

Timothy R Derrick

List of Publications by Year in descending order

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77
papers

3,415
citations

172443

29
h-index

155644

55
g-index

77
all docs

77
docs citations

77
times ranked

2122
citing authors

#	ARTICLE	IF	CITATIONS
1	Lower extremity joint stiffness characteristics during running with different footfall patterns. <i>European Journal of Sport Science</i> , 2014, 14, 130-136.	2.7	474
2	Energy absorption of impacts during running at various stride lengths. <i>Medicine and Science in Sports and Exercise</i> , 1998, 30, 128-135.	0.4	228
3	Shock attenuation and stride frequency during running. <i>Human Movement Science</i> , 1995, 14, 45-60.	1.4	205
4	Impacts and kinematic adjustments during an exhaustive run. <i>Medicine and Science in Sports and Exercise</i> , 2002, 34, 998-1002.	0.4	195
5	The Effects of Knee Contact Angle on Impact Forces and Accelerations. <i>Medicine and Science in Sports and Exercise</i> , 2004, 36, 832-837.	0.4	166
6	Effects of Stride Length and Running Mileage on a Probabilistic Stress Fracture Model. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 2177-2184.	0.4	153
7	In vitro study of foot kinematics using a dynamic walking cadaver model. <i>Journal of Biomechanics</i> , 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. <i>Journal of the American Veterinary Medical Association</i> , 2003, 222, 739-743.	0.5	117
9	Impact shock frequency components and attenuation in rearfoot and forefoot running. <i>Journal of Sport and Health Science</i> , 2014, 3, 113-121.	6.5	113
10	Joint contact loading in forefoot and rearfoot strike patterns during running. <i>Journal of Biomechanics</i> , 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. <i>Journal of Applied Biomechanics</i> , 2008, 24, 262-270.	0.8	106
12	ISB recommendations on the reporting of intersegmental forces and moments during human motion analysis. <i>Journal of Biomechanics</i> , 2020, 99, 109533.	2.1	104
13	Running injury and stride time variability over a prolonged run. <i>Gait and Posture</i> , 2011, 33, 36-40.	1.4	98
14	Internal femoral forces and moments during running: Implications for stress fracture development. <i>Clinical Biomechanics</i> , 2008, 23, 1269-1278.	1.2	92
15	Individual Effects of Stride Length and Frequency on Shock Attenuation during Running. <i>Medicine and Science in Sports and Exercise</i> , 2003, 35, 307-313.	0.4	88
16	Effects of running speed on a probabilistic stress fracture model. <i>Clinical Biomechanics</i> , 2010, 25, 372-377.	1.2	80
17	Rearfoot and Midfoot or Forefoot Impacts in Habitually Shod Runners. <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 1384-1391.	0.4	68
18	The relationship between preferred and optimal positioning during submaximal cycle ergometry. <i>European Journal of Applied Physiology</i> , 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. <i>Journal of Applied Biomechanics</i> , 2000, 16, 36-51.	0.8	55
20	Heel height affects lower extremity frontal plane joint moments during walking. <i>Gait and Posture</i> , 2012, 35, 483-488.	1.4	50
21	Effect of step width manipulation on tibial stress during running. <i>Journal of Biomechanics</i> , 2014, 47, 2738-2744.	2.1	47
22	Shock and impact reduction in moderate and strenuous landing activities. <i>Sports Biomechanics</i> , 2008, 7, 296-309.	1.6	43
23	Error in the description of foot kinematics due to violation of rigid body assumptions. <i>Journal of Biomechanics</i> , 2010, 43, 666-672.	2.1	43
24	Bone stress in runners with tibial stress fracture. <i>Clinical Biomechanics</i> , 2015, 30, 895-902.	1.2	43
25	Musculoskeletal Attenuation of Impact Shock in Response to Knee Angle Manipulation. <i>Journal of Applied Biomechanics</i> , 2012, 28, 502-510.	0.8	42
26	Hip joint contact force in the emu (<i>Dromaius novaehollandiae</i>) during normal level walking. <i>Journal of Biomechanics</i> , 2008, 41, 770-778.	2.1	36
27	An integrative modeling approach for the efficient estimation of cross sectional tibial stresses during locomotion. <i>Journal of Biomechanics</i> , 2016, 49, 429-435.	2.1	35
28	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.	1.4	34
29	Select Injury-Related Variables Are Affected by Stride Length and Foot Strike Style During Running. <i>American Journal of Sports Medicine</i> , 2015, 43, 2310-2317.	4.2	33
30	Step width alters iliotibial band strain during running. <i>Sports Biomechanics</i> , 2012, 11, 464-472.	1.6	31
31	Femoral strain during walking predicted with muscle forces from static and dynamic optimization. <i>Journal of Biomechanics</i> , 2016, 49, 1206-1213.	2.1	31
32	Reconstructing Digital Signals Using Shannon's Sampling Theorem. <i>Journal of Applied Biomechanics</i> , 1997, 13, 226-238.	0.8	28
33	On the filtering of intersegmental loads during running. <i>Gait and Posture</i> , 2011, 34, 435-438.	1.4	28
34	Impact shock and attenuation during in-line skating. <i>Medicine and Science in Sports and Exercise</i> , 1997, 29, 1069-1075.	0.4	23
35	Estimating Tibial Stress throughout the Duration of a Treadmill Run. <i>Medicine and Science in Sports and Exercise</i> , 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. <i>American Journal of Sports Medicine</i> , 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. <i>Journal of Sports Sciences</i> , 2018, 36, 499-505.	2.0	18
38	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.	1.6	17
39	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.	2.3	16
40	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.	1.3	14
41	Shoe cushioning affects lower extremity joint contact forces during running. <i>Footwear Science</i> , 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. <i>Journal of Applied Biomechanics</i> , 2012, 28, 708-717.	0.8	13
43	Upper Extremity and Lower Back Moments during Carrying Tasks in Farm Children. <i>Journal of Applied Biomechanics</i> , 2009, 25, 149-155.	0.8	12
44	Kinematics and metabolic cost of running on an irregular treadmill surface. <i>Journal of Sports Sciences</i> , 2018, 36, 1103-1110.	2.0	11
45	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.	0.8	10
46	Ground/Foot Impacts: Measurement, Attenuation, and Consequences. <i>Medicine and Science in Sports and Exercise</i> , 2004, 36, 830-831.	0.4	9
47	Femoral Neck Stress in Older Adults During Stair Ascent and Descent. <i>Journal of Applied Biomechanics</i> , 2018, 34, 191-198.	0.8	9
48	GROUND/FOOT IMPACTS. <i>Medicine and Science in Sports and Exercise</i> , 2002, 34, S88.	0.4	8
49	Internal Tibial Forces and Moments During Graded Running. <i>Journal of Biomechanical Engineering</i> , 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. <i>American Journal of Veterinary Research</i> , 2011, 72, 628-633.	0.6	7
51	Tibial stress during running following a repeated calf raise protocol. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2020, 30, 2382-2389.	2.9	7
52	Biomechanics: 40 Years On. <i>Kinesiology Review</i> , 2021, 10, 228-237.	0.6	6
53	Medial Longitudinal Arch Mechanics Before and After a 45-Minute Run. <i>Journal of the American Podiatric Medical Association</i> , 2014, 104, 349-356.	0.3	5
54	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.	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. <i>Medicine and Science in Sports and Exercise</i> , 2006, 38, S267.	0.4	0
74	Impact Attenuation in Older Adult Runners. <i>Medicine and Science in Sports and Exercise</i> , 2006, 38, S65.	0.4	0
75	Age and Condition Related Differences During Carrying Tasks in Farm Youth. <i>Medicine and Science in Sports and Exercise</i> , 2006, 38, S238.	0.4	0
76	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.	0.2	0
77	Finite Element Analysis of Femoral Strains in Older Adults During Stair Ascent and Descent. <i>Journal of Science in Sport and Exercise</i> , 0, , 1.	1.0	0