

# David G Lloyd

## List of Publications by Year in descending order

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Version: 2024-02-01

270  
papers

15,414  
citations

17440

63  
h-index

23533

111  
g-index

281  
all docs

281  
docs citations

281  
times ranked

9081  
citing authors

#	ARTICLE	IF	CITATIONS
1	An EMG-driven musculoskeletal model to estimate muscle forces and knee joint moments in vivo. <i>Journal of Biomechanics</i> , 2003, 36, 765-776.	2.1	951
2	Neuromusculoskeletal Modeling: Estimation of Muscle Forces and Joint Moments and Movements from Measurements of Neural Command. <i>Journal of Applied Biomechanics</i> , 2004, 20, 367-395.	0.8	704
3	Grand challenge competition to predict in vivo knee loads. <i>Journal of Orthopaedic Research</i> , 2012, 30, 503-513.	2.3	449
4	Repeatability of gait data using a functional hip joint centre and a mean helical knee axis. <i>Journal of Biomechanics</i> , 2003, 36, 1159-1168.	2.1	434
5	External loading of the knee joint during running and cutting maneuvers. <i>Medicine and Science in Sports and Exercise</i> , 2001, 33, 1168-1175.	0.4	354
6	Anticipatory effects on knee joint loading during running and cutting maneuvers. <i>Medicine and Science in Sports and Exercise</i> , 2001, 33, 1176-1181.	0.4	336
7	Muscle and external load contribution to knee joint contact loads during normal gait. <i>Journal of Biomechanics</i> , 2009, 42, 2294-2300.	2.1	298
8	Muscle Activation Strategies at the Knee during Running and Cutting Maneuvers. <i>Medicine and Science in Sports and Exercise</i> , 2003, 35, 119-127.	0.4	289
9	Strategies of muscular support of varus and valgus isometric loads at the human knee. <i>Journal of Biomechanics</i> , 2001, 34, 1257-1267.	2.1	286
10	EMG-Driven Forward-Dynamic Estimation of Muscle Force and Joint Moment about Multiple Degrees of Freedom in the Human Lower Extremity. <i>PLoS ONE</i> , 2012, 7, e52618.	2.5	239
11	Sensori-motor Function, Gait Patterns and Falls in Community-dwelling Women. <i>Age and Ageing</i> , 1996, 25, 292-299.	1.6	230
12	CEINMS: A toolbox to investigate the influence of different neural control solutions on the prediction of muscle excitation and joint moments during dynamic motor tasks. <i>Journal of Biomechanics</i> , 2015, 48, 3929-3936.	2.1	223
13	Characteristics of anterior cruciate ligament injuries in Australian football. <i>Journal of Science and Medicine in Sport</i> , 2007, 10, 96-104.	1.3	222
14	Subject-specific knee joint geometry improves predictions of medial tibiofemoral contact forces. <i>Journal of Biomechanics</i> , 2013, 46, 2778-2786.	2.1	216
15	The Effect of Technique Change on Knee Loads during Sidestep Cutting. <i>Medicine and Science in Sports and Exercise</i> , 2007, 39, 1765-1773.	0.4	206
16	Knee joint kinematics, kinetics and muscle co-contraction in knee osteoarthritis patient gait. <i>Clinical Biomechanics</i> , 2009, 24, 833-841.	1.2	199
17	Changing Sidestep Cutting Technique Reduces Knee Valgus Loading. <i>American Journal of Sports Medicine</i> , 2009, 37, 2194-2200.	4.2	196
18	Gait selection in the ostrich: mechanical and metabolic characteristics of walking and running with and without an aerial phase. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, 1091-1099.	2.6	162

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19	Hybrid neuromusculoskeletal modeling to best track joint moments using a balance between muscle excitations derived from electromyograms and optimization. <i>Journal of Biomechanics</i> , 2014, 47, 3613-3621.	2.1	158
20	The influence of surface slope on human gait characteristics: a study of urban pedestrians walking on an inclined surface. <i>Ergonomics</i> , 1996, 39, 677-692.	2.1	149
21	A Model of Load Sharing Between Muscles and Soft Tissues at the Human Knee During Static Tasks. <i>Journal of Biomechanical Engineering</i> , 1996, 118, 367-376.	1.3	135
22	Estimation of Muscle Forces and Joint Moments Using a Forward-Inverse Dynamics Model. <i>Medicine and Science in Sports and Exercise</i> , 2005, 37, 1911-1916.	0.4	135
23	A real-time EMG-driven virtual arm. <i>Computers in Biology and Medicine</i> , 2002, 32, 25-36.	7.0	130
24	Estimation of musculotendon kinematics in large musculoskeletal models using multidimensional B-splines. <i>Journal of Biomechanics</i> , 2012, 45, 595-601.	2.1	130
25	Pre-surgery knee joint loading patterns during walking predict the presence and severity of anterior knee pain after total knee arthroplasty. <i>Journal of Orthopaedic Research</i> , 2004, 22, 260-266.	2.3	128
26	The Effect of Exercise on Gait Patterns in Older Women: A Randomized Controlled Trial. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 1996, 51A, M64-M70.	3.6	125
27	Estimation of musculotendon parameters for scaled and subject specific musculoskeletal models using an optimization technique. <i>Journal of Biomechanics</i> , 2016, 49, 141-148.	2.1	124
28	Neural Data-Driven Musculoskeletal Modeling for Personalized Neurorehabilitation Technologies. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 879-893.	4.2	121
29	Optimizing whole-body kinematics to minimize valgus knee loading during sidestepping: Implications for ACL injury risk. <i>Journal of Biomechanics</i> , 2012, 45, 1491-1497.	2.1	116
30	Reliability of four models for clinical gait analysis. <i>Gait and Posture</i> , 2017, 54, 325-331.	1.4	115
31	Joint kinematic calculation based on clinical direct kinematic versus inverse kinematic gait models. <i>Journal of Biomechanics</i> , 2016, 49, 1658-1669.	2.1	114
32	Morphologic Characteristics and Strength of the Hamstring Muscles Remain Altered at 2 Years After Use of a Hamstring Tendon Graft in Anterior Cruciate Ligament Reconstruction. <i>American Journal of Sports Medicine</i> , 2016, 44, 2589-2598.	4.2	114
33	Rationale for Training Programs to Reduce Anterior Cruciate Ligament Injuries in Australian Football. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2001, 31, 645-654.	3.5	113
34	Traditional vs accelerated approaches to post-operative rehabilitation following matrix-induced autologous chondrocyte implantation (MACI): comparison of clinical, biomechanical and radiographic outcomes. <i>Osteoarthritis and Cartilage</i> , 2008, 16, 1131-1140.	1.3	112
35	Tibiofemoral contact forces during walking, running and sidestepping. <i>Gait and Posture</i> , 2016, 49, 78-85.	1.4	111
36	Safety and Effectiveness of a Nurse-Led Outreach Program for Assessment and Treatment of Chronic Hepatitis C in the Custodial Setting. <i>Clinical Infectious Diseases</i> , 2013, 56, 1078-1084.	5.8	109

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37	Running in ostriches ( <i>Struthio camelus</i> ): three-dimensional joint axes alignment and joint kinematics. <i>Journal of Experimental Biology</i> , 2007, 210, 2548-2562.	1.7	106
38	A musculoskeletal model of human locomotion driven by a low dimensional set of impulsive excitation primitives. <i>Frontiers in Computational Neuroscience</i> , 2013, 7, 79.	2.1	106
39	Estimation of the hip joint centre in human motion analysis: A systematic review. <i>Clinical Biomechanics</i> , 2015, 30, 319-329.	1.2	102
40	Kinematic and electromyography analysis of submaximal differences running on a firm surface compared with soft, dry sand.. <i>European Journal of Applied Physiology</i> , 2005, 94, 242-253.	2.5	99
41	Programmable mechanical stimulation influences tendon homeostasis in a bioreactor system. <i>Biotechnology and Bioengineering</i> , 2013, 110, 1495-1507.	3.3	99
42	An upper limb kinematic model for the examination of cricket bowling: A case study of Muthiah Muralitharan. <i>Journal of Sports Sciences</i> , 2000, 18, 975-982.	2.0	98
43	Neuromuscular Biomechanical Modeling to Understand Knee Ligament Loading. <i>Medicine and Science in Sports and Exercise</i> , 2005, 37, 1939-1947.	0.4	88
44	Biofeedback for Gait Retraining Based on Real-Time Estimation of Tibiofemoral Joint Contact Forces. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017, 25, 1612-1621.	4.9	88
45	Establishing outcome measures in early knee osteoarthritis. <i>Nature Reviews Rheumatology</i> , 2019, 15, 438-448.	8.0	88
46	Reappraisal of the comparative cost of human locomotion using gait-specific allometric analyses. <i>Journal of Experimental Biology</i> , 2007, 210, 3513-3524.	1.7	87
47	Evaluation of different analytical methods for subject-specific scaling of musculotendon parameters. <i>Journal of Biomechanics</i> , 2008, 41, 1682-1688.	2.1	86
48	Net forces during tethered simulation of underwater streamlined gliding and kicking techniques of the freestyle turn. <i>Journal of Sports Sciences</i> , 2000, 18, 801-807.	2.0	84
49	Lack of correlation between different measurements of proprioception in the knee. <i>Journal of Bone and Joint Surgery: British Volume</i> , 2002, 84, 614-618.	3.4	84
50	Adaptations for economical bipedal running: the effect of limb structure on three-dimensional joint mechanics. <i>Journal of the Royal Society Interface</i> , 2011, 8, 740-755.	3.4	82
51	Knee joint biomechanics following arthroscopic partial meniscectomy. <i>Journal of Orthopaedic Research</i> , 2008, 26, 1075-1080.	2.3	81
52	Muscle activity is different for humans performing static tasks which require force control and position control. <i>Neuroscience Letters</i> , 1995, 194, 61-64.	2.1	79
53	Training Affects Knee Kinematics and Kinetics in Cutting Maneuvers in Sport. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 1535-1544.	0.4	79
54	Bioreactor Design for Tendon/Ligament Engineering. <i>Tissue Engineering - Part B: Reviews</i> , 2013, 19, 133-146.	4.8	79

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55	Increase in vastus medialis cross-sectional area is associated with reduced pain, cartilage loss, and joint replacement risk in knee osteoarthritis. <i>Arthritis and Rheumatism</i> , 2012, 64, 3917-3925.	6.7	75
56	Running Biomechanics and Lower Limb Strength Associated with Prior Hamstring Injury. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 1942-1951.	0.4	74
57	A kinematic and kinetic analysis of walking after total knee arthroplasty with and without patellar resurfacing. <i>Clinical Biomechanics</i> , 2006, 21, 379-386.	1.2	72
58	Muscle Synergies May Improve Optimization Prediction of Knee Contact Forces During Walking. <i>Journal of Biomechanical Engineering</i> , 2014, 136, 021031.	1.3	71
59	Osteoarthritis year in review 2016: mechanics. <i>Osteoarthritis and Cartilage</i> , 2017, 25, 190-198.	1.3	71
60	We have the programme, what next? Planning the implementation of an injury prevention programme. <i>Injury Prevention</i> , 2017, 23, 273-280.	2.4	68
61	Changes in knee joint biomechanics following balance and technique training and a season of Australian football. <i>British Journal of Sports Medicine</i> , 2012, 46, 917-922.	6.7	67
62	An Anterior Cruciate Ligament Injury Prevention Framework: Incorporating the Recent Evidence. <i>Research in Sports Medicine</i> , 2012, 20, 239-262.	1.3	67
63	Non-negative matrix factorisation is the most appropriate method for extraction of muscle synergies in walking and running. <i>Scientific Reports</i> , 2020, 10, 8266.	3.3	67
64	Preventing lower limb injuries: Is the latest evidence being translated into the football field?. <i>Journal of Science and Medicine in Sport</i> , 2009, 12, 452-456.	1.3	65
65	Repeatability of 3D gait kinematics obtained from an electromagnetic tracking system during treadmill locomotion. <i>Journal of Biomechanics</i> , 2007, 40, 1504-1511.	2.1	64
66	Multidimensional Ground Reaction Forces and Moments From Wearable Sensor Accelerations via Deep Learning. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 289-297.	4.2	63
67	Are external knee load and EMG measures accurate indicators of internal knee contact forces during gait?. <i>Journal of Orthopaedic Research</i> , 2013, 31, 921-929.	2.3	62
68	Accuracy and Reliability of Marker-Based Approaches to Scale the Pelvis, Thigh, and Shank Segments in Musculoskeletal Models. <i>Journal of Applied Biomechanics</i> , 2017, 33, 354-360.	0.8	62
69	Whole body kinematics and knee moments that occur during an overhead catch and landing task in sport. <i>Clinical Biomechanics</i> , 2012, 27, 466-474.	1.2	61
70	Tibiofemoral Contact Forces in the Anterior Cruciate Ligament-Reconstructed Knee. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 2195-2206.	0.4	61
71	Repeatability of upper limb kinematics for children with and without cerebral palsy. <i>Gait and Posture</i> , 2010, 32, 10-17.	1.4	60
72	Effects of Different Visual Stimuli on Postures and Knee Moments during Sidestepping. <i>Medicine and Science in Sports and Exercise</i> , 2013, 45, 1740-1748.	0.4	60

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73	Real-time inverse kinematics and inverse dynamics for lower limb applications using OpenSim. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 436-445.	1.6	60
74	A hypothesis for the function of braking forces during running turns. <i>Journal of Biomechanics</i> , 2006, 39, 1611-1620.	2.1	59
75	Predicting athlete ground reaction forces and moments from motion capture. <i>Medical and Biological Engineering and Computing</i> , 2018, 56, 1781-1792.	2.8	59
76	Selective muscle activation following rapid varus/valgus perturbations at the knee. <i>Medicine and Science in Sports and Exercise</i> , 1996, 28, 870-876.	0.4	57
77	Knee Extension and Flexion Weakness in People With Knee Osteoarthritis: Is Antagonist Cocontraction a Factor?. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2009, 39, 807-815.	3.5	55
78	Modeling the Human Knee for Assistive Technologies. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 2642-2649.	4.2	55
79	Tibio-femoral cartilage defects 3-5 years following arthroscopic partial medial meniscectomy. <i>Osteoarthritis and Cartilage</i> , 2008, 16, 1526-1531.	1.3	54
80	Investigating Kinetics in the Freestyle Flip Turn Push-Off. <i>Journal of Applied Biomechanics</i> , 1999, 15, 242-252.	0.8	53
81	Subject-specific calibration of neuromuscular parameters enables neuromusculoskeletal models to estimate physiologically plausible hip joint contact forces in healthy adults. <i>Journal of Biomechanics</i> , 2018, 80, 111-120.	2.1	53
82	Predicting Athlete Ground Reaction Forces and Moments From Spatio-Temporal Driven CNN Models. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 689-694.	4.2	53
83	Machine learning methods to support personalized neuromusculoskeletal modelling. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020, 19, 1169-1185.	2.8	53
84	Moving towards transdisciplinarity: an ecological sustainable focus for science and mathematics pre-service education in the primary/middle years. <i>Asia-Pacific Journal of Teacher Education</i> , 2008, 36, 19-33.	1.9	51
85	Subject-specific finite element analysis to characterize the influence of geometry and material properties in Achilles tendon rupture. <i>Journal of Biomechanics</i> , 2014, 47, 3598-3604.	2.1	51
86	When "just doing it" is not enough: Assessing the fidelity of player performance of an injury prevention exercise program. <i>Journal of Science and Medicine in Sport</i> , 2015, 18, 272-277.	1.3	51
87	Accuracy of Partial Weight Bearing After Autologous Chondrocyte Implantation. <i>Archives of Physical Medicine and Rehabilitation</i> , 2008, 89, 1528-1534.	0.9	50
88	Knee Strength and Knee Adduction Moments following Arthroscopic Partial Meniscectomy. <i>Medicine and Science in Sports and Exercise</i> , 2008, 40, 991-997.	0.4	50
89	Neuromuscular adaptations to eccentric strength training in children and adolescents with cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2010, 52, 358-363.	2.1	50
90	A calibrated EMG-informed neuromusculoskeletal model can appropriately account for muscle co-contraction in the estimation of hip joint contact forces in people with hip osteoarthritis. <i>Journal of Biomechanics</i> , 2019, 83, 134-142.	2.1	50

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91	MRI development and validation of two new predictive methods of glenohumeral joint centre location identification and comparison with established techniques. <i>Journal of Biomechanics</i> , 2009, 42, 1527-1532.	2.1	49
92	Muscle activation at the human knee during isometric flexion-extension and varus-valgus loads. <i>Journal of Orthopaedic Research</i> , 1997, 15, 11-17.	2.3	47
93	Predicting Knee Osteoarthritis. <i>Annals of Biomedical Engineering</i> , 2016, 44, 222-233.	2.5	47
94	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.	2.1	47
95	Individual muscle contributions to the swing phase of gait: An EMG-based forward dynamics modelling approach. <i>Simulation Modelling Practice and Theory</i> , 2007, 15, 1146-1155.	3.8	46
96	Why go bipedal? Locomotion and morphology in Australian agamid lizards. <i>Journal of Experimental Biology</i> , 2008, 211, 2058-2065.	1.7	46
97	The off-break and 'ceodoosra' Kinematic variations of elite and sub-elite bowlers in creating ball spin in cricket bowling. <i>Sports Biomechanics</i> , 2009, 8, 187-198.	1.6	46
98	Bridging the Gap Between Content and Context. <i>Clinical Journal of Sport Medicine</i> , 2015, 25, 221-229.	1.8	45
99	In vitro loading models for tendon mechanobiology. <i>Journal of Orthopaedic Research</i> , 2018, 36, 566-575.	2.3	45
100	Correlation between EMG-based co-activation measures and medial and lateral compartment loads of the knee during gait. <i>Clinical Biomechanics</i> , 2013, 28, 1014-1019.	1.2	44
101	Cyclic mechanical stimulation rescues achilles tendon from degeneration in a bioreactor system. <i>Journal of Orthopaedic Research</i> , 2015, 33, 1888-1896.	2.3	44
102	Bioinspired Technologies to Connect Musculoskeletal Mechanobiology to the Person for Training and Rehabilitation. <i>Frontiers in Computational Neuroscience</i> , 2017, 11, 96.	2.1	44
103	The MAP Client: User-Friendly Musculoskeletal Modelling Workflows. <i>Lecture Notes in Computer Science</i> , 2014, , 182-192.	1.3	44
104	Preventing Australian football injuries with a targeted neuromuscular control exercise programme: comparative injury rates from a training intervention delivered in a clustered randomised controlled trial. <i>Injury Prevention</i> , 2016, 22, 123-128.	2.4	43
105	Static optimization underestimates antagonist muscle activity at the glenohumeral joint: A musculoskeletal modeling study. <i>Journal of Biomechanics</i> , 2019, 97, 109348.	2.1	43
106	Direction Control in Standing Horizontal and Vertical Jumps. <i>International Journal of Sport and Health Science</i> , 2005, 3, 272-279.	0.2	42
107	Patellofemoral and tibiofemoral articular cartilage and subchondral bone health following arthroscopic partial medial meniscectomy. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2012, 20, 970-978.	4.2	42
108	Soleus fascicle length changes are conserved between young and old adults at their preferred walking speed. <i>Gait and Posture</i> , 2013, 38, 764-769.	1.4	39



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109	The effects of electromyography-assisted modelling in estimating musculotendon forces during gait in children with cerebral palsy. <i>Journal of Biomechanics</i> , 2019, 92, 45-53.	2.1	39
110	A Prospective, Randomized Comparison of Traditional and Accelerated Approaches to Postoperative Rehabilitation following Autologous Chondrocyte Implantation: 2-Year Clinical Outcomes. <i>Cartilage</i> , 2010, 1, 180-187.	2.7	38
111	Effects of different technical coordinate system definitions on the three dimensional representation of the glenohumeral joint centre. <i>Medical and Biological Engineering and Computing</i> , 2009, 47, 543-550.	2.8	36
112	A Longitudinal Study of Strength and Gait after Arthroscopic Partial Meniscectomy. <i>Medicine and Science in Sports and Exercise</i> , 2013, 45, 2036-2043.	0.4	36
113	Achilles tendon stress is more sensitive to subject-specific geometry than subject-specific material properties: A finite element analysis. <i>Journal of Biomechanics</i> , 2017, 56, 26-31.	2.1	36
114	On-field player workload exposure and knee injury risk monitoring via deep learning. <i>Journal of Biomechanics</i> , 2019, 93, 185-193.	2.1	36
115	What do community football players think about different exercise-training programmes? Implications for the delivery of lower limb injury prevention programmes. <i>British Journal of Sports Medicine</i> , 2014, 48, 702-707.	6.7	35
116	Three dimensional microstructural network of elastin, collagen, and cells in Achilles tendons. <i>Journal of Orthopaedic Research</i> , 2017, 35, 1203-1214.	2.3	35
117	Do Moments and Strength Predict Cartilage Changes after Partial Meniscectomy?. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 1549-1556.	0.4	34
118	Multiscale musculoskeletal modelling, data-driven model fusion and electromyography-informed modelling. <i>Interface Focus</i> , 2016, 6, 20150084.	3.0	34
119	Radiological Assessment of Accelerated versus Traditional Approaches to Postoperative Rehabilitation following Matrix-Induced Autologous Chondrocyte Implantation. <i>Cartilage</i> , 2011, 2, 60-72.	2.7	33
120	Towards a national sports safety strategy: addressing facilitators and barriers towards safety guideline uptake. <i>Injury Prevention</i> , 2011, 17, 1-10.	2.4	33
121	Cancellous bone and theropod dinosaur locomotion. Part III—Inferring posture and locomotor biomechanics in extinct theropods, and its evolution on the line to birds. <i>PeerJ</i> , 2018, 6, e5777.	2.0	33
122	Effect of Ankle Taping on Knee and Ankle Joint Biomechanics in Sporting Tasks. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 2089-2097.	0.4	32
123	Feasibility of using MRIs to create subject-specific parallel-mechanism joint models. <i>Journal of Biomechanics</i> , 2017, 53, 45-55.	2.1	32
124	Cancellous bone and theropod dinosaur locomotion. Part I—an examination of cancellous bone architecture in the hindlimb bones of theropods. <i>PeerJ</i> , 2018, 6, e5778.	2.0	32
125	Coding OSICS sports injury diagnoses in epidemiological studies: does the background of the coder matter?. <i>British Journal of Sports Medicine</i> , 2014, 48, 552-556.	6.7	31
126	Bone remodelling in the natural acetabulum is influenced by muscle force-induced bone stress. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2014, 30, 28-41.	2.1	31



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127	Muscle contributions to recovery from forward loss of balance by stepping. <i>Journal of Biomechanics</i> , 2014, 47, 667-674.	2.1	31
128	Biomechanical predictors of maximal balance recovery performance amongst community-dwelling older adults. <i>Experimental Gerontology</i> , 2015, 66, 39-46.	2.8	31
129	Toward modeling locomotion using electromyography-informed 3D models: application to cerebral palsy. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2017, 9, e1368.	6.6	31
130	Neuromusculoskeletal Modeling-Based Prostheses for Recovery After Spinal Cord Injury. <i>Frontiers in Neurobotics</i> , 2019, 13, 97.	2.8	31
131	A Marker-Based Mean Finite Helical Axis Model to Determine Elbow Rotation Axes and Kinematics in Vivo. <i>Journal of Applied Biomechanics</i> , 2010, 26, 305-315.	0.8	30
132	Evolution of limb bone loading and body size in varanid lizards. <i>Journal of Experimental Biology</i> , 2011, 214, 3013-3020.	1.7	30
133	Muscle contributions to medial tibiofemoral compartment contact loading following ACL reconstruction using semitendinosus and gracilis tendon grafts. <i>PLoS ONE</i> , 2017, 12, e0176016.	2.5	30
134	Increasing level of neuromusculoskeletal model personalisation to investigate joint contact forces in cerebral palsy: A twin case study. <i>Clinical Biomechanics</i> , 2020, 72, 141-149.	1.2	30
135	The influence of speed and size on avian terrestrial locomotor biomechanics: Predicting locomotion in extinct theropod dinosaurs. <i>PLoS ONE</i> , 2018, 13, e0192172.	2.5	30
136	Ground hardness and injury in community level Australian football. <i>Journal of Science and Medicine in Sport</i> , 2012, 15, 305-310.	1.3	29
137	Lizard tricks: Overcoming conflicting requirements of speed vs climbing ability by altering biomechanics of the lizard stride. <i>Journal of Experimental Biology</i> , 2013, 216, 3854-62.	1.7	29
138	Priorities for Investment in Injury Prevention in Community Australian Football. <i>Clinical Journal of Sport Medicine</i> , 2013, 23, 430-438.	1.8	29
139	Evaluating cost function criteria in predicting healthy gait. <i>Journal of Biomechanics</i> , 2021, 123, 110530.	2.1	29
140	Scientific evidence is just the starting point: A generalizable process for developing sports injury prevention interventions. <i>Journal of Sport and Health Science</i> , 2016, 5, 334-341.	6.5	28
141	The influence and biomechanical role of cartilage split line pattern on tibiofemoral cartilage stress distribution during the stance phase of gait. <i>Biomechanics and Modeling in Mechanobiology</i> , 2016, 15, 195-204.	2.8	28
142	Finding the sweet spot via personalised Achilles tendon training: the future is within reach. <i>British Journal of Sports Medicine</i> , 2019, 53, 11-12.	6.7	28
143	A conceptual framework for computational models of Achilles tendon homeostasis. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2013, 5, 523-538.	6.6	27
144	Effects of hip joint centre mislocation on gait kinematics of children with cerebral palsy calculated using patient-specific direct and inverse kinematic models. <i>Gait and Posture</i> , 2017, 57, 154-160.	1.4	27

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145	Tibiofemoral joint contact forces increase with load magnitude and walking speed but remain almost unchanged with different types of carried load. <i>PLoS ONE</i> , 2018, 13, e0206859.	2.5	27
146	Muscle activations to stabilize the knee following arthroscopic partial meniscectomy. <i>Clinical Biomechanics</i> , 2011, 26, 292-297.	1.2	26
147	Could Targeted Exercise Programmes Prevent Lower Limb Injury in Community Australian Football?. <i>Sports Medicine</i> , 2013, 43, 751-763.	6.5	26
148	Injuries in community-level Australian football: Results from a club-based injury surveillance system. <i>Journal of Science and Medicine in Sport</i> , 2015, 18, 651-655.	1.3	26
149	Different visual stimuli affect body reorientation strategies during sidestepping. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2017, 27, 492-500.	2.9	26
150	Reliability of functional and predictive methods to estimate the hip joint centre in human motion analysis in healthy adults. <i>Gait and Posture</i> , 2017, 53, 179-184.	1.4	26
151	Combining in silico and in vitro experiments to characterize the role of fascicle twist in the Achilles tendon. <i>Scientific Reports</i> , 2018, 8, 13856.	3.3	26
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