

# Timothy R Derrick

## 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.

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	Lower extremity joint stiffness characteristics during running with different footfall patterns. <i>European Journal of Sport Science</i> , <b>2014</b> , 14, 130-6	3.9	298
63	Energy absorption of impacts during running at various stride lengths. <i>Medicine and Science in Sports and Exercise</i> , <b>1998</b> , 30, 128-35	1.2	184
62	Shock attenuation and stride frequency during running. <i>Human Movement Science</i> , <b>1995</b> , 14, 45-60	2.4	165
61	Impacts and kinematic adjustments during an exhaustive run. <i>Medicine and Science in Sports and Exercise</i> , <b>2002</b> , 34, 998-1002	1.2	146
60	The effects of knee contact angle on impact forces and accelerations. <i>Medicine and Science in Sports and Exercise</i> , <b>2004</b> , 36, 832-7	1.2	124
59	Effects of stride length and running mileage on a probabilistic stress fracture model. <i>Medicine and Science in Sports and Exercise</i> , <b>2009</b> , 41, 2177-84	1.2	121
58	In vitro study of foot kinematics using a dynamic walking cadaver model. <i>Journal of Biomechanics</i> , <b>2007</b> , 40, 1927-37	2.9	97
57	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> , <b>2003</b> , 222, 739-43	1	95
56	Joint contact loading in forefoot and rearfoot strike patterns during running. <i>Journal of Biomechanics</i> , <b>2013</b> , 46, 2201-6	2.9	91
55	Continuous relative phase variability during an exhaustive run in runners with a history of iliotibial band syndrome. <i>Journal of Applied Biomechanics</i> , <b>2008</b> , 24, 262-70	1.2	91
54	Impact shock frequency components and attenuation in rearfoot and forefoot running. <i>Journal of Sport and Health Science</i> , <b>2014</b> , 3, 113-121	8.2	84
53	Individual effects of stride length and frequency on shock attenuation during running. <i>Medicine and Science in Sports and Exercise</i> , <b>2003</b> , 35, 307-13	1.2	74
52	Internal femoral forces and moments during running: implications for stress fracture development. <i>Clinical Biomechanics</i> , <b>2008</b> , 23, 1269-78	2.2	72
51	Running injury and stride time variability over a prolonged run. <i>Gait and Posture</i> , <b>2011</b> , 33, 36-40	2.6	70
50	Rearfoot and midfoot or forefoot impacts in habitually shod runners. <i>Medicine and Science in Sports and Exercise</i> , <b>2014</b> , 46, 1384-91	1.2	58
49	Effects of running speed on a probabilistic stress fracture model. <i>Clinical Biomechanics</i> , <b>2010</b> , 25, 372-7	2.2	57
48	The relationship between preferred and optimal positioning during submaximal cycle ergometry. <i>European Journal of Applied Physiology</i> , <b>1997</b> , 75, 160-5	3.4	49

47	Modeling the Stiffness Characteristics of the Human Body while Running with Various Stride Lengths. <i>Journal of Applied Biomechanics</i> , <b>2000</b> , 16, 36-51	1.2	47
46	Heel height affects lower extremity frontal plane joint moments during walking. <i>Gait and Posture</i> , <b>2012</b> , 35, 483-8	2.6	37
45	Error in the description of foot kinematics due to violation of rigid body assumptions. <i>Journal of Biomechanics</i> , <b>2010</b> , 43, 666-72	2.9	37
44	ISB recommendations on the reporting of intersegmental forces and moments during human motion analysis. <i>Journal of Biomechanics</i> , <b>2020</b> , 99, 109533	2.9	37
43	Shock and impact reduction in moderate and strenuous landing activities. <i>Sports Biomechanics</i> , <b>2008</b> , 7, 296-309	2.2	36
42	Effect of step width manipulation on tibial stress during running. <i>Journal of Biomechanics</i> , <b>2014</b> , 47, 2738-44	2.9	35
41	Musculoskeletal attenuation of impact shock in response to knee angle manipulation. <i>Journal of Applied Biomechanics</i> , <b>2012</b> , 28, 502-10	1.2	32
40	Hip joint contact force in the emu ( <i>Dromaius novaehollandiae</i> ) during normal level walking. <i>Journal of Biomechanics</i> , <b>2008</b> , 41, 770-8	2.9	30
39	Bone stress in runners with tibial stress fracture. <i>Clinical Biomechanics</i> , <b>2015</b> , 30, 895-902	2.2	29
38	Step width alters iliotibial band strain during running. <i>Sports Biomechanics</i> , <b>2012</b> , 11, 464-72	2.2	26
37	Select injury-related variables are affected by stride length and foot strike style during running. <i>American Journal of Sports Medicine</i> , <b>2015</b> , 43, 2310-7	6.8	25
36	Femoral strain during walking predicted with muscle forces from static and dynamic optimization. <i>Journal of Biomechanics</i> , <b>2016</b> , 49, 1206-1213	2.9	23
35	On the filtering of intersegmental loads during running. <i>Gait and Posture</i> , <b>2011</b> , 34, 435-8	2.6	23
34	A comparison of the ground reaction force frequency content during rearfoot and non-rearfoot running patterns. <i>Gait and Posture</i> , <b>2017</b> , 56, 54-59	2.6	20
33	An integrative modeling approach for the efficient estimation of cross sectional tibial stresses during locomotion. <i>Journal of Biomechanics</i> , <b>2016</b> , 49, 429-35	2.9	20
32	Reconstructing Digital Signals Using Shannon's Sampling Theorem. <i>Journal of Applied Biomechanics</i> , <b>1997</b> , 13, 226-238	1.2	19
31	Impact shock and attenuation during in-line skating. <i>Medicine and Science in Sports and Exercise</i> , <b>1997</b> , 29, 1069-75	1.2	16
30	Lower extremity joint loads in habitual rearfoot and mid/forefoot strike runners with normal and shortened stride lengths. <i>Journal of Sports Sciences</i> , <b>2018</b> , 36, 499-505	3.6	15

29	Muscle forces during running predicted by gradient-based and random search static optimisation algorithms. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2009</b> , 12, 217-225	2.1	15
28	Effects of custom and semi-custom foot orthotics on second metatarsal bone strain during dynamic gait simulation. <i>Foot and Ankle International</i> , <b>2009</b> , 30, 998-1004	3.3	14
27	The use of external transducers for estimating bone strain at the distal tibia during impact activity. <i>Journal of Biomechanical Engineering</i> , <b>2009</b> , 131, 051009	2.1	13
26	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> , <b>2012</b> , 28, 708-17	1.2	12
25	Effects of Step Uncertainty on Impact Peaks, Shock Attenuation, and Knee/Subtalar Synchrony in Treadmill Running. <i>Journal of Applied Biomechanics</i> , <b>2003</b> , 19, 60-70	1.2	9
24	Upper extremity and lower back moments during carrying tasks in farm children. <i>Journal of Applied Biomechanics</i> , <b>2009</b> , 25, 149-55	1.2	8
23	Estimating Tibial Stress throughout the Duration of a Treadmill Run. <i>Medicine and Science in Sports and Exercise</i> , <b>2019</b> , 51, 2257-2264	1.2	8
22	Kinematics and metabolic cost of running on an irregular treadmill surface. <i>Journal of Sports Sciences</i> , <b>2018</b> , 36, 1103-1110	3.6	8
21	Shoe cushioning affects lower extremity joint contact forces during running. <i>Footwear Science</i> , <b>2018</b> , 10, 109-117	1.4	8
20	Ground/foot impacts: measurement, attenuation, and consequences. <i>Medicine and Science in Sports and Exercise</i> , <b>2004</b> , 36, 830-1	1.2	7
19	Femoral Neck Stress in Older Adults During Stair Ascent and Descent. <i>Journal of Applied Biomechanics</i> , <b>2018</b> , 34, 191-198	1.2	6
18	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> , <b>2011</b> , 72, 628-33	1.1	6
17	GROUND/FOOT IMPACTS. <i>Medicine and Science in Sports and Exercise</i> , <b>2002</b> , 34, S88	1.2	6
16	Medial longitudinal arch mechanics before and after a 45-minute run. <i>Journal of the American Podiatric Medical Association</i> , <b>2014</b> , 104, 349-56	1	3
15	Ground Reaction Forces In Rearfoot And Forefoot Running Assessed By A Continuous Wavelet Transform. <i>Medicine and Science in Sports and Exercise</i> , <b>2015</b> , 47, 710	1.2	3
14	Biomechanics: 40 Years On. <i>Kinesiology Review</i> , <b>2021</b> , 10, 228-237	2	3
13	Tibial stress during running following a repeated calf-raise protocol. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2020</b> , 30, 2382-2389	4.6	2
12	Peak and Per-Step Tibial Bone Stress During Walking and Running in Female and Male Recreational Runners. <i>American Journal of Sports Medicine</i> , <b>2021</b> , 49, 2227-2237	6.8	2

11	Time Series Analysis in Biomechanics <b>2018</b> , 349-371		1
10	Time Series Analysis in Biomechanics <b>2017</b> , 1-24		1
9	Finite element analysis of femoral neck strains during stair ascent and descent. <i>Scientific Reports</i> , <b>2021</b> , 11, 9183	4.9	0
8	Joint Contact Forces with Changes in Running Stride Length and Midsole Stiffness. <i>Journal of Science in Sport and Exercise</i> , <b>2020</b> , 2, 69-76	1	0
7	Vest-borne Loads Increase Bending Moments at the Distal Tibia. <i>Medicine and Science in Sports and Exercise</i> , <b>2017</b> , 49, 774-775	1.2	
6	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	
5	IMPACT SHOCK ATTENUATION URING LANDINGS FROM DIFFERENT EIGHTS. <i>Medicine and Science in Sports and Exercise</i> , <b>2001</b> , 33, S42	1.2	
4	GAIT CHANGES WITH UNILATERAL AND BILATERAL UPPER EXTREMITY LOADING. <i>Medicine and Science in Sports and Exercise</i> , <b>2002</b> , 34, S279	1.2	
3	INFLUENCE OF KNOWLEDGE OF LOAD MAGNITUDE ON L5/S1 COMPRESSIVE FORCES DURING LIFTING. <i>Medicine and Science in Sports and Exercise</i> , <b>2003</b> , 35, S266	1.2	
2	Feasibility of Calibrating Smartphone to Access Physical Activity. <i>The Korean Journal of Measurement and Evaluation in Physical Education and Sports Science</i> , <b>2015</b> , 17, 49-64	0	
1	Measuring femoral neck loads in healthy young and older adults during stair ascent and descent. <i>PLoS ONE</i> , <b>2021</b> , 16, e0245658	3.7	