot and midfoot or forefoot impacts in habitually shod runners. <i>Medicine and Science in Sports and Exercise</i> , 2014 , 46, 1384-91	1.2	58
37	Joint contact loading in forefoot and rearfoot strike patterns during running. <i>Journal of Biomechanics</i> , 2013 , 46, 2201-6	2.9	91
36	The effects of postseason break on knee biomechanics and lower extremity EMG in a stop-jump task: implications for ACL injury. <i>Journal of Applied Biomechanics</i> , 2012 , 28, 708-17	1.2	12
35	Musculoskeletal attenuation of impact shock in response to knee angle manipulation. <i>Journal of Applied Biomechanics</i> , 2012 , 28, 502-10	1.2	32
34	Heel height affects lower extremity frontal plane joint moments during walking. <i>Gait and Posture</i> , 2012 , 35, 483-8	2.6	37
33	Step width alters iliotibial band strain during running. <i>Sports Biomechanics</i> , 2012 , 11, 464-72	2.2	26
32	Running injury and stride time variability over a prolonged run. <i>Gait and Posture</i> , 2011 , 33, 36-40	2.6	70
31	On the filtering of intersegmental loads during running. <i>Gait and Posture</i> , 2011 , 34, 435-8	2.6	23
30	Effects of industrial polystyrene foam insulation pads on the center of pressure and load distribution in the forefeet of clinically normal horses. <i>American Journal of Veterinary Research</i> , 2011 , 72, 628-33	1.1	6

29	Effects of running speed on a probabilistic stress fracture model. <i>Clinical Biomechanics</i> , 2010 , 25, 372-7	2.2	57
28	Error in the description of foot kinematics due to violation of rigid body assumptions. <i>Journal of Biomechanics</i> , 2010 , 43, 666-72	2.9	37
27	The use of external transducers for estimating bone strain at the distal tibia during impact activity. <i>Journal of Biomechanical Engineering</i> , 2009 , 131, 051009	2.1	13
26	Muscle forces during running predicted by gradient-based and random search static optimisation algorithms. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2009 , 12, 217-225	2.1	15
25	Effects of custom and semi-custom foot orthotics on second metatarsal bone strain during dynamic gait simulation. <i>Foot and Ankle International</i> , 2009 , 30, 998-1004	3.3	14
24	Effects of stride length and running mileage on a probabilistic stress fracture model. <i>Medicine and Science in Sports and Exercise</i> , 2009 , 41, 2177-84	1.2	121
23	Upper extremity and lower back moments during carrying tasks in farm children. <i>Journal of Applied Biomechanics</i> , 2009 , 25, 149-55	1.2	8
22	Shock and impact reduction in moderate and strenuous landing activities. <i>Sports Biomechanics</i> , 2008 , 7, 296-309	2.2	36
21	Internal femoral forces and moments during running: implications for stress fracture development. <i>Clinical Biomechanics</i> , 2008 , 23, 1269-78	2.2	72
20	Continuous relative phase variability during an exhaustive run in runners with a history of iliotibial band syndrome. <i>Journal of Applied Biomechanics</i> , 2008 , 24, 262-70	1.2	91
19	Hip joint contact force in the emu (<i>Dromaius novaehollandiae</i>) during normal level walking. <i>Journal of Biomechanics</i> , 2008 , 41, 770-8	2.9	30
18	In vitro study of foot kinematics using a dynamic walking cadaver model. <i>Journal of Biomechanics</i> , 2007 , 40, 1927-37	2.9	97
17	The effects of knee contact angle on impact forces and accelerations. <i>Medicine and Science in Sports and Exercise</i> , 2004 , 36, 832-7	1.2	124
16	Ground/foot impacts: measurement, attenuation, and consequences. <i>Medicine and Science in Sports and Exercise</i> , 2004 , 36, 830-1	1.2	7
15	Individual effects of stride length and frequency on shock attenuation during running. <i>Medicine and Science in Sports and Exercise</i> , 2003 , 35, 307-13	1.2	74
14	Effects of Step Uncertainty on Impact Peaks, Shock Attenuation, and Knee/Subtalar Synchrony in Treadmill Running. <i>Journal of Applied Biomechanics</i> , 2003 , 19, 60-70	1.2	9
13	Kinematic analysis of the hind limb during swimming and walking in healthy dogs and dogs with surgically corrected cranial cruciate ligament rupture. <i>Journal of the American Veterinary Medical Association</i> , 2003 , 222, 739-43	1	95
12	INFLUENCE OF KNOWLEDGE OF LOAD MAGNITUDE ON L5/S1 COMPRESSIVE FORCES DURING LIFTING. <i>Medicine and Science in Sports and Exercise</i> , 2003 , 35, S266	1.2	

11	GROUND/FOOT IMPACTS. <i>Medicine and Science in Sports and Exercise</i> , 2002 , 34, S88	1.2	6
10	Impacts and kinematic adjustments during an exhaustive run. <i>Medicine and Science in Sports and Exercise</i> , 2002 , 34, 998-1002	1.2	146
9	GAIT CHANGES WITH UNILATERAL AND BILATERAL UPPER EXTREMITY LOADING. <i>Medicine and Science in Sports and Exercise</i> , 2002 , 34, S279	1.2	
8	IMPACT SHOCK ATTENUATION DURING LANDINGS FROM DIFFERENT HEIGHTS. <i>Medicine and Science in Sports and Exercise</i> , 2001 , 33, S42	1.2	
7	Modeling the Stiffness Characteristics of the Human Body while Running with Various Stride Lengths. <i>Journal of Applied Biomechanics</i> , 2000 , 16, 36-51	1.2	47
6	Energy absorption of impacts during running at various stride lengths. <i>Medicine and Science in Sports and Exercise</i> , 1998 , 30, 128-35	1.2	184
5	Reconstructing Digital Signals Using Shannon's Sampling Theorem. <i>Journal of Applied Biomechanics</i> , 1997 , 13, 226-238	1.2	19
4	The relationship between preferred and optimal positioning during submaximal cycle ergometry. <i>European Journal of Applied Physiology</i> , 1997 , 75, 160-5	3-4	49
3	Impact shock and attenuation during in-line skating. <i>Medicine and Science in Sports and Exercise</i> , 1997 , 29, 1069-75	1.2	16
2	Shock attenuation and stride frequency during running. <i>Human Movement Science</i> , 1995 , 14, 45-60	2.4	165
1	Finite Element Analysis of Femoral Strains in Older Adults During Stair Ascent and Descent. <i>Journal of Science in Sport and Exercise</i> , 1	1	