

Ilse Jonkers

List of Publications by Year in descending order

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Version: 2024-02-01

205
papers

6,383
citations

76031

42
h-index

124990

64
g-index

229
all docs

229
docs citations

229
times ranked

5541
citing authors

#	ARTICLE	IF	CITATIONS
1	Single leg hop for distance symmetry masks lower limb biomechanics: time to discuss hop distance as decision criterion for return to sport after ACL reconstruction?. <i>British Journal of Sports Medicine</i> , 2022, 56, 249-256.	3.1	51
2	Thin patient-specific clavicle fracture fixation plates can mechanically outperform commercial plates: An in silico approach. <i>Journal of Orthopaedic Research</i> , 2022, 40, 1695-1706.	1.2	3
3	Joint kinematics alone can distinguish hip or knee osteoarthritis patients from asymptomatic controls with high accuracy. <i>Journal of Orthopaedic Research</i> , 2022, 40, 2229-2239.	1.2	4
4	Single leg vertical jump performance identifies knee function deficits at return to sport after ACL reconstruction in male athletes. <i>British Journal of Sports Medicine</i> , 2022, 56, 490-498.	3.1	55
5	Normal aging affects unconstrained three-dimensional reaching against gravity with reduced vertical precision and increased co-contraction: a pilot study. <i>Experimental Brain Research</i> , 2022, 240, 1029.	0.7	2
6	The role of medial ligaments and tibialis posterior in stabilising the medial longitudinal foot arch: a cadaveric gait simulator study. <i>Foot and Ankle Surgery</i> , 2022, 28, 906-911.	0.8	2
7	Symmetry in Triple Hop Distance Hides Asymmetries in Knee Function After ACL Reconstruction in Athletes at Return to Sports. <i>American Journal of Sports Medicine</i> , 2022, 50, 441-450.	1.9	19
8	Between-Limb Symmetry in ACL and Tibiofemoral Contact Forces in Athletes After ACL Reconstruction and Clearance for Return to Sport. <i>Orthopaedic Journal of Sports Medicine</i> , 2022, 10, 232596712210847.	0.8	6
9	Movement Quality Parameters during Gait Assessed by a Single Accelerometer in Subjects with Osteoarthritis and Following Total Joint Arthroplasty. <i>Sensors</i> , 2022, 22, 2955.	2.1	9
10	Inertial Sensor-to-Segment Calibration for Accurate 3D Joint Angle Calculation for Use in OpenSim. <i>Sensors</i> , 2022, 22, 3259.	2.1	10
11	Can the Output of a Learned Classification Model Monitor a Person's Functional Recovery Status Post-Total Knee Arthroplasty?. <i>Sensors</i> , 2022, 22, 3698.	2.1	4
12	The Exo4Work shoulder exoskeleton effectively reduces muscle and joint loading during simulated occupational tasks above shoulder height. <i>Applied Ergonomics</i> , 2022, 103, 103800.	1.7	16
13	Automated muscle elongation measurement during reverse shoulder arthroplasty planning. <i>Journal of Shoulder and Elbow Surgery</i> , 2021, 30, 561-571.	1.2	7
14	12 Degrees of Freedom Muscle Force Driven Fibril-Reinforced Poroviscoelastic Finite Element Model of the Knee Joint. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021, 29, 123-133.	2.7	15
15	The effect of hip muscle weakness and femoral bony deformities on gait performance. <i>Gait and Posture</i> , 2021, 83, 280-286.	0.6	6
16	Computationally Efficient Optimization Method to Quantify the Required Surgical Accuracy for a Ligament Balanced TKA. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 3273-3280.	2.5	5
17	Evaluation of functional muscle anatomy scalability in the canine hind limb. <i>Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia</i> , 2021, 50, 637-644.	0.3	0
18	Similar sensorimotor transformations control balance during standing and walking. <i>PLoS Computational Biology</i> , 2021, 17, e1008369.	1.5	18

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19	ESB Clinical Biomechanics Award 2020: Pelvis and hip movement strategies discriminate typical and pathological femoral growth – Insights gained from a multi-scale mechanobiological modelling framework. <i>Clinical Biomechanics</i> , 2021, 87, 105405.	0.5	12
20	Generic scaled versus subject-specific models for the calculation of musculoskeletal loading in cerebral palsy gait: Effect of personalized musculoskeletal geometry outweighs the effect of personalized neural control. <i>Clinical Biomechanics</i> , 2021, 87, 105402.	0.5	33
21	Perturbation of cortical activity elicits regional and age-dependent effects on unconstrained reaching behavior: a pilot study. <i>Experimental Brain Research</i> , 2021, 239, 3585-3600.	0.7	2
22	Subject-Specific Spino-Pelvic Models Reliably Measure Spinal Kinematics During Seated Forward Bending in Adult Spinal Deformity. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 720060.	2.0	0
23	Musculoskeletal modeling-based definition of load cases and worst-case fracture orientation for the design of clavicle fixation plates. <i>Journal of Orthopaedic Research</i> , 2021, , .	1.2	0
24	Measuring only hop distance during single leg hop testing is insufficient to detect deficits in knee function after ACL reconstruction: a systematic review and meta-analysis. <i>British Journal of Sports Medicine</i> , 2020, 54, 139-153.	3.1	88
25	Combined manual and automatic landmark detection for enhanced surface registration of anatomical structures: an extensive parameter study for femur and clavicle. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2020, 8, 94-102.	1.3	2
26	Implementation of physiological functional spinal units in a rigid-body model of the thoracolumbar spine. <i>Journal of Biomechanics</i> , 2020, 98, 109437.	0.9	21
27	Development and validation of a modeling workflow for the generation of image-based, subject-specific thoracolumbar models of spinal deformity. <i>Journal of Biomechanics</i> , 2020, 110, 109946.	0.9	11
28	Botulinum toxin injections minimally affect modelled muscle forces during gait in children with cerebral palsy. <i>Gait and Posture</i> , 2020, 82, 54-60.	0.6	9
29	A multi-scale modelling framework combining musculoskeletal rigid-body simulations with adaptive finite element analyses, to evaluate the impact of femoral geometry on hip joint contact forces and femoral bone growth. <i>PLoS ONE</i> , 2020, 15, e0235966.	1.1	42
30	In Silico-Enhanced Treatment and Rehabilitation Planning for Patients with Musculoskeletal Disorders: Can Musculoskeletal Modelling and Dynamic Simulations Really Impact Current Clinical Practice?. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7255.	1.3	20
31	Intrinsic foot muscle forces: A possible biomarker of diabetes. <i>Gait and Posture</i> , 2020, 81, 64-65.	0.6	0
32	Towards the Monitoring of Functional Status in a Free-Living Environment for People with Hip or Knee Osteoarthritis: Design and Evaluation of the JOLO Blended Care App. <i>Sensors</i> , 2020, 20, 6967.	2.1	9
33	Hip Muscle Forces and Contact Loading During Squatting After Cam-Type FAI Surgery. <i>Journal of Bone and Joint Surgery - Series A</i> , 2020, 102, 34-42.	1.4	10
34	Single-event multilevel surgery, but not botulinum toxin injections normalize joint loading in cerebral palsy patients. <i>Clinical Biomechanics</i> , 2020, 76, 105025.	0.5	7
35	Virtual Reality Balance Games Provide Little Muscular Challenge to Prevent Muscle Weakness in Healthy Older Adults. <i>Games for Health Journal</i> , 2020, 9, 227-236.	1.1	14
36	Use of Computational Modeling to Study Joint Degeneration: A Review. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 93.	2.0	30

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37	Physics-Based Simulations to Predict the Differential Effects of Motor Control and Musculoskeletal Deficits on Gait Dysfunction in Cerebral Palsy: A Retrospective Case Study. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 40.	1.0	46
38	A Machine Learning Approach to Estimate Hip and Knee Joint Loading Using a Mobile Phone-Embedded IMU. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 320.	2.0	29
39	Pre-treatment sEMG can be used to model post-treatment muscle coordination during walking in children with cerebral palsy. <i>PLoS ONE</i> , 2020, 15, e0228851.	1.1	9
40	Automated quantification of glenoid bone defects using 3-dimensional measurements. <i>Journal of Shoulder and Elbow Surgery</i> , 2020, 29, 1050-1058.	1.2	17
41	Rapid predictive simulations with complex musculoskeletal models suggest that diverse healthy and pathological human gaits can emerge from similar control strategies. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190402.	1.5	158
42	SimCP: A Simulation Platform to Predict Gait Performance Following Orthopedic Intervention in Children With Cerebral Palsy. <i>Frontiers in Neurorobotics</i> , 2019, 13, 54.	1.6	40
43	The influence of knee joint geometry and alignment on the tibiofemoral load distribution: A computational study. <i>Knee</i> , 2019, 26, 813-823.	0.8	27
44	Subject-Exoskeleton Contact Model Calibration Leads to Accurate Interaction Force Predictions. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019, 27, 1597-1605.	2.7	55
45	Inverse dynamic estimates of muscle recruitment and joint contact forces are more realistic when minimizing muscle activity rather than metabolic energy or contact forces. <i>Gait and Posture</i> , 2019, 74, 223-230.	0.6	24
46	Variation of the clavicle's muscle insertion footprints – a cadaveric study. <i>Scientific Reports</i> , 2019, 9, 16293.	1.6	5
47	A probabilistic method to estimate gait kinetics in the absence of ground reaction force measurements. <i>Journal of Biomechanics</i> , 2019, 96, 109327.	0.9	5
48	Subject-specific geometry affects acetabular contact pressure during gait more than subject-specific loading patterns. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019, 22, 1323-1333.	0.9	5
49	Non-rigid deformation to include subject-specific detail in musculoskeletal models of CP children with proximal femoral deformity and its effect on muscle and contact forces during gait. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019, 22, 376-385.	0.9	6
50	Augmented Ligament Reconstruction Partially Restores Hindfoot and Midfoot Kinematics After Lateral Ligament Ruptures. <i>American Journal of Sports Medicine</i> , 2019, 47, 1921-1930.	1.9	20
51	Model-based control for exoskeletons with series elastic actuators evaluated on sit-to-stand movements. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2019, 16, 65.	2.4	47
52	Combined enzymatic degradation of proteoglycans and collagen significantly alters intratissue strains in articular cartilage during cyclic compression. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 98, 383-394.	1.5	24
53	Patients With Medial Knee Osteoarthritis Reduce Medial Knee Contact Forces by Altering Trunk Kinematics, Progression Speed, and Stepping Strategy During Stair Ascent and Descent: A Pilot Study. <i>Journal of Applied Biomechanics</i> , 2019, 35, 280-289.	0.3	10
54	Variation of actin filament length in dogs. <i>Journal of Anatomy</i> , 2019, 234, 694-699.	0.9	1

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55	Selective dorsal rhizotomy improves muscle forces during walking in children with spastic cerebral palsy. <i>Clinical Biomechanics</i> , 2019, 65, 26-33.	0.5	22
56	A musculoskeletal model customized for squatting task. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019, 22, 21-24.	0.9	68
57	Increased use of stepping strategy in response to medio-lateral perturbations in the elderly relates to altered reactive tibialis anterior activity. <i>Gait and Posture</i> , 2019, 68, 575-582.	0.6	35
58	Topographical Variation of Human Femoral Articular Cartilage Thickness, T1rho and T2 Relaxation Times Is Related to Local Loading during Walking. <i>Cartilage</i> , 2019, 10, 229-237.	1.4	14
59	SimCP: A Simulation Platform to Predict Gait Performance Following Orthopedic Intervention in Children with Cerebral Palsy. <i>Biosystems and Biorobotics</i> , 2019, , 267-270.	0.2	0
60	Longitudinal joint loading in patients before and up to one year after unilateral total hip arthroplasty. <i>Gait and Posture</i> , 2018, 61, 117-124.	0.6	35
61	Knee Joint Loading in Healthy Adults During Functional Exercises: Implications for Rehabilitation Guidelines. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2018, 48, 162-173.	1.7	71
62	Virtual reconstruction of glenoid bone defects using a statistical shape model. <i>Journal of Shoulder and Elbow Surgery</i> , 2018, 27, 160-166.	1.2	42
63	Increased sensory noise and not muscle weakness explains changes in non-stepping postural responses following stance perturbations in healthy elderly. <i>Gait and Posture</i> , 2018, 59, 122-127.	0.6	15
64	Mobile assessment of the lower limb kinematics in healthy persons and in persons with degenerative knee disorders: A systematic review. <i>Gait and Posture</i> , 2018, 59, 229-241.	0.6	44
65	Hip movement pathomechanics of patients with hip osteoarthritis aim at reducing hip joint loading on the osteoarthritic side. <i>Gait and Posture</i> , 2018, 59, 11-17.	0.6	47
66	Virtual reality balance training for elderly: Similar skiing games elicit different challenges in balance training. <i>Gait and Posture</i> , 2018, 59, 111-116.	0.6	42
67	Performance on Balance Evaluation Systems Test (BESTest) Impacts Health-Related Quality of Life in Adult Spinal Deformity Patients. <i>Spine</i> , 2018, 43, 637-646.	1.0	16
68	A methodological framework for detecting ulcersâ€™ risk in diabetic foot subjects by combining gait analysis, a new musculoskeletal foot model and a foot finite element model. <i>Gait and Posture</i> , 2018, 60, 279-285.	0.6	34
69	Effect of a prehop on the muscle-tendon interaction during vertical jumps. <i>Journal of Applied Physiology</i> , 2018, 124, 1203-1211.	1.2	10
70	A spasticity model based on feedback from muscle force explains muscle activity during passive stretches and gait in children with cerebral palsy. <i>PLoS ONE</i> , 2018, 13, e0208811.	1.1	56
71	Subjects with medial and lateral tibiofemoral articular cartilage defects do not alter compartmental loading during walking. <i>Clinical Biomechanics</i> , 2018, 60, 149-156.	0.5	9
72	Functional assessment of strains around a full-thickness and critical sized articular cartilage defect under compressive loading using MRI. <i>Osteoarthritis and Cartilage</i> , 2018, 26, 1710-1721.	0.6	15

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73	ANP32A regulates ATM expression and prevents oxidative stress in cartilage, brain, and bone. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	27
74	Cartilage-on-cartilage contact: effect of compressive loading on tissue deformations and structural integrity of bovine articular cartilage. <i>Osteoarthritis and Cartilage</i> , 2018, 26, 1699-1709.	0.6	21
75	OpenSim Versus Human Body Model: A Comparison Study for the Lower Limbs During Gait. <i>Journal of Applied Biomechanics</i> , 2018, 34, 496-502.	0.3	33
76	Ranking of osteogenic potential of physical exercises in postmenopausal women based on femoral neck strains. <i>PLoS ONE</i> , 2018, 13, e0195463.	1.1	27
77	Modulation of gluteus medius activity reflects the potential of the muscle to meet the mechanical demands during perturbed walking. <i>Scientific Reports</i> , 2018, 8, 11675.	1.6	28
78	The influence of maximum isometric muscle force scaling on estimated muscle forces from musculoskeletal models of children with cerebral palsy. <i>Gait and Posture</i> , 2018, 65, 213-220.	0.6	36
79	Musculotendon excursion potential, tendon slack and muscle fibre length: the interaction of the canine gastrocnemius muscle and tendon. <i>Journal of Anatomy</i> , 2018, 233, 460-467.	0.9	22
80	Reliability of 3D Lower Extremity Movement Analysis by Means of Inertial Sensor Technology during Transitional Tasks. <i>Sensors</i> , 2018, 18, 2638.	2.1	8
81	Functional MRI can detect changes in intratissue strains in a full thickness and critical sized ovine cartilage defect model. <i>Journal of Biomechanics</i> , 2018, 66, 18-25.	0.9	16
82	Objectifying Treatment Outcomes Using Musculoskeletal Modelling-Based Simulations of Motion. , 2018, , 1-25.		3
83	Extended foot-ankle musculoskeletal models for application in movement analysis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 153-159.	0.9	27
84	Differences in knee adduction moment between healthy subjects and patients with osteoarthritis depend on the knee axis definition. <i>Gait and Posture</i> , 2017, 53, 104-109.	0.6	20
85	Less hip joint loading only during running rather than walking in elderly compared to young adults. <i>Gait and Posture</i> , 2017, 53, 155-161.	0.6	11
86	Robustness of kinematic weighting and scaling concepts for musculoskeletal simulation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 720-729.	0.9	6
87	Joint power generation differentiates young and adult sprinters during the transition from block start into acceleration: a cross-sectional study. <i>Sports Biomechanics</i> , 2017, 16, 452-462.	0.8	10
88	Evaluation of predicted knee function for component malrotation in total knee arthroplasty. <i>Medical Engineering and Physics</i> , 2017, 40, 56-64.	0.8	16
89	Validation of plantar pressure simulations using finite and discrete element modelling in healthy and diabetic subjects. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 1442-1452.	0.9	2
90	Clinical Case: Simulation-based evaluation of post-operative gait function to support clinical decision making in cerebral palsy. <i>Gait and Posture</i> , 2017, 57, 102-103.	0.6	3

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91	The role of muscle forces on foot internal stresses and plantar pressure distribution: differences between healthy and diabetic neuropathic subjects. <i>Gait and Posture</i> , 2017, 57, 73-74.	0.6	0
92	Assessment of specific muscle tension in dogs through functional electrical stimulation of the gastrocnemius muscle. <i>Research in Veterinary Science</i> , 2017, 113, 33-39.	0.9	0
93	Comparison of lower limb muscle strength between diabetic neuropathic and healthy subjects using OpenSim. <i>Gait and Posture</i> , 2017, 58, 194-200.	0.6	21
94	EMG-Driven Optimal Estimation of Subject-SPECIFIC Hill Model Muscle-Tendon Parameters of the Knee Joint Actuators. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 2253-2262.	2.5	55
95	Real-Time Gait Event Detection Based on Kinematic Data Coupled to a Biomechanical Model. <i>Sensors</i> , 2017, 17, 671.	2.1	27
96	The Differential Effect of Arm Movements during Gait on the Forward Acceleration of the Centre of Mass in Children with Cerebral Palsy and Typically Developing Children. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 96.	1.0	7
97	Knee Cartilage Thickness, T1- and T2 Relaxation Time Are Related to Articular Cartilage Loading in Healthy Adults. <i>PLoS ONE</i> , 2017, 12, e0170002.	1.1	46
98	Medial knee loading is altered in subjects with early osteoarthritis during gait but not during step-up-and-over task. <i>PLoS ONE</i> , 2017, 12, e0187583.	1.1	39
99	Musculoskeletal modelling in dogs: challenges and future perspectives. <i>Veterinary and Comparative Orthopaedics and Traumatology</i> , 2016, 29, 181-187.	0.2	22
100	Gait alterations can reduce the risk of edge loading. <i>Journal of Orthopaedic Research</i> , 2016, 34, 1069-1076.	1.2	9
101	Cartilage volume and thickness but not biochemical properties relate to joint loading during gait in healthy controls. <i>Osteoarthritis and Cartilage</i> , 2016, 24, S112.	0.6	0
102	Foot-ankle simulators: A tool to advance biomechanical understanding of a complex anatomical structure. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2016, 230, 440-449.	1.0	4
103	A patient-specific guide for optimizing custom-made glenoid implantation in cases of severe glenoid defects: an <i>in vitro</i> study. <i>Journal of Shoulder and Elbow Surgery</i> , 2016, 25, 837-845.	1.2	36
104	Subject-specific musculoskeletal modelling in patients before and after total hip arthroplasty. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 1683-1691.	0.9	32
105	Mechanical effort predicts the selection of ankle over hip strategies in nonstepping postural responses. <i>Journal of Neurophysiology</i> , 2016, 116, 1937-1945.	0.9	22
106	A prospective follow up of age related changes in the subchondral bone density of the talus of healthy Labrador Retrievers. <i>BMC Veterinary Research</i> , 2016, 13, 57.	0.7	4
107	Tibiofemoral joint loading during therapeutic exercises and activities of daily living: Implications for rehabilitation in osteoarthritis and cartilage repair surgery. <i>Osteoarthritis and Cartilage</i> , 2016, 24, S111-S112.	0.6	0
108	Quantifying thumb opposition kinematics using dynamic computed tomography. <i>Journal of Biomechanics</i> , 2016, 49, 1994-1999.	0.9	25

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109	Subchondral bone density distribution of the talus in clinically normal Labrador Retrievers. BMC Veterinary Research, 2016, 12, 56.	0.7	4
110	Changes in proprioceptive weighting during quiet standing in women with early and established knee osteoarthritis compared to healthy controls. Gait and Posture, 2016, 44, 184-188.	0.6	10
111	The role of altered proximal femoral geometry in impaired pelvis stability and hip control during CP gait: A simulation study. Gait and Posture, 2016, 44, 61-67.	0.6	18
112	Does surgical approach or prosthesis type affect hip joint loading one year after surgery?. Gait and Posture, 2016, 44, 74-82.	0.6	19
113	Knee contact forces are not altered in early knee osteoarthritis. Gait and Posture, 2016, 45, 115-120.	0.6	61
114	Subject-specific geometrical detail rather than cost function formulation affects hip loading calculation. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 1475-1488.	0.9	37
115	Insertion of a pressure sensing array minimally affects hindfoot bone kinematics. Journal of Foot and Ankle Research, 2015, 8, 24.	0.7	3
116	Loading of Hip Measured by Hip Contact Forces at Different Speeds of Walking and Running. Journal of Bone and Mineral Research, 2015, 30, 1431-1440.	3.1	76
117	Extrinsic Muscle Forces Affect Ankle Loading Before and After Total Ankle Arthroplasty. Clinical Orthopaedics and Related Research, 2015, 473, 3028-3037.	0.7	9
118	Inertial control as novel technique for in vitro gait simulations. Journal of Biomechanics, 2015, 48, 392-395.	0.9	12
119	Muscle optimization techniques impact the magnitude of calculated hip joint contact forces. Journal of Orthopaedic Research, 2015, 33, 430-438.	1.2	44
120	Gait alterations to effectively reduce hip contact forces. Journal of Orthopaedic Research, 2015, 33, 1094-1102.	1.2	63
121	Changes in proprioceptive weighting in women with knee osteoarthritis during quiet standing compared to healthy controls. Osteoarthritis and Cartilage, 2015, 23, A101.	0.6	0
122	A quantitative assessment of varus thrust during walking in women with early and established medial knee osteoarthritis.. Osteoarthritis and Cartilage, 2015, 23, A100.	0.6	0
123	Sensitivity of predicted muscle forces during gait to anatomical variability in musculotendon geometry. Journal of Biomechanics, 2015, 48, 2116-2123.	0.9	31
124	Control of propulsion and body lift during the first two stances of sprint running: a simulation study. Journal of Sports Sciences, 2015, 33, 2016-2024.	1.0	34
125	Muscle contributions to centre of mass acceleration during turning gait in typically developing children: A simulation study. Journal of Biomechanics, 2015, 48, 4238-4245.	0.9	17
126	Computed tomography-based joint locations affect calculation of joint moments during gait when compared to scaling approaches. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 1238-1251.	0.9	18

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127	Task constraints and minimization of muscle effort result in a small number of muscle synergies during gait. <i>Frontiers in Computational Neuroscience</i> , 2014, 8, 115.	1.2	64
128	Influence of altered gait patterns on the hip joint contact forces. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014, 17, 352-359.	0.9	20
129	A new method for estimating subject-specific muscle-tendon parameters of the knee joint actuators: a simulation study. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2014, 30, 969-987.	1.0	22
130	Hip contact force in presence of aberrant bone geometry during normal and pathological gait. <i>Journal of Orthopaedic Research</i> , 2014, 32, 1406-1415.	1.2	44
131	Arm swing in human walking: What is their drive?. <i>Gait and Posture</i> , 2014, 40, 321-326.	0.6	50
132	Forefoot deformation during stance: Does the forefoot collapse during loading?. <i>Gait and Posture</i> , 2014, 39, 40-47.	0.6	19
133	The effect of perturbing body segment parameters on calculated joint moments and muscle forces during gait. <i>Journal of Biomechanics</i> , 2014, 47, 596-601.	0.9	26
134	The effect of muscle weakness on the capability gap during gross motor function: a simulation study supporting design criteria for exoskeletons of the lower limb. <i>BioMedical Engineering OnLine</i> , 2014, 13, 111.	1.3	32
135	Altering length and velocity feedback during a neuro-musculoskeletal simulation of normal gait contributes to hemiparetic gait characteristics. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2014, 11, 78.	2.4	32
136	The contribution of knee extensor and plantarflexor hyperexcitability to gait impairments after stroke: A simulation study. <i>Gait and Posture</i> , 2014, 39, S32.	0.6	0
137	Role of subject-specific musculoskeletal loading on the prediction of bone density distribution in the proximal femur. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 30, 244-252.	1.5	37
138	Neuromuscular strategies during gait in women with early and established knee osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2014, 22, S82-S83.	0.6	0
139	How gravity and muscle action control mediolateral center of mass excursion during slow walking: A simulation study. <i>Gait and Posture</i> , 2014, 39, 91-97.	0.6	34
140	Subjects with severe knee osteoarthritis reduce medio-lateral forces during gait at the expense of compressive knee contact forces. <i>Osteoarthritis and Cartilage</i> , 2014, 22, S99-S100.	0.6	0
141	Characterisation of walking loads by 3D inertial motion tracking. <i>Journal of Sound and Vibration</i> , 2014, 333, 5212-5226.	2.1	65
142	Different alterations in the sit to stand movement pattern in women with early and established medial compartment knee osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2013, 21, S95.	0.6	1
143	Gait stability in children with Cerebral Palsy. <i>Research in Developmental Disabilities</i> , 2013, 34, 1689-1699.	1.2	43
144	Muscle contributions to center of mass acceleration adapt to asymmetric walking in healthy subjects. <i>Gait and Posture</i> , 2013, 38, 739-744.	0.6	14

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145	Gait characteristics and lower limb muscle strength in women with early and established knee osteoarthritis. <i>Clinical Biomechanics</i> , 2013, 28, 40-47.	0.5	58
146	Kinetic and kinematic characteristics of stair negotiation in patients with medial knee osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2013, 21, S257.	0.6	2
147	Influence of weak hip abductor muscles on joint contact forces during normal walking: probabilistic modeling analysis. <i>Journal of Biomechanics</i> , 2013, 46, 2186-2193.	0.9	68
148	In vitro analysis of muscle activity illustrates mediolateral decoupling of hind and mid foot bone motion. <i>Gait and Posture</i> , 2013, 38, 56-61.	0.6	17
149	An Extended Dynamometer Setup to Improve the Accuracy of Knee Joint Moment Assessment. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 1202-1208.	2.5	4
150	Proprioceptive accuracy in women with early and established knee osteoarthritis and its relation to functional ability, postural control, and muscle strength. <i>Clinical Rheumatology</i> , 2013, 32, 1365-1374.	1.0	45
151	Altered talar and navicular bone morphology is associated with pes planus deformity: A CT scan study. <i>Journal of Orthopaedic Research</i> , 2013, 31, 282-287.	1.2	38
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