

Ilse Jonkers

List of Publications by Year in descending order

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228
papers

7,840
citations

46636

47
h-index

83414

72
g-index

258
all docs

258
docs citations

258
times ranked

8506
citing authors

#	ARTICLE	IF	CITATIONS
1	A Spontaneous In Situ Thiol-Ene Crosslinking Hydrogel with Thermo-Responsive Mechanical Properties. <i>Polymers</i> , 2024, 16, 1264.	4.6	0
2	Understanding the role of mechanical stimuli in chondrocyte responsiveness and adaptations: Need for integrating insights on OA-associated changes in the multi-scale mechanical environment. <i>Physics of Life Reviews</i> , 2024, 50, 49-50.	7.5	0
3	Osteoarthritis year in review 2024: Biomechanics. <i>Osteoarthritis and Cartilage</i> , 2024, , .	1.3	0
4	Bayesian parameter estimation of ligament properties based on tibio-femoral kinematics during squatting. <i>Mechanical Systems and Signal Processing</i> , 2023, 182, 109525.	8.2	9
5	Unique shape variations of hind and midfoot bones in flatfoot subjectsâ€”A statistical shape modeling approach. <i>Clinical Anatomy</i> , 2023, 36, 848-857.	2.4	2
6	Musculoskeletal-Modeling-Based, Full-Body Load-Assessment Tool for Ergonomists (MATE): Method Development and Proof of Concept Case Studies. <i>International Journal of Environmental Research and Public Health</i> , 2023, 20, 1507.	2.7	3
7	Peak Tibiofemoral Contact Forces Estimated Using IMU-Based Approaches Are Not Significantly Different from Motion Capture-Based Estimations in Patients with Knee Osteoarthritis. <i>Sensors</i> , 2023, 23, 4484.	4.0	6
8	A population-based approach to study the effect of tibiofemoral geometrical features on knee joint loading. <i>Gait and Posture</i> , 2023, 106, S238-S239.	1.6	0
9	Prolonged mechanical muscle loading increases mechanosensor gene and protein levels and causes a moderate fast-to-slow fiber type switch in mice. <i>Journal of Applied Physiology</i> , 2023, 135, 918-931.	2.7	1
10	Nonâ€”Volatile Hybrid Optical Phase Shifter Driven by a Ferroelectric Transistor. <i>Laser and Photonics Reviews</i> , 2023, 17, .	10.1	2
11	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.	8.6	59
12	Thin patientâ€”specific clavicle fracture fixation plates can mechanically outperform commercial plates: An in silico approach. <i>Journal of Orthopaedic Research</i> , 2022, 40, 1695-1706.	2.4	6
13	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.	2.4	4
14	Musculoskeletal modelingâ€”based definition of load cases and worstâ€”case fracture orientation for the design of clavicle fixation plates. <i>Journal of Orthopaedic Research</i> , 2022, 40, 2179-2188.	2.4	1
15	Binding antibody levels to vaccine (HPV6/11/16/18) and non-vaccine (HPV31/33/45/52/58) HPV antigens up to 7Â”years following immunization with either CervarixÂ” or GardasilÂ” vaccine. <i>Vaccine</i> , 2022, 40, 1198-1202.	4.0	2
16	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.	8.6	71
17	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, 1029-1044.	1.5	3
18	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.	1.7	2

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19	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.	4.3	26
20	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.	2.2	6
21	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.	4.0	10
22	Inertial Sensor-to-Segment Calibration for Accurate 3D Joint Angle Calculation for Use in OpenSim. <i>Sensors</i> , 2022, 22, 3259.	4.0	14
23	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.	4.0	4
24	The Exo4Work shoulder exoskeleton effectively reduces muscle and joint loading during simulated occupational tasks above shoulder height. <i>Applied Ergonomics</i> , 2022, 103, 103800.	3.2	19
25	Automated muscle elongation measurement during reverse shoulder arthroplasty planning. <i>Journal of Shoulder and Elbow Surgery</i> , 2021, 30, 561-571.	2.5	8
26	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.	5.0	16
27	The effect of hip muscle weakness and femoral bony deformities on gait performance. <i>Gait and Posture</i> , 2021, 83, 280-286.	1.6	8
28	Multivariate copula quantile mapping for bias correction of reanalysis air temperature data. <i>Journal of Spatial Science</i> , 2021, 66, 299-315.	1.5	5
29	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.	4.4	5
30	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.	0.8	0
31	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.	1.3	13
32	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.	1.3	40
33	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.	1.5	2
34	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.	4.2	0
35	A gluing approach for the fractional Yamabe problem with isolated singularities. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 2020, 2020, 25-78.	0.8	13
36	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.	8.6	103

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37	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.	2.0	3
38	Implementation of physiological functional spinal units in a rigid-body model of the thoracolumbar spine. <i>Journal of Biomechanics</i> , 2020, 98, 109437.	2.1	23
39	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.	2.1	14
40	Disseminated histoplasmosis with duodenal involvement. <i>Gastroenterology & Hepatology</i> , 2020, 43, 453-454.	0.5	2
41	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.	2.5	47
42	Implementation of the Los Angeles Tiered Dispatch System is associated with an increase in telecommunicator-assisted CPR. <i>Resuscitation</i> , 2020, 155, 74-81.	2.9	7
43	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.	2.6	24
44	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.	4.0	9
45	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.	3.0	13
46	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.	2.3	18
47	Use of Computational Modeling to Study Joint Degeneration: A Review. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 93.	4.2	31
48	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.	2.1	49
49	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.	4.2	31
50	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.	2.5	10
51	Automated quantification of glenoid bone defects using 3-dimensional measurements. <i>Journal of Shoulder and Elbow Surgery</i> , 2020, 29, 1050-1058.	2.5	19
52	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.	3.4	176
53	SimCP: A Simulation Platform to Predict Gait Performance Following Orthopedic Intervention in Children With Cerebral Palsy. <i>Frontiers in Neurobotics</i> , 2019, 13, 54.	2.9	49
54	The influence of knee joint geometry and alignment on the tibiofemoral load distribution: A computational study. <i>Knee</i> , 2019, 26, 813-823.	1.6	34

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55	Subject-Exoskeleton Contact Model Calibration Leads to Accurate Interaction Force Predictions. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1597-1605.	5.0	59
56	Inverse dynamic estimates of muscle recruitment and joint contact forces are more realistic when minimizing muscle activity rather than metabolic energy or contact forces. Gait and Posture, 2019, 74, 223-230.	1.6	28
57	Variation of the clavicle's muscle insertion footprints – a cadaveric study. Scientific Reports, 2019, 9, 16293.	3.4	6
58	A probabilistic method to estimate gait kinetics in the absence of ground reaction force measurements. Journal of Biomechanics, 2019, 96, 109327.	2.1	5
59	Subject-specific geometry affects acetabular contact pressure during gait more than subject-specific loading patterns. Computer Methods in Biomechanics and Biomedical Engineering, 2019, 22, 1323-1333.	1.7	8
60	Squat Lifting Imposes Higher Peak Joint and Muscle Loading Compared to Stoop Lifting. Applied Sciences (Switzerland), 2019, 9, 3794.	2.6	16
61	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. Computer Methods in Biomechanics and Biomedical Engineering, 2019, 22, 376-385.	1.7	8
62	Augmented Ligament Reconstruction Partially Restores Hindfoot and Midfoot Kinematics After Lateral Ligament Ruptures. American Journal of Sports Medicine, 2019, 47, 1921-1930.	4.3	20
63	Model-based control for exoskeletons with series elastic actuators evaluated on sit-to-stand movements. Journal of NeuroEngineering and Rehabilitation, 2019, 16, 65.	4.8	54
64	Combined enzymatic degradation of proteoglycans and collagen significantly alters intratissue strains in articular cartilage during cyclic compression. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 98, 383-394.	3.1	24
65	Variation of actin filament length in dogs. Journal of Anatomy, 2019, 234, 694-699.	1.7	1
66	Selective dorsal rhizotomy improves muscle forces during walking in children with spastic cerebral palsy. Clinical Biomechanics, 2019, 65, 26-33.	1.3	22
67	A musculoskeletal model customized for squatting task. Computer Methods in Biomechanics and Biomedical Engineering, 2019, 22, 21-24.	1.7	75
68	Increased use of stepping strategy in response to medio-lateral perturbations in the elderly relates to altered reactive tibialis anterior activity. Gait and Posture, 2019, 68, 575-582.	1.6	39
69	Topographical Variation of Human Femoral Articular Cartilage Thickness, T1rho and T2 Relaxation Times Is Related to Local Loading during Walking. Cartilage, 2019, 10, 229-237.	2.8	16
70	SimCP: A Simulation Platform to Predict Gait Performance Following Orthopedic Intervention in Children with Cerebral Palsy. Biosystems and Biorobotics, 2019, , 267-270.	0.0	0
71	Inflammatory cytokines and alpha-fetoprotein concentrations for predicting survival in patients with hepatocellular carcinoma. Translational Cancer Research, 2019, 8, 1680-1689.	1.1	2
72	pH Effects on the Selectivity of the Electrocatalytic CO ₂ Reduction on Graphene-Embedded Fe-N-C Motifs: Bridging Concepts between Molecular Homogeneous and Solid-State Heterogeneous Catalysis. ACS Energy Letters, 2018, 3, 812-817.	18.4	177

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73	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.	1.6	44
74	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.	3.7	76
75	Virtual reconstruction of glenoid bone defects using a statistical shape model. <i>Journal of Shoulder and Elbow Surgery</i> , 2018, 27, 160-166.	2.5	45
76	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.	1.6	17
77	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.	1.6	53
78	Virtual reality balance training for elderly: Similar skiing games elicit different challenges in balance training. <i>Gait and Posture</i> , 2018, 59, 111-116.	1.6	47
79	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.	2.1	17
80	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.	1.6	35
81	Effect of a prehop on the muscle-tendon interaction during vertical jumps. <i>Journal of Applied Physiology</i> , 2018, 124, 1203-1211.	2.7	10
82	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.	2.5	57
83	Subjects with medial and lateral tibiofemoral articular cartilage defects do not alter compartmental loading during walking. <i>Clinical Biomechanics</i> , 2018, 60, 149-156.	1.3	10
84	ANP32A regulates ATM expression and prevents oxidative stress in cartilage, brain, and bone. <i>Science Translational Medicine</i> , 2018, 10, .	13.4	28
85	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.	1.3	22
86	Ranking of osteogenic potential of physical exercises in postmenopausal women based on femoral neck strains. <i>PLoS ONE</i> , 2018, 13, e0195463.	2.5	28
87	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.	3.4	30
88	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.	1.6	36
89	Changes in the epidemiology and distribution of the hepatitis C virus genotypes in North-Eastern Spain over the last 35 years. <i>GastroenterologÃa Y HepatologÃa (English Edition)</i> , 2018, 41, 2-11.	0.1	0
90	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.	1.7	22

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91	Reliability of 3D Lower Extremity Movement Analysis by Means of Inertial Sensor Technology during Transitional Tasks. <i>Sensors</i> , 2018, 18, 2638.	4.0	8
92	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.	2.1	18
93	Objectifying Treatment Outcomes Using Musculoskeletal Modelling-Based Simulations of Motion. , 2018, , 1-25.		3
94	Extended foot-ankle musculoskeletal models for application in movement analysis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 153-159.	1.7	31
95	The petrology and chronology of NWA 8009 impact melt breccia: Implication for early thermal and impact histories of Vesta. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 204, 159-178.	3.9	14
96	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.	1.6	12
97	Robustness of kinematic weighting and scaling concepts for musculoskeletal simulation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 720-729.	1.7	8
98	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.	1.5	10
99	Evaluation of predicted knee function for component malrotation in total knee arthroplasty. <i>Medical Engineering and Physics</i> , 2017, 40, 56-64.	1.8	17
100	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.	2.0	0
101	Comparison of lower limb muscle strength between diabetic neuropathic and healthy subjects using OpenSim. <i>Gait and Posture</i> , 2017, 58, 194-200.	1.6	23
102	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.	4.4	60
103	Real-Time Gait Event Detection Based on Kinematic Data Coupled to a Biomechanical Model. <i>Sensors</i> , 2017, 17, 671.	4.0	29
104	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.	2.1	7
105	Knee Cartilage Thickness, T1 ρ and T2 Relaxation Time Are Related to Articular Cartilage Loading in Healthy Adults. <i>PLoS ONE</i> , 2017, 12, e0170002.	2.5	47
106	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.	2.5	42
107	Musculoskeletal modelling in dogs: challenges and future perspectives. <i>Veterinary and Comparative Orthopaedics and Traumatology</i> , 2016, 29, 181-187.	0.6	22
108	Gait alterations can reduce the risk of edge loading. <i>Journal of Orthopaedic Research</i> , 2016, 34, 1069-1076.	2.4	9

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109	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.	1.3	0
110	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.	1.8	4
111	A patient-specific guide for optimizing custom-made glenoid implantation in cases of severe glenoid defects: an in vitro study. <i>Journal of Shoulder and Elbow Surgery</i> , 2016, 25, 837-845.	2.5	38
112	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.	1.7	35
113	Mechanical effort predicts the selection of ankle over hip strategies in nonstepping postural responses. <i>Journal of Neurophysiology</i> , 2016, 116, 1937-1945.	1.9	25
114	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.	2.0	4
115	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.	1.3	0
116	Quantifying thumb opposition kinematics using dynamic computed tomography. <i>Journal of Biomechanics</i> , 2016, 49, 1994-1999.	2.1	26
117	Subchondral bone density distribution of the talus in clinically normal Labrador Retrievers. <i>BMC Veterinary Research</i> , 2016, 12, 56.	2.0	4
118	Changes in proprioceptive weighting during quiet standing in women with early and established knee osteoarthritis compared to healthy controls. <i>Gait and Posture</i> , 2016, 44, 184-188.	1.6	10
119	The role of altered proximal femoral geometry in impaired pelvis stability and hip control during CP gait: A simulation study. <i>Gait and Posture</i> , 2016, 44, 61-67.	1.6	21
120	Does surgical approach or prosthesis type affect hip joint loading one year after surgery?. <i>Gait and Posture</i> , 2016, 44, 74-82.	1.6	20
121	Knee contact forces are not altered in early knee osteoarthritis. <i>Gait and Posture</i> , 2016, 45, 115-120.	1.6	62
122	Subject-specific geometrical detail rather than cost function formulation affects hip loading calculation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 1475-1488.	1.7	39
123	Insertion of a pressure sensing array minimally affects hindfoot bone kinematics. <i>Journal of Foot and Ankle Research</i> , 2015, 8, 24.	2.0	3
124	Loading of Hip Measured by Hip Contact Forces at Different Speeds of Walking and Running. <i>Journal of Bone and Mineral Research</i> , 2015, 30, 1431-1440.	3.0	83
125	Extrinsic Muscle Forces Affect Ankle Loading Before and After Total Ankle Arthroplasty. <i>Clinical Orthopaedics and Related Research</i> , 2015, 473, 3028-3037.	1.5	9
126	Inertial control as novel technique for in vitro gait simulations. <i>Journal of Biomechanics</i> , 2015, 48, 392-395.	2.1	12

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127	Muscle optimization techniques impact the magnitude of calculated hip joint contact forces. <i>Journal of Orthopaedic Research</i> , 2015, 33, 430-438.	2.4	48
128	Gait alterations to effectively reduce hip contact forces. <i>Journal of Orthopaedic Research</i> , 2015, 33, 1094-1102.	2.4	65
129	Changes in proprioceptive weighting in women with knee osteoarthritis during quiet standing compared to healthy controls. <i>Osteoarthritis and Cartilage</i> , 2015, 23, A101.	1.3	0
130	A quantitative assessment of varus thrust during walking in women with early and established medial knee osteoarthritis.. <i>Osteoarthritis and Cartilage</i> , 2015, 23, A100.	1.3	0
131	Sensitivity of predicted muscle forces during gait to anatomical variability in musculotendon geometry. <i>Journal of Biomechanics</i> , 2015, 48, 2116-2123.	2.1	33
132	Control of propulsion and body lift during the first two stances of sprint running: a simulation study. <i>Journal of Sports Sciences</i> , 2015, 33, 2016-2024.	2.0	37
133	Muscle contributions to centre of mass acceleration during turning gait in typically developing children: A simulation study. <i>Journal of Biomechanics</i> , 2015, 48, 4238-4245.	2.1	17
134	Computed tomography-based joint locations affect calculation of joint moments during gait when compared to scaling approaches. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 1238-1251.	1.7	19
135	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.	2.2	66
136	Influence of altered gait patterns on the hip joint contact forces. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014, 17, 352-359.	1.7	23
137	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.	2.2	22
138	Hip contact force in presence of aberrant bone geometry during normal and pathological gait. <i>Journal of Orthopaedic Research</i> , 2014, 32, 1406-1415.	2.4	47
139	Arm swing in human walking: What is their drive?. <i>Gait and Posture</i> , 2014, 40, 321-326.	1.6	51
140	Forefoot deformation during stance: Does the forefoot collapse during loading?. <i>Gait and Posture</i> , 2014, 39, 40-47.	1.6	19
141	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.	2.1	27
142	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.	2.8	32
143	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.	4.8	32
144	The contribution of knee extensor and plantarflexor hyperexcitability to gait impairments after stroke: A simulation study. <i>Gait and Posture</i> , 2014, 39, S32.	1.6	0

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145	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.	3.1	37
146	Neuromuscular strategies during gait in women with early and established knee osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2014, 22, S82-S83.	1.3	0
147	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.	1.6	34
148	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.	1.3	0
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