

Dominic Thewlis

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

2,153
citations

218592

26
h-index

276775

41
g-index

103
all docs

103
docs citations

103
times ranked

2393
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing Proprioception. <i>Neurorehabilitation and Neural Repair</i> , 2015, 29, 933-949.	1.4	208
2	The Effect of Footwear on Running Performance and Running Economy in Distance Runners. <i>Sports Medicine</i> , 2015, 45, 411-422.	3.1	104
3	Biomechanical changes and recovery of gait function after total hip arthroplasty for osteoarthritis: a systematic review and meta-analysis. <i>Osteoarthritis and Cartilage</i> , 2018, 26, 847-863.	0.6	83
4	Foot orthoses for adults with flexible pes planus: a systematic review. <i>Journal of Foot and Ankle Research</i> , 2014, 7, 23.	0.7	80
5	A systematic literature review of tibial plateau fractures: What classifications are used and how reliable and useful are they?. <i>Injury</i> , 2018, 49, 473-490.	0.7	75
6	Validation of an OpenSim full-body model with detailed lumbar spine for estimating lower lumbar spine loads during symmetric and asymmetric lifting tasks. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019, 22, 451-464.	0.9	73
7	Next-Generation Low-Cost Motion Capture Systems Can Provide Comparable Spatial Accuracy to High-End Systems. <i>Journal of Applied Biomechanics</i> , 2013, 29, 112-117.	0.3	72
8	Differences in foot kinematics between young and older adults during walking. <i>Gait and Posture</i> , 2014, 39, 689-694.	0.6	70
9	Lateral Wedge Insoles for Reducing Biomechanical Risk Factors for Medial Knee Osteoarthritis Progression: A Systematic Review and Meta-Analysis. <i>Arthritis Care and Research</i> , 2016, 68, 936-951.	1.5	49
10	Statistical shape modelling versus linear scaling: Effects on predictions of hip joint centre location and muscle moment arms in people with hip osteoarthritis. <i>Journal of Biomechanics</i> , 2019, 85, 164-172.	0.9	47
11	The biomechanics of step descent under different treatment modalities used in patellofemoral pain. <i>Gait and Posture</i> , 2008, 27, 258-263.	0.6	44
12	Recommendations for the reporting of foot and ankle models. <i>Journal of Biomechanics</i> , 2012, 45, 2185-2194.	0.9	42
13	A method to investigate the effect of shoe-hole size on surface marker movement when describing in-shoe joint kinematics using a multi-segment foot model. <i>Gait and Posture</i> , 2015, 41, 295-299.	0.6	37
14	A clinical study of the biomechanics of step descent using different treatment modalities for patellofemoral pain. <i>Gait and Posture</i> , 2011, 34, 92-96.	0.6	36
15	Consensus-based recommendations of Australian podiatrists for the prescription of foot orthoses for symptomatic flexible pes planus in adults. <i>Journal of Foot and Ankle Research</i> , 2014, 7, 49.	0.7	36
16	Development and Validation of a High Anatomical Fidelity FE Model for the Buttock and Thigh of a Seated Individual. <i>Annals of Biomedical Engineering</i> , 2016, 44, 2805-2816.	1.3	36
17	Body Mass and Weekly Training Distance Influence the Pain and Injuries Experienced by Runners Using Minimalist Shoes: A Randomized Controlled Trial. <i>American Journal of Sports Medicine</i> , 2017, 45, 1162-1170.	1.9	36
18	An Accurate and Reliable Method of Thermal Data Analysis in Thermal Imaging of the Anterior Knee for Use in Cryotherapy Research. <i>Archives of Physical Medicine and Rehabilitation</i> , 2006, 87, 1630-1635.	0.5	35

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19	Adults with a history of illicit amphetamine use exhibit abnormal substantia nigra morphology and parkinsonism. <i>Parkinsonism and Related Disorders</i> , 2016, 25, 27-32.	1.1	35
20	Fall Recovery Subactivity Recognition With RGB-D Cameras. <i>IEEE Transactions on Industrial Informatics</i> , 2016, 12, 2312-2320.	7.2	34
21	Effects of a minimalist shoe on running economy and 5-km running performance. <i>Journal of Sports Sciences</i> , 2016, 34, 1740-1745.	1.0	34
22	The reliability, accuracy and minimal detectable difference of a multi-segment kinematic model of the foot-shoe complex. <i>Gait and Posture</i> , 2013, 37, 552-557.	0.6	33
23	A Biomechanical Investigation of A Single-Limb Squat: Implications for Lower Extremity Rehabilitation Exercise. <i>Journal of Athletic Training</i> , 2008, 43, 477-482.	0.9	30
24	The Effect of Lunate Morphology on the 3-Dimensional Kinematics of the Carpus. <i>Journal of Hand Surgery</i> , 2015, 40, 81-89.e1.	0.7	30
25	Systematic mapping of the subchondral bone 3D microarchitecture in the human tibial plateau: Variations with joint alignment. <i>Journal of Orthopaedic Research</i> , 2017, 35, 1927-1941.	1.2	30
26	Accuracy of \dot{W} Recovery Kinetics in High Performance Cyclists Modeling Intermittent Work Capacity. <i>International Journal of Sports Physiology and Performance</i> , 2018, 13, 724-728.	1.1	28
27	Custom foot orthoses improve first-step pain in individuals with unilateral plantar fasciopathy: a pragmatic randomised controlled trial. <i>BMC Musculoskeletal Disorders</i> , 2018, 19, 222.	0.8	28
28	Coordination of digit force variability during dominant and non-dominant sustained precision pinch. <i>Experimental Brain Research</i> , 2015, 233, 2053-2060.	0.7	26
29	Predicting Critical Power in Elite Cyclists: Questioning the Validity of the 3-Minute All-Out Test. <i>International Journal of Sports Physiology and Performance</i> , 2017, 12, 783-787.	1.1	26
30	Characteristics of postoperative weight bearing and management protocols for tibial plateau fractures: Findings from a scoping review. <i>Injury</i> , 2017, 48, 2634-2642.	0.7	25
31	Relationships between in vivo dynamic knee joint loading, static alignment and tibial subchondral bone microarchitecture in end-stage knee osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2018, 26, 547-556.	0.6	25
32	Peak loading during walking is not associated with fracture migration following tibial plateau fracture: A preliminary case series. <i>Journal of Orthopaedic Research</i> , 2015, 33, 1398-1406.	1.2	24
33	Postoperative weight bearing and patient reported outcomes at one year following tibial plateau fractures. <i>Injury</i> , 2017, 48, 1650-1656.	0.7	24
34	Deformation of the gluteal soft tissues during sitting. <i>Clinical Biomechanics</i> , 2015, 30, 662-668.	0.5	23
35	Repeatability of stance phase kinematics from a multi-segment foot model in people aged 50 years and older. <i>Gait and Posture</i> , 2013, 38, 349-351.	0.6	21
36	The effect of footwear and footfall pattern on running stride interval long-range correlations and distributional variability. <i>Gait and Posture</i> , 2016, 44, 137-142.	0.6	21

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37	EMG-Informed Neuromusculoskeletal Models Accurately Predict Knee Loading Measured Using Instrumented Implants. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 2268-2275.	2.5	21
38	Simulating Time-Series Data for Improved Deep Neural Network Performance. <i>IEEE Access</i> , 2019, 7, 131248-131255.	2.6	20
39	Discrepancies in Knee Joint Moments Using Common Anatomical Frames Defined by Different Palpable Landmarks. <i>Journal of Applied Biomechanics</i> , 2008, 24, 185-190.	0.3	19
40	Altered dynamic foot kinematics in people with medial knee osteoarthritis during walking: A cross-sectional study. <i>Knee</i> , 2014, 21, 1101-1106.	0.8	19
41	Preoperative asymmetry in load distribution during quiet stance persist following total knee arthroplasty. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2014, 22, 609-614.	2.3	19
42	Longer-term effects of minimalist shoes on running performance, strength and bone density: A 20-week follow-up study. <i>European Journal of Sport Science</i> , 2019, 19, 402-412.	1.4	19
43	Redistribution of Mechanical Work at the Knee and Ankle Joints During Fast Running in Minimalist Shoes. <i>Journal of Athletic Training</i> , 2016, 51, 806-812.	0.9	17
44	Six-week transition to minimalist shoes improves running economy and time-trial performance. <i>Journal of Science and Medicine in Sport</i> , 2017, 20, 1117-1122.	0.6	17
45	Tracking Performance Changes With Running-Stride Variability When Athletes Are Functionally Overreached. <i>International Journal of Sports Physiology and Performance</i> , 2017, 12, 357-363.	1.1	17
46	Objectively measured 24-hour activity profiles before and after total hip arthroplasty. <i>Bone and Joint Journal</i> , 2019, 101-B, 415-425.	1.9	17
47	Detrended fluctuation analysis detects altered coordination of running gait in athletes following a heavy period of training. <i>Journal of Science and Medicine in Sport</i> , 2019, 22, 294-299.	0.6	15
48	Adults with flexible pes planus and the approach to the prescription of customised foot orthoses in clinical practice: A clinical records audit. <i>Foot</i> , 2015, 25, 101-109.	0.4	14
49	Impaction bone grafting has potential as an adjunct to the surgical stabilisation of osteoporotic tibial plateau fractures: Early results of a case series. <i>Injury</i> , 2015, 46, 1089-1096.	0.7	14
50	Joint loading and proximal tibia subchondral trabecular bone microarchitecture differ with walking gait patterns in end-stage knee osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2017, 25, 1623-1632.	0.6	14
51	A radiological method to determine the accuracy of motion capture marker placement on palpable anatomical landmarks through a shoe. <i>Footwear Science</i> , 2011, 3, 169-177.	0.8	13
52	Does the Method of Component Fixation Influence Clinical Outcomes After Total Knee Replacement? A Systematic Literature Review. <i>Journal of Arthroplasty</i> , 2013, 28, 740-746.	1.5	13
53	The long-term effect of minimalist shoes on running performance and injury: design of a randomised controlled trial. <i>BMJ Open</i> , 2015, 5, e008307.	0.8	13
54	Improvements in knee biomechanics during walking are associated with increased physical activity after total knee arthroplasty. <i>Journal of Orthopaedic Research</i> , 2015, 33, 1818-1825.	1.2	13

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55	History of cannabis use is associated with altered gait. <i>Drug and Alcohol Dependence</i> , 2017, 178, 215-222.	1.6	11
56	A Comprehensive Literature Review of the Pelvis and the Lower Extremity FE Human Models under Quasi-static Conditions. <i>Work</i> , 2012, 41, 4218-4229.	0.6	10
57	Comparison of anatomical, functional and regression methods for estimating the rotation axes of the forearm. <i>Journal of Biomechanics</i> , 2014, 47, 3488-3493.	0.9	10
58	A method for concise reporting of joint reaction forces orientation during gait. <i>Journal of Biomechanics</i> , 2016, 49, 3538-3542.	0.9	10
59	Tibial cartilage, subchondral bone plate and trabecular bone microarchitecture in varus and valgus osteoarthritis versus controls. <i>Journal of Orthopaedic Research</i> , 2021, 39, 1988-1999.	1.2	10
60	A novel method to replicate the kinematics of the carpus using a six degree-of-freedom robot. <i>Journal of Biomechanics</i> , 2014, 47, 1091-1098.	0.9	9
61	A New Approach to Surgical Management of Tibial Plateau Fractures. <i>Journal of Clinical Medicine</i> , 2020, 9, 626.	1.0	8
62	The Effect of Hip Position on the Length of Trochanteric Muscles: Potential Implications for Early Postoperative Management of Hip Arthroplasty. <i>Journal of Arthroplasty</i> , 2012, 27, 953-960.e2.	1.5	7
63	Quantifying the in vivo quasi-static response to loading of sub-dermal tissues in the human buttock using magnetic resonance imaging. <i>Clinical Biomechanics</i> , 2017, 50, 70-77.	0.5	7
64	Movement coordination patterns between the foot joints during walking. <i>Journal of Foot and Ankle Research</i> , 2017, 10, 47.	0.7	7
65	Relationships between adiposity and postural control in girls during balance tasks of varying difficulty. <i>Obesity Research and Clinical Practice</i> , 2019, 13, 358-364.	0.8	7
66	A braced arm-to-thigh (BATT) lifting technique reduces lumbar spine loads in healthy and low back pain participants. <i>Journal of Biomechanics</i> , 2020, 100, 109584.	0.9	7
67	Proximal Femoral Nail Unlocked versus Locked (ProFNUL): a protocol for a multicentre, parallel-armed randomised controlled trial for the effect of femoral nail mode of lag screw locking and screw configuration in the treatment of intertrochanteric femur fractures. <i>BMJ Open</i> , 2020, 10, e032640.	0.8	7
68	Postoperative lower limb joint kinematics following tibial plateau fracture: A 2-year longitudinal study. <i>Gait and Posture</i> , 2021, 83, 20-25.	0.6	7
69	Hand Function is Altered in Individuals with a History of Illicit Stimulant Use. <i>PLoS ONE</i> , 2014, 9, e115771.	1.1	7
70	Lower functioning patients demonstrate atypical hip joint loading before and following total hip arthroplasty for osteoarthritis. <i>Journal of Orthopaedic Research</i> , 2020, 38, 1550-1558.	1.2	6
71	The reliability of dual-energy X-ray absorptiometry measurements of bone mineral density in the metatarsals. <i>Skeletal Radiology</i> , 2016, 45, 135-140.	1.2	5
72	The reliability of the Adelaide in-shoe foot model. <i>Gait and Posture</i> , 2017, 56, 1-7.	0.6	5

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73	The Reproducibility of Bio-Acoustic Features is Associated With Sample Duration, Speech Task, and Gender. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2022, 30, 167-175.	2.7	5
74	Time dependent loss of trabecular bone in human tibial plateau fractures. <i>Journal of Orthopaedic Research</i> , 2018, 36, 2865-2875.	1.2	4
75	Prevalence of self-reported movement dysfunction among young adults with a history of ecstasy and methamphetamine use. <i>Drug and Alcohol Dependence</i> , 2019, 205, 107595.	1.6	4
76	Use of illicit amphetamines is associated with long-lasting changes in hand circuitry and control. <i>Clinical Neurophysiology</i> , 2019, 130, 655-665.	0.7	4
77	Validating an Adjustment to the Intermittent Critical Power Model for Elite Cyclistsâ€™ Modeling Wâ€™ Balance During World Cup Team Pursuit Performances. <i>International Journal of Sports Physiology and Performance</i> , 2022, 17, 170-175.	1.1	4
78	3D modelling of tibial plateau fractures: Variability in fracture location and characteristics across Schatzker fracture types. <i>Injury</i> , 2021, 52, 2415-2424.	0.7	4
79	Collecting a comprehensive evidence base to monitor fracture rehabilitation: A case study. <i>World Journal of Orthopedics</i> , 2013, 4, 259.	0.8	4
80	Longitudinal changes in lower limb joint loading up to two years following tibial plateau fracture. <i>Gait and Posture</i> , 2020, 78, 72-79.	0.6	3
81	Lumbar spine loads are reduced for activities of daily living when using a braced arm-to-thigh technique. <i>European Spine Journal</i> , 2021, 30, 1035-1042.	1.0	3
82	Adults with a history of recreational cannabis use have altered speech production. <i>Drug and Alcohol Dependence</i> , 2021, 227, 108963.	1.6	3
83	Biomechanical effects of different treatment modalities used in knee pain during cycling. <i>Physiotherapy Practice and Research</i> , 2012, 33, 16-21.	0.1	2
84	The Simulation of the Whole-Body Vibration Experienced During Military Land Transit. <i>Human Factors and Mechanical Engineering for Defense and Safety</i> , 2018, 2, 1.	2.4	2
85	Investigating in vivo knee volumetric bone mineral density and walking gait mechanics in healthy people. <i>Bone</i> , 2021, 143, 115662.	1.4	2
86	A semiautomated method to quantitatively assess osteolytic lesion volume and bone mineral density within acetabular regions of interest from CT. <i>Journal of Orthopaedic Research</i> , 2022, 40, 396-408.	1.2	2
87	Changes in 24-Hour Physical Activity Patterns and Walking Gait Biomechanics After Primary Total Hip Arthroplasty. <i>Journal of Bone and Joint Surgery - Series A</i> , 2021, 103, 1166-1174.	1.4	2
88	Relationships between tibial articular cartilage, <i>in vivo</i> external joint moments and static alignment in end-stage knee osteoarthritis: A micro-CT study. <i>Journal of Orthopaedic Research</i> , 2022, 40, 1125-1134.	1.2	2
89	A clinical study of the biomechanics of step descent using different treatment modalities for patellofemoral pain. <i>Gait and Posture</i> , 2009, 30, S28-S29.	0.6	1
90	Does size matter? The influence of shoeâ€™hole sizes on footâ€™mounted marker motion during walking gait. <i>Journal of Foot and Ankle Research</i> , 2014, 7, .	0.7	1

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91	Practices and risks associated with operation of tie-down lashings in the vehicle transport industry. <i>Ergonomics</i> , 2016, 59, 1661-1672.	1.1	1
92	Is there a relationship between postural alignment and mobility for adults after acquired brain injury? A systematic review. <i>Brain Injury</i> , 2017, 31, 571-580.	0.6	1
93	Complications of trans arterial embolization during the resuscitation of pelvic fractures. <i>Injury</i> , 2017, 48, 2724-2729.	0.7	1
94	The shared motorised military land transit experiences of Australian Defence Force infantry personnel. <i>Journal of Science and Medicine in Sport</i> , 2017, 20, S111-S112.	0.6	1
95	The impact of the mechanical whole-body vibration experienced during military land transit on the physical attributes underpinning dismounted combatant physical performance: A randomised controlled trial. <i>Journal of Science and Medicine in Sport</i> , 2021, 24, 380-385.	0.6	1
96	An instrumented walker in three-dimensional gait analysis: Improving musculoskeletal estimates in the lower limb mobility impaired. <i>Gait and Posture</i> , 2022, 93, 142-145.	0.6	1
97	Improvement in postural alignment is associated with recovery of mobility after complex acquired brain injury: An observational study. <i>Physiotherapy Theory and Practice</i> , 2022, , 1-13.	0.6	1
98	Effects of Footwear on Lead Limb Knee and Ankle Joint Kinematics in a Fast Bowler With a History of Posterior Ankle Joint Impingement—A Case Report. <i>Clinical Journal of Sport Medicine</i> , 2013, 23, 491-493.	0.9	0
99	A preliminary investigation of the immediate effects of footwear and custom foot orthotics on the foot in patients with plantar fasciopathy. <i>Footwear Science</i> , 2015, 7, S104-S106.	0.8	0
100	Radiostereometric Analysis Allows Assessment of the Stability and Inducible Displacement of Pelvic Ring Disruptions during Healing: A Case Series. <i>Journal of Clinical Medicine</i> , 2020, 9, 3411.	1.0	0
101	Development and evaluation of a method to define a tibial coordinate system through the fitting of geometric primitives. <i>International Biomechanics</i> , 2021, 8, 12-18.	0.9	0
102	Assigning trabecular bone material properties in finite element models simulating the pelvis before and after the development of peri-prosthetic osteolytic lesions. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 133, 105311.	1.5	0