Jaap H Van DieÃ«n

List of Publications by Year
in descending order

582 papers	25,333 citations	7069 78 h-index	16127 124 g-index
637 all docs	637 docs citations	637 times ranked	14858 citing authors

#	Article	IF	Citations
1	Construct validity and reliability of the modified gait efficacy scale for older adults. Disability and Rehabilitation, 2022, 44, 2464-2469.	0.9	5
2	Patientsâ€™ perceived walking abilities, daily-life gait behavior and gait quality before and 3Âmonths after total knee arthroplasty. Archives of Orthopaedic and Trauma Surgery, 2022, 142, 1189-1196.	1.3	12
3	Can HDEMG-Based Low Back Muscle Fatigue Estimates Be Used in Exoskeleton Control During Prolonged Trunk Bending? A Pilot Study. Biosystems and Biorobotics, 2022, , 183-187.	0.2	0
4	Biomechanical Evaluation of the Effect of Three Trunk Support Exoskeletons on Spine Loading During Lifting. Biosystems and Biorobotics, 2022, , 177-181.	0.2	0
5	Limitation of Ankle Mobility Challenges Gait Stability While Walking on Lateral Inclines. Biosystems and Biorobotics, 2022, , 621-625.	0.2	0
6	Associations of low-back pain and pain-related cognitions with lumbar movement patterns during repetitive seated reaching. Gait and Posture, 2022, 91, 216-222.	0.6	9
7	The underlying mechanisms of improved balance after one and ten sessions of balance training in older adults. Human Movement Science, 2022, 81, 102910.	0.6	6
8	Strong relationship of muscle force and fall efficacy, but not of gait kinematics, with number of falls in the year after Total Hip Arthroplasty for osteoarthritis: An exploratory study. Clinical Biomechanics, 2022, 92, 105551.	0.5	1
9	Stride Lengths during Maximal Linear Sprint Acceleration Obtained with Foot-Mounted Inertial Measurement Units. Sensors, 2022, 22, 376.	2.1	4
10	Reliability of IMU-Based Gait Assessment in Clinical Stroke Rehabilitation. Sensors, 2022, 22, 908.	2.1	13
11	Effects of age and surface instability on the control of the center of mass. Human Movement Science, 2022, 82, 102930.	0.6	7
12	Can foot placement during gait be trained? Adaptations in stability control when ankle moments are constrained. Journal of Biomechanics, 2022, 134, 110990.	0.9	13
13	The Effects of Intermittent Trunk Flexion With and Without Support on Sitting Balance in Young Adults. Frontiers in Human Neuroscience, 2022, 16, 868153.	1.0	0
14	Concurrent validity of an easy-to-use inertial measurement unit-system to evaluate sagittal plane segment kinematics during overground sprinting at different speeds. Sports Biomechanics, 2022, , 1-14.	0.8	5
15	The effect of constraining mediolateral ankle moments and foot placement on the use of the counter-rotation mechanism during walking. Journal of Biomechanics, 2022, 136, 111073.	0.9	8
16	The effect of cryotherapy on postural stabilization assessed by standardized horizontal perturbations of a movable platform. Gait and Posture, 2022, 94, 32-38.	0.6	2
17	Consensus for experimental design in electromyography (CEDE) project: High-density surface electromyography matrix. Journal of Electromyography and Kinesiology, 2022, 64, 102656.	0.7	22
18	Optimizing Calibration Procedure to Train a Regression-Based Prediction Model of Actively Generated Lumbar Muscle Moments for Exoskeleton Control. Sensors, 2022, 22, 87.	2.1	0

#	Article	IF	Citations
19	Effects of mattress support on sleeping position and low-back pain. Sleep Science and Practice, 2022, 6, .	0.6	0
20	Chronic non-specific low back pain and ankle proprioceptive acuity in community-dwelling older adults. Neuroscience Letters, 2022, 786, 136806.	1.0	9
21	Low back muscle action potential conduction velocity estimated using high-density electromyography. Journal of Electromyography and Kinesiology, 2022, 66, 102679.	0.7	4
22	Passive Trunk Exoskeleton Acceptability and Effects on Self-efficacy in Employees with Low-Back Pain: A Mixed Method Approach. Journal of Occupational Rehabilitation, 2021, 31, 129-141.	1.2	36
23	The validation of new phase-dependent gait stability measures: a modelling approach. Royal Society Open Science, 2021, 8, 201122.	1.1	2
24	Development of a Balance Recovery Performance Measure for Gait Perturbation Training Based on the Center of Pressure. Frontiers in Sports and Active Living, 2021, 3, 617430.	0.9	5
25	Determinants of pain and activity limitations in foot osteoarthritis: An exploratory cross-sectional study in the Amsterdam-foot cohort. Osteoarthritis and Cartilage Open, 2021, 3, 100134.	0.9	0
26	The biomechanics of running and running styles: a synthesis. Sports Biomechanics, 2021, , 1-39.	0.8	50
27	Estimation of Metabolic Energy Expenditure during Short Walking Bouts. International Journal of Sports Medicine, 2021, 42, 1098-1104.	0.8	2
28	Reliability of a novel dynamic test of postural stability in high-level soccer players. Heliyon, 2021, 7, e06647.	1.4	4
29	A novel passive neck orthosis for patients with degenerative muscle diseases: Development & evaluation. Journal of Electromyography and Kinesiology, 2021, 57, 102515.	0.7	9
30	Reliability of measures to characterize lumbar movement patterns, in repeated seated reaching, in a mixed group of participants with and without low-back pain: A test-retest, within- and between session. Journal of Biomechanics, 2021, 121, 110435.	0.9	7
31	The short- and long-term temporal relation between falls and concern about falling in older adults without a recent history of falling. PLoS ONE, 2021, 16, e0253374.	1.1	7
32	Stabilization demands of walking modulate the vestibular contributions to gait. Scientific Reports, 2021, 11, 13736.	1.6	16
33	Consensus for experimental design in electromyography (CEDE) project: Terminology matrix. Journal of Electromyography and Kinesiology, 2021, 59, 102565.	0.7	29
34	Left/right discrimination is not impaired in people with unilateral chronic Achilles tendinopathy. Musculoskeletal Science and Practice, 2021, 54, 102388.	0.6	2
35	The relationship between relative aerobic load, energy cost, and speed of walking in individuals post-stroke. Gait and Posture, 2021, 89, 193-199.	0.6	6
36	Coordination of Axial Trunk Rotations During Gait in Low Back Pain. A Narrative Review. Journal of Human Kinetics, 2021, 76, 35-50.	0.7	10

#	Article	IF	Citations
37	Ankle muscles drive mediolateral center of pressure control to ensure stable steady state gait. Scientific Reports, 2021, 11, 21481.	1.6	26
38	Age-Matched Z-Scores for Longitudinal Monitoring of Center of Pressure Speed in Single-Leg Stance Performance in Elite Male Youth Soccer Players. Journal of Strength and Conditioning Research, 2020, 34, 495-505.	1.0	2
39	Revealing the optimal thresholds for movement performance: A systematic review and meta-analysis to benchmark pathological walking behaviour. Neuroscience and Biobehavioral Reviews, 2020, 108, 24-33.	2.9	24
40	Individual optimal step frequency during outdoor running. European Journal of Sport Science, 2020, 20, 182-190.	1.4	11
41	Perspectives of End Users on the Potential Use of Trunk Exoskeletons for People With Low-Back Pain: A Focus Group Study. Human Factors, 2020, 62, 365-376.	2.1	24
42	Effects of a passive back exoskeleton on the mechanical loading of the low-back during symmetric lifting. Journal of Biomechanics, 2020, 102, 109486.	0.9	60
43	Real-time feedback to reduce low-back load in lifting and lowering. Journal of Biomechanics, 2020, 102, 109513.	0.9	4
44	Effects of age and sex on trunk motor control. Journal of Biomechanics, 2020, 102, 109607.	0.9	2
45	SPEXOR passive spinal exoskeleton decreases metabolic cost during symmetric repetitive lifting. European Journal of Applied Physiology, 2020, 120, 401-412.	1.2	72
46	The effect of foot type, body length and mass on postural stability. Gait and Posture, 2020, 81, 241-246.	0.6	7
47	The influence of postural threat on strategy selection in a stepping-down paradigm. Scientific Reports, 2020, 10, 10815.	1.6	3
48	Using deep learning to track 3D kinematics. Gait and Posture, 2020, 81, 369-370.	0.6	1
49	Fear of movement is not associated with trunk movement variability during gait in patients with low back pain. Spine Journal, 2020, 20, 1986-1994.	0.6	5
50	Between-day reliability of IMU-derived spine control metrics in patients with low back pain. Journal of Biomechanics, 2020, 113, 110080.	0.9	6
51	Perturbation-based gait training to improve daily life gait stability in older adults at risk of falling: protocol for the REACT randomized controlled trial. BMC Geriatrics, 2020, 20, 167.	1.1	16
52	Virtual Reality Balance Games Provide Little Muscular Challenge to Prevent Muscle Weakness in Healthy Older Adults. Games for Health Journal, 2020, 9, 227-236.	1.1	14
53	Consensus for experimental design in electromyography (CEDE) project: Amplitude normalization matrix. Journal of Electromyography and Kinesiology, 2020, 53, 102438.	0.7	170
54	Transfer and retention effects of gait training with anterior-posterior perturbations to postural responses after medio-lateral gait perturbations in older adults. Clinical Biomechanics, 2020, 75, 104988.	0.5	22

#	Article	IF	Citations
55	Testing an Exoskeleton That Helps Workers With Low-Back Pain: Less Discomfort With the Passive SPEXOR Trunk Device. IEEE Robotics and Automation Magazine, 2020, 27, 66-76.	2.2	23
56	Age-Related Differences in Muscle Synergy Organization during Step Ascent at Different Heights and Directions. Applied Sciences (Switzerland), 2020, 10, 1987.	1.3	17
57	Hypogravity reduces trunk admittance and lumbar muscle activation in response to external perturbations. Journal of Applied Physiology, 2020, 128, 1044-1055.	1.2	10
58	Does a novel exergame challenge balance and activate muscles more than existing off-the-shelf exergames?. Journal of NeuroEngineering and Rehabilitation, 2020, 17, 6.	2.4	26
59	The effect of anteroposterior perturbations on the control of the center of mass during treadmill walking. Journal of Biomechanics, 2020, 103, 109660.	0.9	25
60	Selecting the appropriate input variables in a regression approach to estimate actively generated muscle moments around L5/S1 for exoskeleton control. Journal of Biomechanics, 2020, 102, 109650.	0.9	6
61	Validation of a wearable system for 3D ambulatory L5/S1 moment assessment during manual lifting using instrumented shoes and an inertial sensor suit. Journal of Biomechanics, 2020, 102, 109671.	0.9	22
62	Modulation of soleus muscle H-reflexes and ankle muscle co-contraction with surface compliance during unipedal balancing in young and older adults. Experimental Brain Research, 2020, 238, 1371-1383.	0.7	15
63	Identification of intrinsic and reflexive contributions to trunk stabilization in patients with low back pain: a caseâ€“control study. European Spine Journal, 2020, 29, 1900-1908.	1.0	8
64	Reliability of recurrence quantification analysis of postural sway data. A comparison of two methods to determine recurrence thresholds. Journal of Biomechanics, 2020, 107, 109793.	0.9	9
65	Biomechanical evaluation of a new passive back support exoskeleton. Journal of Biomechanics, 2020, 105, 109795.	0.9	71
66	Angular Velocity, Moment, and Power Analysis of the Ankle, Knee, and Hip Joints in the Goalkeeper's Diving Save in Football. Frontiers in Sports and Active Living, 2020, 2, 13.	0.9	9
67	Head orientation and gait stability in young adults, dancers and older adults. Gait and Posture, 2020, 80, 68-73.	0.6	9
68	Evaluation of an acceleration-based assistive strategy to control a back-support exoskeleton for manual material handling. Wearable Technologies, 2020, 1, .	1.6	14
69	Active foot placement control ensures stable gait: Effect of constraints on foot placement and ankle moments. PLoS ONE, 2020, 15, e0242215.	1.1	38
70	Is standing sway an accurate measure of fall risk and predictor of future falls in older adults?. Brazilian Journal of Motor Behavior, 2020, 14, 1-3.	0.3	1
71	Is standing sway an accurate measure of fall risk and predictor of future falls in older adults?. Brazilian Journal of Motor Behavior, 2020, 14, 1-3.	0.3	5
72	Lessons Learned. Journal of Applied Biomechanics, 2020, 36, 369.	0.3	1

#	Article	IF	Citations
73	Title is missing!. , 2020, 15, e0242215.		0
74	Title is missing!. , 2020, 15, e0242215.		0
75	Title is missing!. , 2020, 15, e0242215.		0
76	Title is missing!. , 2020, 15, e0242215.		0
77	Analysis of Motor Control in Patients With Low Back Pain: A Key to Personalized Care?. Journal of Orthopaedic and Sports Physical Therapy, 2019, 49, 380-388.	1.7	76
78	Motor Control Changes in Low Back Pain: Divergence in Presentations and Mechanisms. Journal of Orthopaedic and Sports Physical Therapy, 2019, 49, 370-379.	1.7	163
79	Kinematic and kinetic analysis of the goalkeeperâ€™s diving save in football. Journal of Sports Sciences, 2019, 37, 313-321.	1.0	16
80	The assessment of single-leg drop jump landing performance by means of ground reaction forces: A methodological study. Gait and Posture, 2019, 73, 80-85.	0.6	13
81	Consensus for experimental design in electromyography (CEDE) project: Electrode selection matrix. Journal of Electromyography and Kinesiology, 2019, 48, 128-144.	0.7	95
82	Effects of Ankle Muscle Fatigue and Visual Behavior on Postural Sway in Young Adults. Frontiers in Physiology, 2019, 10, 643.	1.3	19
83	Quality of Daily-Life Gait: Novel Outcome for Trials that Focus on Balance, Mobility, and Falls. Sensors, 2019, 19, 4388.	2.1	14
84	Neck postural stabilization, motion comfort, and impact simulation. , 2019, , 243-260.		4
85	Gait quality assessed by trunk accelerometry after total knee arthroplasty and its association with patient related outcome measures. Clinical Biomechanics, 2019, 70, 192-196.	0.5	15
86	Stride and Step Length Obtained with Inertial Measurement Units during Maximal Sprint Acceleration. Sports, 2019, 7, 202.	0.7	20
87	Axial pelvis range of motion affects thorax-pelvis timing during gait. Journal of Biomechanics, 2019, 95, 109308.	0.9	7
88	A comparison of methods to quantify control of the spine. Journal of Biomechanics, 2019, 96, 109344.	0.9	6
89	Does a Perturbation-Based Gait Intervention Enhance Gait Stability in Fall-Prone Stroke Survivors? A Pilot Study. Journal of Applied Biomechanics, 2019, 35, 173-181.	0.3	8
90	Consistency and testâ€“retest reliability of stepping tests designed to measure self-perceived and actual physical stepping ability in older adults. Aging Clinical and Experimental Research, 2019, 31, 1765-1773.	1.4	2

#	Article	IF	Citations
91	The human sensorimotor cortex fosters muscle synergies through cortico-synergy coherence. NeuroImage, 2019, 199, 30-37.	2.1	53
92	Dual vs. Single Tasking During Circular Walking: What Better Reflects Progression in Parkinson's Disease?. Frontiers in Neurology, 2019, 10, 372.	1.1	6
93	Time to Reflect on the Role of Motor Control in Low Back Pain. Journal of Orthopaedic and Sports Physical Therapy, 2019, 49, 367-369.	1.7	23
94	Impaired local dynamic stability during treadmill walking predicts future falls in patients with multiple sclerosis: A prospective cohort study. Clinical Biomechanics, 2019, 67, 197-201.	0.5	20
95	The effect of control strategies for an active back-support exoskeleton on spine loading and kinematics during lifting. Journal of Biomechanics, 2019, 91, 14-22.	0.9	65
96	Inter-individual differences in stride frequencies during running obtained from wearable data. Journal of Sports Sciences, 2019, 37, 1996-2006.	1.0	15
97	Assessing age-related balance deterioration: Visual or mechanical tasks?. Clinical Biomechanics, 2019, 65, 116-122.	0.5	0
98	Are Stability and Instability Relevant Concepts for Back Pain?. Journal of Orthopaedic and Sports Physical Therapy, 2019, 49, 415-424.	1.7	35
99	Potential Markers of Progression in Idiopathic Parkinsonâ€™s Disease Derived From Assessment of Circular Gait With a Single Body-Fixed-Sensor: A 5 Year Longitudinal Study. Frontiers in Human Neuroscience, 2019, 13, 59.	1.0	27
100	Differences in Maximum Voluntary Excitation Between Isometric and Dynamic Contractions are Age-Dependent. Journal of Applied Biomechanics, 2019, 35, 196-201.	0.3	3
101	Donâ€™t forget the trunk in Duchenne muscular dystrophy patients: more muscle weakness and compensation than expected. Journal of NeuroEngineering and Rehabilitation, 2019, 16, 44.	2.4	16
102	The effect of a passive trunk exoskeleton on metabolic costs during lifting and walking. Ergonomics, 2019, 62, 903-916.	1.1	85
103	Axial Thorax-Pelvis Coordination During Gait is not Predictive of Apparent Trunk Stiffness. Scientific Reports, 2019, 9, 1066.	1.6	7
104	Validity and Reliability of a Novel Integrative Motor Performance Testing Course for Seniors: The â€œAgility Challenge for the Elderly (ACE)â€. Frontiers in Physiology, 2019, 10, 44.	1.3	6
105	Bench stepping with incremental heights improves muscle volume, strength and functional performance in older women. Experimental Gerontology, 2019, 120, 6-14.	1.2	10
106	The Effect of Preparatory Posture on Goalkeeper's Diving Save Performance in Football. Frontiers in Sports and Active Living, 2019, 1, 15.	0.9	10
107	September 2019 Letter to the Editor-in-Chief. Journal of Orthopaedic and Sports Physical Therapy, 2019, 49, 679-681.	1.7	1
108	Patients With Spinal Muscular Atrophy Use High Percentages of Trunk Muscle Capacity to Perform Seated Tasks. American Journal of Physical Medicine and Rehabilitation, 2019, 98, 1110-1117.	0.7	7

#	Article	IF	Citations
109	Does misjudgement in a stepping down paradigm predict falls in an older population?. Royal Society Open Science, 2019, 6, 190786.	1.1	1
110	Low back pain: Moving toward mechanism-based management. Clinical Biomechanics, 2019, 61, 190-191.	0.5	10
111	Effects of a passive exoskeleton on the mechanical loading of the low back in static holding tasks. Journal of Biomechanics, 2019, 83, 97-103.	0.9	135
112	Effects of an Inclination-Controlled Active Spinal Exoskeleton on Spinal Compression Forces. Biosystems and Biorobotics, 2019, , 505-509.	0.2	1
113	The effect of external lateral stabilization on the use of foot placement to control mediolateral stability in walking and running. PeerJ, 2019, 7, e7939.	0.9	40
114	The Effects of Chair Inclination, Arm Support and Touch-Typing on Shoulder and Arm Muscle Activity in Computer Work. Advances in Intelligent Systems and Computing, 2019, , 303-304.	0.5	0
115	Predicting Forearm Physical Exposures During Computer Work Using Self-Reports, Software-Recorded Computer Usage Patterns, and Anthropometric and Workstation Measurements. Annals of Work Exposures and Health, 2018, 62, 124-137.	0.6	8
116	Self-perceived gait stability modulates the effect of daily life gait quality on prospective falls in older adults. Gait and Posture, 2018, 62, 475-479.	0.6	12
117	â€œMovement of the sacroiliac joint during the active straight leg raise test in patients with long-lasting severe sacroiliac joint painâ€â€”A letter to the editor. Clinical Biomechanics, 2018, 52, 100-101.	0.5	1
118	An adaptive, real-time cadence algorithm for unconstrained sensor placement. Medical Engineering and Physics, 2018, 52, 49-58.	0.8	6
119	Coupled motions in human and porcine thoracic and lumbar spines. Journal of Biomechanics, 2018, 70, 51-58.	0.9	12
120	Weight bearing exercise can elicit similar peak muscle activation as mediumâ€“high intensity resistance exercise in elderly women. European Journal of Applied Physiology, 2018, 118, 531-541.	1.2	12
121	Effects of intervertebral disc lesion and multifidus muscle resection on the structure of the lumbar intervertebral discs and paraspinal musculature of the rat. Journal of Biomechanics, 2018, 70, 228-234.	0.9	9
122	Development and evaluation of a passive trunk support system for Duchenne muscular dystrophy patients. Journal of NeuroEngineering and Rehabilitation, 2018, 15, 22.	2.4	14
123	Continuous ambulatory hand force monitoring during manual materials handling using instrumented force shoes and an inertial motion capture suit. Journal of Biomechanics, 2018, 70, 235-241.	0.9	25
124	Estimating the L5S1 flexion/extension moment in symmetrical lifting using a simplified ambulatory measurement system. Journal of Biomechanics, 2018, 70, 242-248.	0.9	22
125	Virtual reality balance training for elderly: Similar skiing games elicit different challenges in balance training. Gait and Posture, 2018, 59, 111-116.	0.6	42
126	Factors Contributing to Chronic Ankle Instability: A Systematic Review and Meta-Analysis of Systematic Reviews. Sports Medicine, 2018, 48, 189-205.	3.1	117

#	Article	IF	Citations
127	Evidence of splinting in low back pain? A systematic review of perturbation studies. European Spine Journal, 2018, 27, 40-59.	1.0	23
128	Sensory contributions to stabilization of trunk posture in the sagittal plane. Journal of Biomechanics, 2018, 70, 219-227.	0.9	16
129	Do Older Adults Select Appropriate Motor Strategies in a Stepping-Down Paradigm?. Frontiers in Physiology, 2018, 9, 1419.	1.3	6
130	Performance on a Single-Legged Drop-Jump Landing Test Is Related to Increased Risk of Lateral Ankle Sprains Among Male Elite Soccer Players: A 3-Year Prospective Cohort Study. American Journal of Sports Medicine, 2018, 46, 3454-3462.	1.9	25
131	Understanding Motivations and Player Experiences of Older Adults in Virtual Reality Training. Games for Health Journal, 2018, 7, 369-376.	1.1	31
132	Developing a toolkit for the assessment and monitoring of musculoskeletal ageing. Age and Ageing, 2018, 47, iv1-iv19.	0.7	25
133	Where to Step? Contributions of Stance Leg Muscle Spindle Afference to Planning of Mediolateral Foot Placement for Balance Control in Young and Old Adults. Frontiers in Physiology, 2018, 9, 1134.	1.3	48
134	The effect of a passive trunk exoskeleton on functional performance in healthy individuals. Applied Ergonomics, 2018, 72, 94-106.	1.7	144
135	Center of Pressure Motion After Calf Vibration Is More Random in Fallers Than Non-fallers: Prospective Study of Older Individuals. Frontiers in Physiology, 2018, 9, 273.	1.3	18
136	Predicting the influence of hip and lumbar flexibility on lifting motions using optimal control. Journal of Biomechanics, 2018, 78, 118-125.	0.9	9
137	Alterations in trunk bending stiffness following changes in stability and equilibrium demands of a load holding task. Journal of Biomechanics, 2018, 77, 163-170.	0.9	6
138	Older Adults with Weaker Muscle Strength Stand up from a Sitting Position with More Dynamic Trunk Use. Sensors, 2018, 18, 1235.	2.1	33
139	Improved Prediction of Falls in Community-Dwelling Older Adults Through Phase-Dependent Entropy of Daily-Life Walking. Frontiers in Aging Neuroscience, 2018, 10, 44.	1.7	30
140	The effect of walking speed on quality of gait in older adults. Gait and Posture, 2018, 65, 112-116.	0.6	77
141	Trunk, head and pelvis interactions in healthy children when performing seated daily arm tasks. Experimental Brain Research, 2018, 236, 2023-2036.	0.7	15
142	The association between age and accelerometry-derived types of habitual daily activity: an observational study over the adult life span in the Netherlands. BMC Public Health, 2018, 18, 824.	1.2	17
143	Myofascial Loads Can Occur without Fascicle Length Changes. Integrative and Comparative Biology, 2018, 58, 251-260.	0.9	8
144	Control of human gait stability through foot placement. Journal of the Royal Society Interface, 2018, 15, 20170816.	1.5	254

#	Article	IF	Citations
145	Is There a Relationship Between Lumbar Proprioception and Low Back Pain? A Systematic Review With Meta-Analysis. Archives of Physical Medicine and Rehabilitation, 2017, 98, 120-136.e2.	0.5	117
146	Altered mechanical interaction between rat plantar flexors due to changes in intermuscular connectivity. Scandinavian Journal of Medicine and Science in Sports, 2017, 27, 177-187.	1.3	11
147	Kinematic analysis of the drag flick in field hockey. Sports Biomechanics, 2017, 16, 45-57.	0.8	19
148	Responses to gait perturbations in stroke survivors who prospectively experienced falls or no falls. Journal of Biomechanics, 2017, 55, 56-63.	0.9	22
149	Longitudinal and transversal displacements between triceps surae muscles during locomotion of the rat. Journal of Experimental Biology, 2017, 220, 537-550.	0.8	11
150	Balance Control in Older Adults. , 2017, , 237-262.		9
151	Evidence of adaptations of locomotor neural drive in response to enhanced intermuscular connectivity between the triceps surae muscles of the rat. Journal of Neurophysiology, 2017, 118, 1677-1689.	0.9	7
152	Dynamic and static knee alignment at baseline predict structural abnormalities on MRI associated with medial compartment knee osteoarthritis after 2 years. Gait and Posture, 2017, 57, 46-51.	0.6	12
153	Virtual obstacle crossing: Reliability and differences in stroke survivors who prospectively experienced falls or no falls. Gait and Posture, 2017, 58, 533-538.	0.6	6
154	Two-year vs. Four-year Structural Progressors of Knee Osteoarthritis Suggest Distinct Clinical Phenotypes. Osteoarthritis and Cartilage, 2017, 25, S335.	0.6	0
155	Baseline Characteristics of Clinical, Functional and Structural Progressors over 2 years in Women with Medial Knee Osteoarthritis. Osteoarthritis and Cartilage, 2017, 25, S342.	0.6	0
156	Is the Assessment of 5 Meters of Gait with a Single Body-Fixed-Sensor Enough to Recognize Idiopathic Parkinsonâ€™s Disease-Associated Gait?. Annals of Biomedical Engineering, 2017, 45, 1266-1278.	1.3	23
157	Low-Back Pain Patients Learn to Adapt Motor Behavior With Adverse Secondary Consequences. Exercise and Sport Sciences Reviews, 2017, 45, 223-229.	1.6	107
158	Predicting falls among patients with multiple sclerosis: Comparison of patient-reported outcomes and performance-based measures of lower extremity functions. Multiple Sclerosis and Related Disorders, 2017, 17, 69-74.	0.9	51
159	Effects of age on force steadiness: A literature review and meta -analysis. Ageing Research Reviews, 2017, 35, 312-321.	5.0	39
160	The degree of misjudgment between perceived and actual gait ability in older adults. Gait and Posture, 2017, 51, 275-280.	0.6	18
161	Authorsâ€™ Reply to Wang: â€œOn Magnetic Resonance Imaging of Intervertebral Disc Ageingâ€. Sports Medicine, 2017, 47, 189-191.	3.1	0
162	SPEXOR: Spinal Exoskeletal Robot for Low Back Pain Prevention and Vocational Reintegration. Biosystems and Biorobotics, 2017, , 311-315.	0.2	16

#	Article	IF	Citations
163	Ground reaction forces during walking with different load and slope combinations in rats. Journal of Experimental Orthopaedics, 2017, 4, 28.	0.8	2
164	Nonlinear relationship between isokinetic muscle strength and activity limitations in patients with knee osteoarthritis: Results of the Amsterdam-Osteoarthritis cohort. Journal of Rehabilitation Medicine, 2017, 49, 598-605.	0.8	9
165	Fractional Stability of Trunk Acceleration Dynamics of Daily-Life Walking: Toward a Unified Concept of Gait Stability. Frontiers in Physiology, 2017, 8, 516.	1.3	13
166	Algorithm for Turning Detection and Analysis Validated under Home-Like Conditions in Patients with Parkinsonâ€™s Disease and Older Adults using a 6 Degree-of-Freedom Inertial Measurement Unit at the Lower Back. Frontiers in Neurology, 2017, 8, 135.	1.1	26
167	Validation of a Step Detection Algorithm during Straight Walking and Turning in Patients with Parkinsonâ€™s Disease and Older Adults Using an Inertial Measurement Unit at the Lower Back. Frontiers in Neurology, 2017, 8, 457.	1.1	79
168	Do clinical assessments, steady-state or daily-life gait characteristics predict falls in ambulatory chronic stroke survivors?. Journal of Rehabilitation Medicine, 2017, 49, 402-409.	0.8	34
169	Changes in gait characteristics of women with early and established medial knee osteoarthritis: Results from a 2-years longitudinal study. Clinical Biomechanics, 2017, 50, 32-39.	0.5	15
170	Optimal stride frequencies in running at different speeds. PLoS ONE, 2017, 12, e0184273.	1.1	27
171	On the validity and consistency of misjudgment of stepping ability in young and older adults. PLoS ONE, 2017, 12, e0190088.	1.1	11
172	A research framework for the development and implementation of interventions preventing work-related musculoskeletal disorders. Scandinavian Journal of Work, Environment and Health, 2017, 43, 526-539.	1.7	65
173	Balanscontrole bij veroudering. , 2017, , 69-101.		0
174	On Gait Analysis Estimation Errors Using Force Sensors on a Smart Rollator. Sensors, 2016, 16, 1896.	2.1	15
175	Intra-Rater, Inter-Rater and Test-Retest Reliability of an Instrumented Timed Up and Go (iTUG) Test in Patients with Parkinsonâ€™s Disease. PLoS ONE, 2016, 11, e0151881.	1.1	72
176	Trunk Stability, Trunk Strength and Sport Performance Level in Judo. PLoS ONE, 2016, 11, e0156267.	1.1	47
177	Mechanical Perturbations of the Walking Surface Reveal Unaltered Axial Trunk Stiffness in Chronic Low Back Pain Patients. PLoS ONE, 2016, 11, e0157253.	1.1	12
178	Daily-Life Gait Quality as Predictor of Falls in Older People: A 1-Year Prospective Cohort Study. PLoS ONE, 2016, 11, e0158623.	1.1	126
179	Synergistic Co-activation Increases the Extent of Mechanical Interaction between Rat Ankle Plantar-Flexors. Frontiers in Physiology, 2016, 7, 414.	1.3	14
180	Two-stage muscle activity responses in decisions about leg movement adjustments during trip recovery. Journal of Neurophysiology, 2016, 115, 143-156.	0.9	32

#	Article	IF	Citations
181	Effects of leg muscle fatigue on gait in patients with Parkinson's disease and controls with high and low levels of daily physical activity. Gait and Posture, 2016, 47, 86-91.	0.6	34
182	A lumped stiffness model of intermuscular and extramuscular myofascial pathways of force transmission. Biomechanics and Modeling in Mechanobiology, 2016, 15, 1747-1763.	1.4	19
183	Nonlinearity and thresholds in the relationship between muscle strength and activity limitations in patients with knee osteoarthritis: results of the amsterdam-osteoarthritis cohort. Osteoarthritis and Cartilage, 2016, 24, S467-S468.	0.6	0
184	Sagittal plane dynamic knee joint stiffness during gait in subjects with early and established medial knee osteoarthritis. Osteoarthritis and Cartilage, 2016, 24, S124.	0.6	1
185	Effects of constrained trunk movement on frontal plane gait kinematics. Journal of Biomechanics, 2016, 49, 3085-3089.	0.9	34
186	Can explicit visual feedback of postural sway efface the effects of sensory manipulations on mediolateral balance performance?. Journal of Neurophysiology, 2016, 115, 907-914.	0.9	25
187	Time series of ground reaction forces following a single leg drop jump landing in elite youth soccer players consist of four distinct phases. Gait and Posture, 2016, 50, 137-144.	0.6	21
188	Limited mechanical effects of intermuscular myofascial connections within the intact rat anterior crural compartment. Journal of Biomechanics, 2016, 49, 2953-2959.	0.9	12
189	Structural health monitoring (vibration) as a tool for identifying structural alterations of the lumbar spine: a twin control study. Scientific Reports, 2016, 6, 22974.	1.6	4
190	Varus thrust in women with early medial knee osteoarthritis and its relation with the external knee adduction moment. Clinical Biomechanics, 2016, 39, 109-114.	0.5	29
191	Characteristics of daily life gait in fall and non fall-prone stroke survivors and controls. Journal of NeuroEngineering and Rehabilitation, 2016, 13, 67.	2.4	32
192	Hip abductor neuromuscular capacity: A limiting factor in mediolateral balance control in older adults?. Clinical Biomechanics, 2016, 37, 27-33.	0.5	24
193	Sports-related testing protocols are required to reveal trunk stability adaptations in high-level athletes. Gait and Posture, 2016, 49, 90-96.	0.6	30
194	The validity of assessing temporal events, sub-phases and trunk kinematics of the sit-to-walk movement in older adults using a single inertial sensor. Journal of Biomechanics, 2016, 49, 1933-1937.	0.9	18
195	Fall-related gait characteristics on the treadmill and in daily life. Journal of NeuroEngineering and Rehabilitation, 2016, 13, 12.	2.4	44
196	A novel accelerometry-based algorithm for the detection of step durations over short episodes of gait in healthy elderly. Journal of NeuroEngineering and Rehabilitation, 2016, 13, 38.	2.4	33
197	Trunk stabilization during sagittal pelvic tilt: from trunk-on-pelvis to trunk-in-space due to vestibular and visual feedback. Journal of Neurophysiology, 2016, 115, 1381-1388.	0.9	9
198	The effect of the stability threshold on time to stabilization and its reliability following a single leg drop jump landing. Journal of Biomechanics, 2016, 49, 496-501.	0.9	14

#	Article	IF	Citations
199	Methods for assessment of trunk stabilization, a systematic review. Journal of Electromyography and Kinesiology, 2016, 26, 18-35.	0.7	32
200	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
201	Can Exercise Positively Influence the Intervertebral Disc?. Sports Medicine, 2016, 46, 473-485.	3.1	47
202	Phase-dependent changes in local dynamic stability during walking in elderly with and without knee osteoarthritis. Journal of Biomechanics, 2016, 49, 80-86.	0.9	17
203	Effects of narrow base gait on mediolateral balance control in young and older adults. Journal of Biomechanics, 2016, 49, 1264-1267.	0.9	73
204	Development and Validation of a Method to Measure Lumbosacral Motion Using Ultrasound Imaging. Ultrasound in Medicine and Biology, 2016, 42, 1221-1229.	0.7	9
205	The poro-elastic behaviour of the intervertebral disc: A new perspective on diurnal fluid flow. Journal of Biomechanics, 2016, 49, 857-863.	0.9	41
206	Biomechanical and neuromuscular adaptations during the landing phase of a stepping-down task in patients with early or established knee osteoarthritis. Knee, 2016, 23, 367-375.	0.8	4
207	Trunk stabilization estimated using pseudorandom force perturbations, a reliability study. Journal of Biomechanics, 2016, 49, 244-251.	0.9	6
208	Supporting the upper body with the hand on the thigh reduces back loading during lifting. Journal of Biomechanics, 2016, 49, 881-889.	0.9	31
209	Central pain processing is altered in people with Achilles tendinopathy. British Journal of Sports Medicine, 2016, 50, 1004-1007.	3.1	65
210	Estimating 3D L5/S1 moments and ground reaction forces during trunk bending using a full-body ambulatory inertial motion capture system. Journal of Biomechanics, 2016, 49, 904-912.	0.9	62
211	Measurement strategy and statistical power in studies assessing gait stability and variability in older adults. Aging Clinical and Experimental Research, 2016, 28, 257-265.	1.4	11
212	Exercise-Based Fall Prevention in the Elderly: What About Agility?. Sports Medicine, 2016, 46, 143-149.	3.1	54
213	Recovery of gait after quadriceps muscle fatigue. Gait and Posture, 2016, 43, 270-274.	0.6	19
214	Disc herniations in astronauts: What causes them, and what does it tell us about herniation on earth?. European Spine Journal, 2016, 25, 144-154.	1.0	77
215	The Instrumented Sit-to-Stand Test (iSTS) Has Greater Clinical Relevance than the Manually Recorded Sit-to-Stand Test in Older Adults. PLoS ONE, 2016, 11, e0157968.	1.1	59
216	Prolonged Intermittent Trunk Flexion Increases Trunk Muscles Reflex Gains and Trunk Stiffness. PLoS ONE, 2016, 11, e0162703.	1.1	16

#	Article	IF	Citations
217	Running Speed Can Be Predicted from Foot Contact Time during Outdoor over Ground Running. PLoS ONE, 2016, 11, e0163023.	1.1	12
218	Bias and Power in Group-Based Epidemiologic Studies of Low-Back Pain Exposure and Outcome â€“ Effects of Study Size and Exposure Measurement Efforts. Annals of Occupational Hygiene, 2015, 59, 439-54.	1.9	4
219	Effects of epimuscular myofascial force transmission on sarcomere length of passive muscles in the rat hindlimb. Physiological Reports, 2015, 3, e12608.	0.7	22
220	Assessing Physical Activity in Older Adults: Required Days of Trunk Accelerometer Measurements for Reliable Estimation. Journal of Aging and Physical Activity, 2015, 23, 9-17.	0.5	74
221	Increased knee muscle strength is associated with decreased activity limitations in established knee osteoarthritis: Two-year follow-up study in the Amsterdam osteoarthritis cohort. Journal of Rehabilitation Medicine, 2015, 47, 647-654.	0.8	23
222	Reproducibility and Validity of the Myotest for Measuring Step Frequency and Ground Contact Time in Recreational Runners. Journal of Human Kinetics, 2015, 45, 19-26.	0.7	12
223	THU0608-HPRâ€…Nonlinearity and Relevant Thresholds in the Relationship Between Muscle Strength and Activity Limitations in Patients with Knee Osteoarthritis: Results of the AMS-OA Cohort. Annals of the Rheumatic Diseases, 2015, 74, 1311.3-1312.	0.5	0
224	Stride frequency and length adjustment in post-stroke individuals: Influence on the margins of stability. Journal of Rehabilitation Medicine, 2015, 47, 126-132.	0.8	29
225	Beta activity in the premotor cortex is increased during stabilized as compared to normal walking. Frontiers in Human Neuroscience, 2015, 9, 593.	1.0	71
226	No functionally relevant mechanical effects of epimuscular myofascial connections between rat ankle plantar flexors. Journal of Experimental Biology, 2015, 218, 2935-41.	0.8	25
227	Relation between postural sway magnitude and metabolic energy cost during upright standing on a compliant surface. Journal of Applied Physiology, 2015, 119, 696-703.	1.2	26
228	Learning to balance on one leg: motor strategy and sensory weighting. Journal of Neurophysiology, 2015, 114, 2967-2982.	0.9	52
229	Effects of vision and lumbar posture on trunk neuromuscular control. Journal of Biomechanics, 2015, 48, 298-303.	0.9	15
230	Ambulatory Fall-Risk Assessment: Amount and Quality of Daily-Life Gait Predict Falls in Older Adults. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2015, 70, 608-615.	1.7	199
231	Significant mechanical interactions at physiological lengths and relative positions of rat plantar flexors. Journal of Applied Physiology, 2015, 118, 427-436.	1.2	33
232	Effect of horizontal pick and place locations on shoulder kinematics. Ergonomics, 2015, 58, 195-207.	1.1	8
233	Effects of support surface stability on feedback control of trunk posture. Experimental Brain Research, 2015, 233, 1079-1087.	0.7	21
234	Modulation of intrinsic and reflexive contributions to low-back stabilization due to vision, task instruction, and perturbation bandwidth. Experimental Brain Research, 2015, 233, 735-749.	0.7	21

#	Article	IF	Citations
235	Detailed assessment of low-back loads may not be worth the effort: AÂcomparison of two methods for exposure-outcome assessment of low-back pain. Applied Ergonomics, 2015, 51, 322-330.	1.7	1
236	Frontal plane kinematics in walking with moderate hip osteoarthritis: Stability and fall risk. Clinical Biomechanics, 2015, 30, 874-880.	0.5	21
237	Mediolateral balance and gait stability in older adults. Gait and Posture, 2015, 42, 79-84.	0.6	19
238	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
239	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
240	Effect of arm swing strategy on local dynamic stability of human gait. Gait and Posture, 2015, 41, 504-509.	0.6	66
241	Lumbar compression forces while lifting and carrying with two and four workers. Applied Ergonomics, 2015, 50, 56-61.	1.7	6
242	Effect of a kneeling chair on lumbar curvature in patients with low back pain and healthy controls: A pilot study. Annals of Physical and Rehabilitation Medicine, 2015, 58, 151-156.	1.1	19
243	Falls Associated with Muscle Strength in Patients with Knee Osteoarthritis and Self-reported Knee Instability. Journal of Rheumatology, 2015, 42, 1218-1223.	1.0	45
244	Mechanics and biology in intervertebral disc degeneration: a vicious circle. Osteoarthritis and Cartilage, 2015, 23, 1057-1070.	0.6	589
245	The Effects of Single-Level Instrumented Lumbar Laminectomy on Adjacent Spinal Biomechanics. Global Spine Journal, 2015, 5, 39-47.	1.2	13
246	Effects of hip abductor muscle fatigue on gait control and hip position sense in healthy older adults. Gait and Posture, 2015, 42, 545-549.	0.6	36
247	Effects of noxious stimulation to the back or calf muscles on gait stability. Journal of Biomechanics, 2015, 48, 4109-4115.	0.9	15
248	Trunk muscle coactivation is tuned to changes in task dynamics to improve responsiveness in a seated balance task. Journal of Electromyography and Kinesiology, 2015, 25, 765-772.	0.7	21
249	Centre of pressure or centre of mass feedback in mediolateral balance assessment. Journal of Biomechanics, 2015, 48, 539-543.	0.9	16
250	Identification of Fall Risk Predictors in Daily Life Measurements. Neurorehabilitation and Neural Repair, 2015, 29, 54-61.	1.4	115
251	Time to stabilization in single leg drop jump landings: An examination of calculation methods and assessment of differences in sample rate, filter settings and trial length on outcome values. Gait and Posture, 2015, 41, 63-69.	0.6	45
252	Postural sway and integration of proprioceptive signals in subjects with LBP. Human Movement Science, 2015, 39, 109-120.	0.6	43

#	Article	IF	Citations
253	The effect of neighboring segments on the measurement of segmental stiffness in the intact lumbar spine. Spine Journal, 2015, 15, 1302-1309.	0.6	7
254	Associations between measures of gait stability, leg strength and fear of falling. Gait and Posture, 2015, 41, 76-80.	0.6	44
255	Reproducibility of a knee and hip proprioception test in healthy older adults. Aging Clinical and Experimental Research, 2015, 27, 171-177.	1.4	25
256	Effect of acute noxious stimulation to the leg or back on muscle synergies during walking. Journal of Neurophysiology, 2015, 113, 244-254.	0.9	59
257	Physical Performance and Physical Activity in Older Adults: Associated but Separate Domains of Physical Function in Old Age. PLoS ONE, 2015, 10, e0144048.	1.1	103
258	Do Extreme Values of Daily-Life Gait Characteristics Provide More Information About Fall Risk Than Median Values?. JMIR Research Protocols, 2015, 4, e4.	0.5	46
259	The effect of the presence and characteristics of an outlying group on exposureâ€“outcome associations. Scandinavian Journal of Work, Environment and Health, 2015, 41, 65-74.	1.7	4
260	Accuracy of Estimates of Step Frequency From a Wearable Gait Monitor. Journal of Mobile Technology in Medicine, 2015, 4, 2-7.	0.5	3
261	Cycling detection with a single activity monitor. , 2015, , .		1
262	Walking and cycling in patients with asthma and COPD. , 2015, , .		0
263	Why detection of cycling is important in activity monitoring. , 2015, , .		1
264	Assessing Physical Activity in Older Adults: Required Days of Trunk Accelerometer Measurements for Reliable Estimation. Journal of Aging and Physical Activity, 2015, 23, 9-17.	0.5	8
265	A systematic review of postural control during single-leg stance in patients with untreated anterior cruciate ligament injury. Knee Surgery, Sports Traumatology, Arthroscopy, 2014, 22, 1491-504.	2.3	39
266	Three-Dimensional Ankle Moments and Nonlinear Summation of Rat Triceps Surae Muscles. PLoS ONE, 2014, 9, e111595.	1.1	25
267	Prediction of trapezius muscle activity and shoulder, head, neck, and torso postures during computer use: results of a field study. BMC Musculoskeletal Disorders, 2014, 15, 292.	0.8	9
268	Cumulative mechanical low-back load at work is a determinant of low-back pain. Occupational and Environmental Medicine, 2014, 71, 332-337.	1.3	98
269	Fast online corrections of tripping responses. Experimental Brain Research, 2014, 232, 3579-3590.	0.7	35
270	Assessing the stability of human locomotion: a review of current measures. Journal of the Royal Society Interface, 2014, 11, 20130900.	1.5	12

#	Article	IF	Citations
271	Competing Effects of Pain and Fear of Pain on Postural Control in Low Back Pain?. Spine, 2014, 39, E1518-E1523.	1.0	28
272	Effect of triceps surae and quadriceps muscle fatigue on the mechanics of landing in stepping down in ongoing gait. Ergonomics, 2014, 57, 934-942.	1.1	17
273	Effects of unilateral leg muscle fatigue on balance control in perturbed and unperturbed gait in healthy elderly. Gait and Posture, 2014, 40, 215-219.	0.6	21
274	Arm swing in human walking: What is their drive?. Gait and Posture, 2014, 40, 321-326.	0.6	50
275	Testâ€“retest reliability of muscle vibration effects on postural sway. Gait and Posture, 2014, 40, 166-171.	0.6	15
276	Interactions of touch feedback with muscle vibration and galvanic vestibular stimulation in the control of trunk posture. Gait and Posture, 2014, 39, 745-749.	0.6	13
277	Postural stability and ankle sprain history in athletes compared to uninjured controls. Clinical Biomechanics, 2014, 29, 183-188.	0.5	24
278	Response to Letter to the Editor: On â€œComparison of a laboratory grade force platform with a Nintendo Wii Balance Board on measurement of postural control in single-leg stance balance tasksâ€• by Huurnink, A., et al. [J. Biomech. 46 (2013) 1392â€“1395]: Are the conclusions stated by the authors justified?. Journal of Biomechanics, 2014, 47, 760-762.	0.9	4
279	The effect of leg preference on postural stability in healthy athletes. Journal of Biomechanics, 2014, 47, 308-312.	0.9	34
280	The effect of lifting during work on low back pain: a health impact assessment based on a meta-analysis. Occupational and Environmental Medicine, 2014, 71, 871-877.	1.3	221
281	Office workers' computer use patterns are associated with workplace stressors. Applied Ergonomics, 2014, 45, 1660-1667.	1.7	21
282	Single level lumbar laminectomy alters segmental biomechanical behavior without affecting adjacent segments. Clinical Biomechanics, 2014, 29, 912-917.	0.5	16
283	Elevated C-reactive protein is associated with lower increase in knee muscle strength in patients with knee osteoarthritis: a 2-year follow-up study in the Amsterdam Osteoarthritis (AMS-OA) cohort. Arthritis Research and Therapy, 2014, 16, R123.	1.6	24
284	Clinimetric properties of a novel feedback device for assessing gait parameters in stroke survivors. Journal of NeuroEngineering and Rehabilitation, 2014, 11, 30.	2.4	14
285	How does postural stability following a single leg drop jump landing task relate to postural stability during a single leg stance balance task?. Journal of Biomechanics, 2014, 47, 3248-3253.	0.9	31
286	Effect of bed height and use of hands on trunk angular velocity during the sit-to-stand transfer. Ergonomics, 2014, 57, 1536-1540.	1.1	5
287	Stepping Asymmetry Among Individuals With Unilateral Transtibial Limb Loss Might Be Functional in Terms of Gait Stability. Physical Therapy, 2014, 94, 1480-1488.	1.1	51
288	Toward ambulatory balance assessment: Estimating variability and stability from short bouts of gait. Gait and Posture, 2014, 39, 695-699.	0.6	42

#	Article	IF	Citations
289	Effects of experimentally increased trunk stiffness on thorax and pelvis rotations during walking. Human Movement Science, 2014, 33, 194-202.	0.6	20
290	Consistency of gait characteristics as determined from acceleration data collected at different trunk locations. Gait and Posture, 2014, 40, 187-192.	0.6	73
291	Neuromuscular strategies during gait in women with early and established knee osteoarthritis. Osteoarthritis and Cartilage, 2014, 22, S82-S83.	0.6	0
292	Pelvic step: The contribution of horizontal pelvis rotation to step length in young healthy adults walking on a treadmill. Gait and Posture, 2014, 39, 105-110.	0.6	35
293	Interactions of age and leg muscle fatigue on unobstructed walking and obstacle crossing. Gait and Posture, 2014, 39, 985-990.	0.6	45
294	A benchmark test of accuracy and precision in estimating dynamical systems characteristics from a time series. Journal of Biomechanics, 2014, 47, 470-475.	0.9	25
295	Kinematic changes during running-induced fatigue and relations with core endurance in novice runners. Journal of Science and Medicine in Sport, 2014, 17, 419-424.	0.6	79
296	Increase in heterogeneity of biceps brachii activation during isometric submaximal fatiguing contractions: a multichannel surface EMG study. Journal of Neurophysiology, 2014, 111, 984-990.	0.9	28
297	Age Effects on Mediolateral Balance Control. PLoS ONE, 2014, 9, e110757.	1.1	45
298	Cumulative Low Back Load at Work as a Risk Factor of Low Back Pain: A Prospective Cohort Study. Journal of Occupational Rehabilitation, 2013, 23, 11-18.	1.2	141
299	Redundancy or heterogeneity in the electric activity of the biceps brachii muscle? Added value of PCA-processed multi-channel EMG muscle activation estimates in a parallel-fibered muscle. Journal of Electromyography and Kinesiology, 2013, 23, 892-898.	0.7	33
300	Concurrent validity of questions on arm, shoulder and neck symptoms of the RSI QuickScan. International Archives of Occupational and Environmental Health, 2013, 86, 789-798.	1.1	3
301	The effects of workplace stressors on muscle activity in the neck-shoulder and forearm muscles during computer work: a systematic review and meta-analysis. European Journal of Applied Physiology, 2013, 113, 2897-2912.	1.2	42
302	Precision of estimates of local stability of repetitive trunk movements. European Spine Journal, 2013, 22, 2678-2685.	1.0	27
303	Torsion biomechanics of the spine following lumbar laminectomy: a human cadaver study. European Spine Journal, 2013, 22, 1785-1793.	1.0	18
304	Motor control changes and low back pain. , 2013, , 207-217.		1
305	Spine function and low back pain. , 2013, , 41-57.		4
306	Precision control of trunk movement in low back pain patients. Human Movement Science, 2013, 32, 228-239.	0.6	61

#	Article	IF	Citations
307	A systematic review and meta-analysis of dynamic tests and related force plate parameters used to evaluate neuromusculoskeletal function in foot and ankle pathology. Clinical Biomechanics, 2013, 28, 591-601.	0.5	27
308	A Systematic Review of the Relationship between Physical Activities in Sports or Daily Life and Postural Sway in Upright Stance. Sports Medicine, 2013, 43, 1171-1189.	3.1	107
309	Comparison of a laboratory grade force platform with a Nintendo Wii Balance Board on measurement of postural control in single-leg stance balance tasks. Journal of Biomechanics, 2013, 46, 1392-1395.	0.9	168
310	Which factors prognosticate rotational instability following lumbar laminectomy?. European Spine Journal, 2013, 22, 2897-2903.	1.0	6
311	Estimating fall risk with inertial sensors using gait stability measures that do not require step detection. Gait and Posture, 2013, 38, 170-174.	0.6	130
312	Center of pressure trajectories, trunk kinematics and trunk muscle activation during unstable sitting in low back pain patients. Gait and Posture, 2013, 38, 625-630.	0.6	51
313	Systematic review of the effects of fatigue on spatiotemporal gait parameters. Journal of Back and Musculoskeletal Rehabilitation, 2013, 26, 125-131.	0.4	34
314	Effects of repetitive movement on range of motion and stiffness around the neutral orientation of the human lumbar spine. Journal of Biomechanics, 2013, 46, 187-191.	0.9	13
315	Assessing gait stability: The influence of state space reconstruction on inter- and intra-day reliability of local dynamic stability during over-ground walking. Journal of Biomechanics, 2013, 46, 137-141.	0.9	147
316	Identifying intrinsic and reflexive contributions to low-back stabilization. Journal of Biomechanics, 2013, 46, 1440-1446.	0.9	44
317	Modelling creep behaviour of the human intervertebral disc. Journal of Biomechanics, 2013, 46, 2101-2103.	0.9	25
318	Walking in an Unstable Environment: Strategies Used by Transtibial Amputees to Prevent Falling During Gait. Archives of Physical Medicine and Rehabilitation, 2013, 94, 2186-2193.	0.5	69
319	Frequency domain mediolateral balance assessment using a center of pressure tracking task. Journal of Biomechanics, 2013, 46, 2831-2836.	0.9	27
320	Kinetic and kinematic characteristics of stair negotiation in patients with medial knee osteoarthritis. Osteoarthritis and Cartilage, 2013, 21, S257.	0.6	2
321	Inter-rater reliability of a video-analysis method measuring low-back load inÂaÂfield situation. Applied Ergonomics, 2013, 44, 828-834.	1.7	14
322	The effect of muscle fatigue on the last stride before stepping down a curb. Gait and Posture, 2013, 37, 542-546.	0.6	18
323	Effect of muscle fatigue and physical activity level in motor control of the gait of young adults. Gait and Posture, 2013, 38, 702-707.	0.6	47
324	Stepping strategies for regulating gait adaptability and stability. Journal of Biomechanics, 2013, 46, 905-911.	0.9	92

#	Article	IF	Citations
325	Does self-reported knee instability correlate with biomechanical or neuromuscular performance characteristics during knee joint loading in patients with knee osteoarthritis?. Osteoarthritis and Cartilage, 2013, 21, S276.	0.6	0
326	Association of postural control with muscle strength, proprioception, self-reported knee instability and activity limitations in patients with knee osteoarthritis. Journal of Rehabilitation Medicine, 2013, 45, 192-197.	0.8	48
327	Low back pain and postural sway during quiet standing with and without sensory manipulation: A systematic review. Gait and Posture, 2013, 37, 12-22.	0.6	123
328	Assessing the stability of human locomotion: a review of current measures. Journal of the Royal Society Interface, 2013, 10, 20120999.	1.5	478
329	Stepping strategies used by post-stroke individuals to maintain margins of stability during walking. Clinical Biomechanics, 2013, 28, 1041-1048.	0.5	104
330	Association of serum C-reactive protein and erythrocyte sedimentation rate with muscle strength in patients with knee osteoarthritis. Rheumatology, 2013, 52, 727-732.	0.9	22
331	The effect of overâ€commitment and reward on trapezius muscle activity and shoulder, head, neck, and torso postures during computer use in the field. American Journal of Industrial Medicine, 2013, 56, 1190-1200.	1.0	22
332	Steps to Take to Enhance Gait Stability: The Effect of Stride Frequency, Stride Length, and Walking Speed on Local Dynamic Stability and Margins of Stability. PLoS ONE, 2013, 8, e82842.	1.1	168
333	The effect of overcommitment and reward on muscle activity, posture, and forces in the arm-wrist-hand region â€“ a field study among computer workers. Scandinavian Journal of Work, Environment and Health, 2013, 39, 379-389.	1.7	21
334	Low back pain: doesn't work matter at all?. Occupational Medicine, 2012, 62, 152-153.	0.8	8
335	Validation of seat-off and seat-on in repeated sit-to-stand movements using a single-body-fixed sensor. Physiological Measurement, 2012, 33, 1855-1867.	1.2	21
336	Work-site musculoskeletal pain risk estimates by trained observers â€“ a prospective cohort study. Ergonomics, 2012, 55, 1373-1381.	1.1	7
337	Observed differences in upper extremity forces, muscle efforts, postures, velocities and accelerations across computer activities in a field study of office workers. Ergonomics, 2012, 55, 670-681.	1.1	39
338	The effects of psychosocial factors on trapezius muscle activity levels during computer use. Proceedings of the Human Factors and Ergonomics Society, 2012, 56, 1123-1127.	0.2	0
339	Lumbar Bone Mass Predicts Low Back Pain in Males. Spine, 2012, 37, 1579-1585.	1.0	8
340	Non-specific low back pain. Lancet, The, 2012, 379, 1874.	6.3	18
341	Biomechanical assessment of the effects of decompressive surgery in non-chondrodystrophic and chondrodystrophic canine multisegmented lumbar spines. European Spine Journal, 2012, 21, 1692-1699.	1.0	23
342	Letter to the Editor: â€œSensitivity of the Wolfâ€™s and Rosensteinâ€™s Algorithms to Evaluate Local Dynamic Stability from Small Gait Data Setsâ€• Annals of Biomedical Engineering, 2012, 40, 2505-2506.	1.3	10

#	Article	IF	Citations
343	The contribution of load magnitude and number of load cycles to cumulative low-back load estimations: A study based on in-vitro compression data. Clinical Biomechanics, 2012, 27, 1083-1086.	0.5	22
344	Maximum acceptable weight of lift reflects peak lumbosacral extension moments in a functional capacity evaluation test using free style, stoop and squat lifting. Ergonomics, 2012, 55, 343-349.	1.1	10
345	Submovement Organization, Pen Pressure, and Muscle Activity Are Modulated to Precision Demands in 2D Tracking. Journal of Motor Behavior, 2012, 44, 379-388.	0.5	4
346	Temporal strategy and performance during a fatiguing short-cycle repetitive task. Ergonomics, 2012, 55, 863-873.	1.1	22
347	Removing ECG contamination from EMG recordings: A comparison of ICA-based and other filtering procedures. Journal of Electromyography and Kinesiology, 2012, 22, 485-493.	0.7	101
348	Mechanical coupling between transverse plane pelvis and thorax rotations during gait is higher in people with low back pain. Journal of Biomechanics, 2012, 45, 342-347.	0.9	103
349	Validation of vibration testing for the assessment of the mechanical properties of human lumbar motion segments. Journal of Biomechanics, 2012, 45, 1753-1758.	0.9	16
350	Determinants of co-contraction during walking before and after arthroplasty for knee osteoarthritis. Clinical Biomechanics, 2012, 27, 485-494.	0.5	25
351	Trunk muscle control in response to (un)expected turns in cart pushing. Gait and Posture, 2012, 36, 133-138.	0.6	12
352	Speeding up or slowing down?: Gait adaptations to preserve gait stability in response to balance perturbations. Gait and Posture, 2012, 36, 260-264.	0.6	184
353	The effects of knee arthroplasty on walking speed: A meta-analysis. BMC Musculoskeletal Disorders, 2012, 13, 66.	0.8	24
354	Control of the lateral abdominal muscles during walking. Human Movement Science, 2012, 31, 880-896.	0.6	23
355	Local dynamic stability and variability of gait are associated with fall history in elderly subjects. Gait and Posture, 2012, 36, 527-531.	0.6	248
356	Precision control of an upright trunk posture in low back pain patients. Clinical Biomechanics, 2012, 27, 866-871.	0.5	18
357	Which factors prognosticate spinal instability following lumbar laminectomy?. European Spine Journal, 2012, 21, 2640-2648.	1.0	26
358	Understanding the Active Straight Leg Raise (ASLR): An electromyographic study in healthy subjects. Manual Therapy, 2012, 17, 531-537.	1.6	48
359	The predictive validity of the RSI QuickScan questionnaire with respect to arm, shoulder and neck symptoms in computer workers. Ergonomics, 2012, 55, 1559-1570.	1.1	4
360	Developing a framework for assessing muscle effort and postures during computer work in the field: the effect of computer activities on neck/shoulder muscle effort and postures. Work, 2012, 41, 2377-2380.	0.6	3

#	Article	IF	Citations
361	The evaluation of team lifting on physical work demands and workload in ironworkers. Work, 2012, 41, 3771-3773.	0.6	3
362	Effects of pushing height on trunk posture and trunk muscle activity when a cart suddenly starts or stops moving. Work, 2012, 41, 3189-3195.	0.6	1
363	Does team lifting increase the variability in peak lumbar compression in ironworkers?. Work, 2012, 41, 4171-4173.	0.6	10
364	Robot-assisted walking vs overground walking in stroke patients: An evaluation of muscle activity. Journal of Rehabilitation Medicine, 2012, 44, 331-337.	0.8	31
365	The impact of bone mineral density and disc degeneration on shear strength and stiffness of the lumbar spine following laminectomy. European Spine Journal, 2012, 21, 530-536.	1.0	33
366	Maximum Lyapunov exponents as predictors of global gait stability: A modelling approach. Medical Engineering and Physics, 2012, 34, 428-436.	0.8	90
367	Effects of fatigue on trunk stability in elite gymnasts. European Journal of Applied Physiology, 2012, 112, 1307-1313.	1.2	29
368	Ankle proprioception is not targeted by exercises on an unstable surface. European Journal of Applied Physiology, 2012, 112, 1577-1585.	1.2	58
369	Kinematic measures for assessing gait stability in elderly individuals: a systematic review. Journal of the Royal Society Interface, 2011, 8, 1682-1698.	1.5	310
370	The effect of work pace on workload, motor variability and fatigue during simulated light assembly work. Ergonomics, 2011, 54, 154-168.	1.1	95
371	The effects of creep and recovery on the in vitro biomechanical characteristics of human multi-level thoracolumbar spinal segments. Clinical Biomechanics, 2011, 26, 438-444.	0.5	16
372	Sensitivity of trunk variability and stability measures to balance impairments induced by galvanic vestibular stimulation during gait. Gait and Posture, 2011, 33, 656-660.	0.6	77
373	The validity of stability measures: A modelling approach. Journal of Biomechanics, 2011, 44, 2401-2408.	0.9	33
374	Estimation of low back moments from video analysis: A validation study. Journal of Biomechanics, 2011, 44, 2369-2375.	0.9	22
375	A comparison of a maximum exertion method and a model-based, sub-maximum exertion method for normalizing trunk EMG. Journal of Electromyography and Kinesiology, 2011, 21, 767-773.	0.7	22
376	Low back pain: we cannot afford ignoring work. Spine Journal, 2011, 11, 164.	0.6	23
377	Electromyographic activity of trunk muscles during exercises with flexible and non-flexible poles. Journal of Back and Musculoskeletal Rehabilitation, 2011, 24, 209-214.	0.4	21
378	Quantifying intervertebral disc mechanics: a new definition of the neutral zone. BMC Musculoskeletal Disorders, 2011, 12, 38.	0.8	66

#	Article	IF	Citations
379	Is the psoas a hip flexor in the active straight leg raise?. European Spine Journal, 2011, 20, 759-765.	1.0	37
380	Gait adaptations in low back pain patients with lumbar disc herniation: trunk coordination and arm swing. European Spine Journal, 2011, 20, 491-499.	1.0	62
381	Sensitivity of Local Dynamic Stability of Over-Ground Walking to Balance Impairment Due to Galvanic Vestibular Stimulation. Annals of Biomedical Engineering, 2011, 39, 1563-1569.	1.3	41
382	Control of trunk motion following sudden stop perturbations during cart pushing. Journal of Biomechanics, 2011, 44, 121-127.	0.9	9
383	The feasibility of modal testing for measurement of the dynamic characteristics of goat vertebral motion segments. Journal of Biomechanics, 2011, 44, 1478-1483.	0.9	11
384	Effect of initial horizontal object position on peak L5/S1 moments in manual lifting is dependent on task type and familiarity with alternative lifting strategies. Ergonomics, 2011, 54, 72-81.	1.1	56
385	Handle height and expectation of cart movement affect the control of trunk motion at movement onset in cart pushing. Ergonomics, 2011, 54, 971-982.	1.1	15
386	In Vitro Biomechanical Characteristics of the Spine. Spine, 2010, 35, E35-E42.	1.0	88
387	Low Back Pain History and Postural Sway in Unstable Sitting. Spine, 2010, 35, 812-817.	1.0	46
388	Armed against falls: the contribution of arm movements to balance recovery after tripping. Experimental Brain Research, 2010, 201, 689-699.	0.7	130
389	How is precision regulated in maintaining trunk posture?. Experimental Brain Research, 2010, 203, 39-49.	0.7	20
390	Estimating Dynamic Gait Stability Using Data from Non-aligned Inertial Sensors. Annals of Biomedical Engineering, 2010, 38, 2588-2593.	1.3	53
391	Anterior shear strength of the porcine lumbar spine after laminectomy and partial facetectomy. European Spine Journal, 2010, 19, 2130-2136.	1.0	7
392	The cost-effectiveness of the RSI QuickScan intervention programme for computer workers: Results of an economic evaluation alongside a randomised controlled trial. BMC Musculoskeletal Disorders, 2010, 11, 259.	0.8	13
393	Effectiveness of a questionnaire based intervention programme on the prevalence of arm, shoulder and neck symptoms, risk factors and sick leave in computer workers: A cluster randomised controlled trial in an occupational setting. BMC Musculoskeletal Disorders, 2010, 11, 99.	0.8	27
394	Muscle activity during the active straight leg raise (ASLR), and the effects of a pelvic belt on the ASLR and on treadmill walking. Journal of Biomechanics, 2010, 43, 532-539.	0.9	84
395	Bottom-up estimation of joint moments during manual lifting using orientation sensors instead of position sensors. Journal of Biomechanics, 2010, 43, 1432-1436.	0.9	39
396	Oblique abdominal muscle activity in response to external perturbations when pushing a cart. Journal of Biomechanics, 2010, 43, 1364-1372.	0.9	17

#	Article	IF	Citations
397	Determination of joint moments with instrumented force shoes in a variety of tasks. Journal of Biomechanics, 2010, 43, 2848-2854.	0.9	39
398	Position sense acuity of the upper extremity and tracking performance in subjects with non-specific neck and upper extremity pain and healthy controls. Journal of Rehabilitation Medicine, 2010, 42, 876-883.	0.8	35
399	How to lift a box that is too large to fit between the knees. Ergonomics, 2010, 53, 1228-1238.	1.1	57
400	Validity of estimates of spinal compression forces obtained from worksite measurements. Ergonomics, 2010, 53, 792-800.	1.1	15
401	Methodological aspects of SEMG recordings for force estimation â€“ A tutorial and review. Journal of Electromyography and Kinesiology, 2010, 20, 375-387.	0.7	275
402	Postural sway parameters in seated balancing; their reliability and relationship with balancing performance. Gait and Posture, 2010, 31, 42-46.	0.6	70
403	The effects of stride length and stride frequency on trunk coordination in human walking. Gait and Posture, 2010, 31, 444-449.	0.6	57
404	Stability and variability of knee kinematics during gait in knee osteoarthritis before and after replacement surgery. Clinical Biomechanics, 2010, 25, 230-236.	0.5	82
405	The effects of arm swing on human gait stability. Journal of Experimental Biology, 2010, 213, 3945-3952.	0.8	200
406	Manifestations of shoulder fatigue in prolonged activities involving low-force contractions. Ergonomics, 2009, 52, 428-437.	1.1	54
407	Internal consistency, testâ€“retest reliability and concurrent validity of a questionnaire on work-related exposure related to arm, shoulder and neck symptoms in computer workers. Ergonomics, 2009, 52, 1087-1103.	1.1	14
408	Static and dynamic postural loadings during computer work in females: Sitting on an office chair versus sitting on an exercise ball. Applied Ergonomics, 2009, 40, 199-205.	1.7	100
409	Optimal inertial sensor location for ambulatory measurement of trunk inclination. Journal of Biomechanics, 2009, 42, 2406-2409.	0.9	64
410	Hamstrings co-activation in ACL-deficient subjects during isometric whole-leg extensions. Knee Surgery, Sports Traumatology, Arthroscopy, 2009, 17, 946-955.	2.3	9
411	Low-back loading in lifting two loads beside the body compared to lifting one load in front of the body. Journal of Biomechanics, 2009, 42, 35-41.	0.9	42
412	Is slow walking more stable?. Journal of Biomechanics, 2009, 42, 1506-1512.	0.9	212
413	Statistical precision and sensitivity of measures of dynamic gait stability. Journal of Neuroscience Methods, 2009, 178, 327-333.	1.3	196
414	The effect of a resistance-training program on muscle strength, physical workload, muscle fatigue and musculoskeletal discomfort: An experiment. Applied Ergonomics, 2009, 40, 396-403.	1.7	18

#	Article	IF	Citations
415	Car driving with and without a movable back support: Effect on transmission of vibration through the trunk and on its consequences for muscle activation and spinal shrinkage. Ergonomics, 2009, 52, 830-839.	1.1	13
416	Effects of conflicting constraints and age on strategy choice in stepping down during gait. Gait and Posture, 2009, 29, 343-345.	0.6	17
417	Influence of gait velocity on gastrocnemius muscle fascicle behaviour during stair negotiation. Journal of Electromyography and Kinesiology, 2009, 19, 304-313.	0.7	14
418	Low-level activity of the trunk extensor muscles causes electromyographic manifestations of fatigue in absence of decreased oxygenation. Journal of Electromyography and Kinesiology, 2009, 19, 398-406.	0.7	81
419	Heterogeneity of muscle activation in relation to force direction: A multi-channel surface electromyography study on the triceps surae muscle. Journal of Electromyography and Kinesiology, 2009, 19, 882-895.	0.7	91
420	Electromyographical manifestations of muscle fatigue during different levels of simulated light manual assembly work. Journal of Electromyography and Kinesiology, 2009, 19, e246-e256.	0.7	34
421	Working height, block mass and one- vs. two-handed block handling: the contribution to low back and shoulder loading during masonry work. Ergonomics, 2009, 52, 1104-1118.	1.1	48
422	Biomechanical Characteristics of Different Regions of the Human Spine. Spine, 2009, 34, 2858-2864.	1.0	62
423	Work-Related Low Back Pain. , 2009, , .		3
424	Gait in Pregnancy-related Pelvic girdle Pain: amplitudes, timing, and coordination of horizontal trunk rotations. European Spine Journal, 2008, 17, 1160-1169.	1.0	68
425	Identification of elderly fallers by muscle strength measures. European Journal of Applied Physiology, 2008, 102, 585-592.	1.2	361
426	Influence of step-height and body mass on gastrocnemius muscle fascicle behavior during stair ascent. Journal of Biomechanics, 2008, 41, 937-944.	0.9	11
427	Contribution of verftebral bodies, endplates, and intervertebral discs to the compression creep of spinal motion segments. Journal of Biomechanics, 2008, 41, 1260-1268.	0.9	38
428	Mechanics of toe and heel landing in stepping down in ongoing gait. Journal of Biomechanics, 2008, 41, 2417-2421.	0.9	36
429	Grip force control in patients with neck and upper extremity pain and healthy controls. Clinical Neurophysiology, 2008, 119, 1840-1848.	0.7	14
430	Fatigue effects on tracking performance and muscle activity. Journal of Electromyography and Kinesiology, 2008, 18, 410-419.	0.7	46
431	Muscular load characterization during isometric shoulder abductions with varying force. Journal of Electromyography and Kinesiology, 2008, 18, 695-703.	0.7	5
432	Falls in older people. Journal of Electromyography and Kinesiology, 2008, 18, 169-171.	0.7	18

#	Article	IF	Citations
433	Tripping without falling; lower limb strength, a limitation for balance recovery and a target for training in the elderly. Journal of Electromyography and Kinesiology, 2008, 18, 188-196.	0.7	167
434	Proprioception of the Shoulder After Stroke. Archives of Physical Medicine and Rehabilitation, 2008, 89, 333-338.	0.5	50
435	Coordination of leg swing, thorax rotations, and pelvis rotations during gait: The organisation of total body angular momentum. Gait and Posture, 2008, 27, 455-462.	0.6	158
436	Smaller external notebook mice have different effects on posture and muscle activity. Clinical Biomechanics, 2008, 23, 727-734.	0.5	23
437	Effect of lifting height and load mass on low back loading. Ergonomics, 2008, 51, 1053-1063.	1.1	75
438	Lower-limb biomechanics during stair descent: influence of step-height and body mass. Journal of Experimental Biology, 2008, 211, 1368-1375.	0.8	36
439	Effect of ship motion on spinal loading during manual lifting. Ergonomics, 2008, 51, 1426-1440.	1.1	22
440	Development of fatigue and discomfort in the upper trapezius muscle during light manual work. Ergonomics, 2007, 50, 161-177.	1.1	72
441	Gastrocnemius muscle fascicle behavior during stair negotiation in humans. Journal of Applied Physiology, 2007, 102, 1618-1623.	1.2	47
442	Regional Changes in Spine Posture at Lift Onset With Changes in Lift Distance and Lift Style. Spine, 2007, 32, 1599-1604.	1.0	19
443	Effects of Dorsal Versus Ventral Shear Loads on the Rotational Stability of the Thoracic Spine. Spine, 2007, 32, 2545-2550.	1.0	68
444	The influence of artificially increased trunk stiffness on the balance recovery after a trip. Gait and Posture, 2007, 26, 272-278.	0.6	13
445	Trunk muscle activation and associated lumbar spine joint shear forces under different levels of external forward force applied to the trunk. Journal of Electromyography and Kinesiology, 2007, 17, 14-24.	0.7	35
446	The effects of ergonomic interventions on low back moments are attenuated by changes in lifting behaviour. Ergonomics, 2007, 50, 1377-1391.	1.1	36
447	Thoracic Kyphosis Affects Spinal Loads and Trunk Muscle Force. Physical Therapy, 2007, 87, 595-607.	1.1	164
448	EFFECT OF A LIFTING BELT ON SPINE COMPRESSION DURING LIFTING. Journal of Biomechanics, 2007, 40, S32.	0.9	0
449	Effects of EMG processing on biomechanical models of muscle joint systems: Sensitivity of trunk muscle moments, spinal forces, and stability. Journal of Biomechanics, 2007, 40, 900-909.	0.9	60
450	Intervertebral disc recovery after dynamic or static loading in vitro: Is there a role for the endplate?. Journal of Biomechanics, 2007, 40, 2230-2235.	0.9	55

#	Article	IF	Citations
451	The contribution of the wrist, elbow and shoulder joints to single-finger tapping. Journal of Biomechanics, 2007, 40, 3013-3022.	0.9	32
452	Balance control in stepping down expected and unexpected level changes. Journal of Biomechanics, 2007, 40, 3641-3649.	0.9	49
453	Independent Component Analysis of High-Density Electromyography in Muscle Force Estimation. IEEE Transactions on Biomedical Engineering, 2007, 54, 751-754.	2.5	40
454	Fatigue-induced changes of impedance and performance in target tracking. Experimental Brain Research, 2007, 181, 99-108.	0.7	53
455	Cart pushing: The effects of magnitude and direction of the exerted push force, and of trunk inclination on low back loading. International Journal of Industrial Ergonomics, 2007, 37, 832-844.	1.5	24
456	Primary spinal segment stability with a stand-alone cage: In vitro evaluation of a successful goat model. Monthly Notices of the Royal Astronomical Society: Letters, 2006, 77, 454-461.	1.2	27
457	The effect of joystick handle size and gain at two levels of required precision on performance and physical load on crane operators. Ergonomics, 2006, 49, 1021-1035.	1.1	23
458	Pathophysiology of upper extremity muscle disorders. Journal of Electromyography and Kinesiology, 2006, 16, 1-16.	0.7	263
459	EMG modulation in anticipation of a possible trip during walking in young and older adults. Journal of Electromyography and Kinesiology, 2006, 16, 137-143.	0.7	28
460	Postural control of the trunk during unstable sitting in Parkinson's disease. Parkinsonism and Related Disorders, 2006, 12, 492-498.	1.1	61
461	Impedance Modulation and Feedback Corrections in Tracking Targets of Variable Size and Frequency. Journal of Neurophysiology, 2006, 96, 2750-2759.	0.9	55
462	Fatigue Failure in Shear Loading of Porcine Lumbar Spine Segments. Spine, 2006, 31, E494-E498.	1.0	23
463	Effect of a Stiff Lifting Belt on Spine Compression During Lifting. Spine, 2006, 31, E833-E839.	1.0	20
464	Changes in joint stability with muscle contraction measured from transmission of mechanical vibration. Journal of Biomechanics, 2006, 39, 2850-2856.	0.9	12
465	Identification of high-risk fallers by force capacity measures in the elderly. Journal of Biomechanics, 2006, 39, S87.	0.9	3
466	The effect of osteoporotic vertebral fracture on predicted spinal loads in vivo. European Spine Journal, 2006, 15, 1785-1795.	1.0	84
467	Impedance is modulated to meet accuracy demands during goal-directed arm movements. Experimental Brain Research, 2006, 172, 129-138.	0.7	81
468	Improving EMG-Based Muscle Force Estimation by Using a High-Density EMG Grid and Principal Component Analysis. IEEE Transactions on Biomedical Engineering, 2006, 53, 712-719.	2.5	139

#	Article	IF	Citations
469	Physical Ergonomics. , 2006, , 762-781.		0
470	The effects of shoulder load and pinch force on electromyographic activity and blood flow in the forearm during a pinch task. Ergonomics, 2006, 49, 1627-1638.	1.1	6
471	Can low back loading during lifting be reduced by placing one leg beside the object to be lifted?. Physical Therapy, 2006, 86, 1091-105.	1.1	11
472	Flow-Related Mechanics of the Intervertebral Disc: The Validity of an In Vitro Model. Spine, 2005, 30, E534-E539.	1.0	38
473	Workload of window cleaners using ladders differing in rung separation. Applied Ergonomics, 2005, 36, 275-282.	1.7	19
474	Orientation of tendons in vivo with active and passive knee muscles. Journal of Biomechanics, 2005, 38, 1780-1788.	0.9	34
475	Age-related intrinsic limitations in preventing a trip and regaining balance after a trip. Safety Science, 2005, 43, 437-453.	2.6	87
476	Effect of job rotation on need for recovery, musculoskeletal complaints, and sick leave due to musculoskeletal complaints: A prospective study among refuse collectors. American Journal of Industrial Medicine, 2005, 47, 394-402.	1.0	60
477	Control of support limb muscles in recovery after tripping in young and older subjects. Experimental Brain Research, 2005, 160, 326-333.	0.7	126
478	Out-of-plane trunk movements and trunk muscle activity after a trip during walking. Experimental Brain Research, 2005, 165, 407-412.	0.7	36
479	How early reactions in the support limb contribute to balance recovery after tripping. Journal of Biomechanics, 2005, 38, 627-634.	0.9	159
480	Can co-activation reduce kinematic variability? A simulation study. Biological Cybernetics, 2005, 93, 373-381.	0.6	89
481	Factors underlying the perturbation resistance of the trunk in the first part of a lifting movement. Biological Cybernetics, 2005, 93, 54-62.	0.6	17
482	Scaling of lifting forces in relation to object size in whole body lifting. Ergonomics, 2005, 48, 1020-1030.	1.1	7
483	Effects of antagonistic co-contraction on differences between electromyography based and optimization based estimates of spinal forces. Ergonomics, 2005, 48, 411-426.	1.1	100
484	Towards optimal multi-channel EMG electrode configurations in muscle force estimation: a high density EMG study. Journal of Electromyography and Kinesiology, 2005, 15, 1-11.	0.7	102
485	Prediction of handgrip forces using surface EMG of forearm muscles. Journal of Electromyography and Kinesiology, 2005, 15, 358-366.	0.7	165
486	Co-contraction during static and dynamic knee extensions in ACL deficient subjects. Journal of Electromyography and Kinesiology, 2005, 15, 349-357.	0.7	13

#	Article	IF	Citations
487	The role of dorsal shear forces in the pathogenesis of adolescent idiopathic scoliosis â€“ A hypothesis. Medical Hypotheses, 2005, 65, 501-508.	0.8	103
488	Push-off reactions in recovery after tripping discriminate young subjects, older non-fallers and older fallers. Gait and Posture, 2005, 21, 388-394.	0.6	251
489	Effect of Job Rotation on Work Demands, Workload, and Recovery of Refuse Truck Drivers and Collectors. Human Factors, 2004, 46, 437-448.	2.1	36
490	Mechanical loading of the low back and shoulders during pushing and pulling activities. Ergonomics, 2004, 47, 1-18.	1.1	108
491	Pregnancy-related pelvic girdle pain (PPP), I: Terminology, clinical presentation, and prevalence. European Spine Journal, 2004, 13, 575-589.	1.0	473
492	Is the trunk movement more perturbed after an asymmetric than after a symmetric perturbation during lifting?. Journal of Biomechanics, 2004, 37, 1071-1077.	0.9	2
493	Lifting over an obstacle: effects of one-handed lifting and hand support on trunk kinematics and low back loading. Journal of Biomechanics, 2004, 37, 249-255.	0.9	39
494	Contribution of the support limb in control of angular momentum after tripping. Journal of Biomechanics, 2004, 37, 1811-1818.	0.9	166
495	Effects of precision demands and mental pressure on muscle activation and hand forces in computer mouse tasks. Ergonomics, 2004, 47, 202-217.	1.1	114
496	Foot positioning instruction, initial vertical load position and lifting technique: effects on low back loading. Ergonomics, 2004, 47, 1365-1385.	1.1	96
497	Associations between serum markers of collagen metabolism and spinal shrinkage. Clinical Biomechanics, 2004, 19, 209-212.	0.5	7
498	Gait coordination in pregnancy: transverse pelvic and thoracic rotations and their relative phase. Clinical Biomechanics, 2004, 19, 480-488.	0.5	82
499	Are hamstrings activated to counteract shear forces during isometric knee extension efforts in healthy subjects?. Journal of Electromyography and Kinesiology, 2004, 14, 307-315.	0.7	36
500	Evidence for a role of antagonistic cocontraction in controlling trunk stiffness during lifting. Journal of Biomechanics, 2003, 36, 1829-1836.	0.9	103
501	Effect of design of two-wheeled containers on mechanical loading. International Journal of Industrial Ergonomics, 2003, 31, 73-86.	1.5	16
502	The effect of ship accelerations on three-dimensional low back loading during lifting and pulling activities. International Journal of Industrial Ergonomics, 2003, 32, 51-63.	1.5	15
503	Sitting comfort and discomfort and the relationships with objective measures. Ergonomics, 2003, 46, 985-997.	1.1	473
504	The effects of precision demands during a low intensity pinching task on muscle activation and load sharing of the fingers. Journal of Electromyography and Kinesiology, 2003, 13, 149-157.	0.7	25

#	Article	IF	Citations
505	Muscle function and dysfunction in the spine. Journal of Electromyography and Kinesiology, 2003, 13, 303-304.	0.7	33
506	Trunk muscle activation in low-back pain patients, an analysis of the literature. Journal of Electromyography and Kinesiology, 2003, 13, 333-351.	0.7	511
507	Effect of a redesigned two-wheeled container for refuse collecting on mechanical loading of low back and shoulders. Ergonomics, 2003, 46, 543-560.	1.1	26
508	Trunk Muscle Recruitment Patterns in Patients With Low Back Pain Enhance the Stability of the Lumbar Spine. Spine, 2003, 28, 834-841.	1.0	307
509	Title is missing!. Spine, 2003, 28, 764-770.	1.0	1
510	Reduced Neural Drive in Bilateral Exertions: A Performance-Limiting Factor?. Medicine and Science in Sports and Exercise, 2003, 35, 111-118.	0.2	70
511	Title is missing!. Spine, 2003, 28, 834-841.	1.0	25
512	Effects of Unexpected Lateral Mass Placement on Trunk Loading in Lifting. Spine, 2003, 28, 764-770.	1.0	7
513	Trunk muscle recruitment patterns in patients with low back pain enhance the stability of the lumbar spine. Spine, 2003, 28, 834-41.	1.0	110
514	Pelvis-Thorax Coordination in the Transverse Plane During Walking in Persons With Nonspecific Low Back Pain. Spine, 2002, 27, E92-E99.	1.0	181
515	The inertia tensor versus static moment and mass in perceiving length and heaviness of hand-wielded rods.. Journal of Experimental Psychology: Human Perception and Performance, 2002, 28, 180-191.	0.7	53
516	Joint coordination during whole-body lifting in women with low back pain after pregnancy. Archives of Physical Medicine and Rehabilitation, 2002, 83, 1279-1289.	0.5	27
517	Gait in patients with pregnancy-related pain in the pelvis: an emphasis on the coordination of transverse pelvic and thoracic rotations. Clinical Biomechanics, 2002, 17, 678-686.	0.5	43
518	Measuring functional abilities of patients with knee problems: rationale and construction of the DynaPort knee test. Knee Surgery, Sports Traumatology, Arthroscopy, 2002, 10, 204-212.	2.3	27
519	Precision of estimates of mean and peak spinal loads in lifting. Journal of Biomechanics, 2002, 35, 979-982.	0.9	25
520	Effect of the number of two-wheeled containers at a gathering point on the energetic workload and work efficiency in refuse collecting. Applied Ergonomics, 2002, 33, 571-577.	1.7	4
521	Letters. Spine, 2002, 27, 330-331.	1.0	0
522	Reporting net moments about the lumbar spine. Clinical Biomechanics, 2001, 16, 348-349.	0.5	4

#	Article	IF	Citations
523	An EMG technique for measuring spinal loading during asymmetric lifting. Clinical Biomechanics, 2001, 16, S17-S24.	0.5	23
524	Stress distribution changes in bovine vertebrae just below the endplate after sustained loading. Clinical Biomechanics, 2001, 16, S135-S142.	0.5	29
525	Changes in walking pattern caused by the possibility of a tripping reaction. Gait and Posture, 2001, 14, 11-18.	0.6	118
526	Lumbar loading during lifting: a comparative study of three measurement techniques. Journal of Electromyography and Kinesiology, 2001, 11, 337-345.	0.7	65
527	Within-Subject Variability in Low Back Load in a Repetitively Performed, Mildly Constrained Lifting Task. Spine, 2001, 26, 1799-1804.	1.0	45
528	In Vitro Torsion-Induced Stress Distribution Changes in Porcine Intervertebral Discs. Spine, 2001, 26, 2582-2586.	1.0	43
529	The effect of passive vertebral rotation on pressure in the nucleus pulposus. Journal of Biomechanics, 2001, 34, 405-408.	0.9	27
530	Underestimation of object mass in lifting does not increase the load on the low back. Journal of Biomechanics, 2001, 34, 1447-1453.	0.9	16
531	The effect of timing of a perturbation on the execution of a lifting movement. Human Movement Science, 2001, 20, 243-255.	0.6	8
532	Effects of dynamic office chairs on trunk kinematics, trunk extensor EMG and spinal shrinkage. Ergonomics, 2001, 44, 739-750.	1.1	176
533	Monitoring water content in deforming intervertebral disc tissue by finite element analysis of MRI data. Magnetic Resonance in Medicine, 2000, 44, 650-654.	1.9	31
534	A Review of Biomechanical Studies on Stoop and Squat Lifting. Proceedings of the Human Factors and Ergonomics Society, 2000, 44, 643-646.	0.2	6
535	Back Compressive and Shear Forces during Cart Pushing and Pulling. Proceedings of the Human Factors and Ergonomics Society, 2000, 44, 647-650.	0.2	2
536	Effect of the Number of Two-Wheeled Containers at a Gathering Point on Energetic Workload and Work Efficiency. Proceedings of the Human Factors and Ergonomics Society, 2000, 44, 283-283.	0.2	0
537	Effect of Center of Mass and Handle Location of Two-Wheeled Refuse Containers on Mechanical Loading. Proceedings of the Human Factors and Ergonomics Society, 2000, 44, 639-642.	0.2	1
538	The Importance of Antagonistic Cocontraction of Trunk Muscles for Spinal Loads during Lifting and Pulling Tasks: Implications for Modeling Approaches. Proceedings of the Human Factors and Ergonomics Society, 2000, 44, 617-619.	0.2	2
539	2D Analysis of 3D Lifting: How Far can we Go?. Proceedings of the Human Factors and Ergonomics Society, 2000, 44, 601-604.	0.2	1
540	Lifting an unexpectedly heavy object: the effects on low-back loading and balance loss. Clinical Biomechanics, 2000, 15, 469-477.	0.5	49

#	Article	IF	Citations
541	Trunk muscle activation and low back loading in lifting in the absence of load knowledge. Ergonomics, 2000, 43, 333-344.	1.1	29
542	Sensitivity of single-equivalent trunk extensor muscle models to anatomical and functional assumptions. Journal of Biomechanics, 1999, 32, 195-198.	0.9	45
543	Total trunk muscle force and spinal compression are lower in asymmetric moments as compared to pure extension moments. Journal of Biomechanics, 1999, 32, 681-687.	0.9	36
544	Abdominal muscles contribute in a minor way to peak spinal compression in lifting. Journal of Biomechanics, 1999, 32, 655-662.	0.9	45
545	Directionality of anticipatory activation of trunk muscles in a lifting task depends on load knowledge. Experimental Brain Research, 1999, 128, 397-404.	0.7	21
546	Fractures of the lumbar vertebral endplate in the etiology of low back pain: a hypothesis on the causative role of spinal compression in aspecific low back pain. Medical Hypotheses, 1999, 53, 246-252.	0.8	87
547	Estimating net lumbar sagittal plane moments from EMG data. The validity of calibration procedures. Journal of Electromyography and Kinesiology, 1999, 9, 309-315.	0.7	19
548	Stoop or squat: a review of biomechanical studies on lifting technique. Clinical Biomechanics, 1999, 14, 685-696.	0.5	209
549	Dynamic Forces Acting on the Lumbar Spine During Manual Handling. Spine, 1999, 24, 698-703.	1.0	29
550	Asymmetric low back loading in asymmetric lifting movements is not prevented by pelvic twist. Journal of Biomechanics, 1998, 31, 527-534.	0.9	53
551	Scaling anticipatory postural adjustments dependent on confidence of load estimation in a bi-manual whole-body lifting task. Experimental Brain Research, 1998, 120, 85-94.	0.7	55
552	Finite Element Aided Tracking of Signal Intensity Changes in Deforming Intervertebral Disc Tissue. Magnetic Resonance Imaging, 1998, 16, 77-82.	1.0	2
553	Extrapolation of time series of EMG power spectrum parameters in isometric endurance tests of trunk extensor muscles. Journal of Electromyography and Kinesiology, 1998, 8, 35-44.	0.7	33
554	When is a lifting movement too asymmetric to identify lowback loading by 2-D analysis?. Ergonomics, 1998, 41, 1453-1461.	1.1	29
555	Effects of Repetitive Lifting on Kinematics: Inadequate Anticipatory Control or Adaptive Changes?. Journal of Motor Behavior, 1998, 30, 20-32.	0.5	65
556	Evaluation of work-rest schedules with respect to the effects of postural workload in standing work. Ergonomics, 1998, 41, 1832-1844.	1.1	51
557	Evaluation of the Probability of Spinal Damage Caused by Sustained Cyclic Compression Loading. Human Factors, 1997, 39, 469-480.	2.1	19
558	Differences in low back load between kneeling and seated working at ground level. Applied Ergonomics, 1997, 28, 355-363.	1.7	21

#	Article	IF	Citations
559	Are recruitment patterns of the trunk musculature compatible with a synergy based on the maximization of endurance?. Journal of Biomechanics, 1997, 30, 1095-1100.	0.9	72
560	Asymmetry of Erector Spinae Muscle Activity in Twisted Postures and Consistency of Muscle Activation Patterns Across Subjects. Spine, 1996, 21, 2651-2661.	1.0	31
561	The influence of torque and velocity on erector spinae muscle fatigue and its relationship to changes of electromyogram spectrum density. European Journal of Applied Physiology and Occupational Physiology, 1996, 72, 310-315.	1.2	24
562	Reproducibility of isometric trunk extension torque, trunk extensor endurance, and related electromyographic parameters in the context of their clinical applicability. Journal of Orthopaedic Research, 1996, 14, 139-143.	1.2	48
563	Segment inertial parameter evaluation in two anthropometric models by application of a dynamic linked segment model. Journal of Biomechanics, 1996, 29, 693-704.	0.9	86
564	Weight and frequency effect on spinal loading in a bricklaying task. Journal of Biomechanics, 1996, 29, 1425-1433.	0.9	33
565	Fatigue-Related Changes in the Coordination of Lifting and Their Effect on Low Back Load. Journal of Motor Behavior, 1996, 28, 304-314.	0.5	31
566	Application of the Maximum Energy Criterion to Describe the Strength of the Motion Segment Under Axial Compression. Spine, 1995, 20, 518-525.	1.0	4
567	Flexion relaxation during lifting: Implications for torque production by muscle activity and tissue strain at the lumbo-sacral joint. Journal of Biomechanics, 1995, 28, 199-210.	0.9	63
568	Controlling the Ground Reaction Force during Lifting. Journal of Motor Behavior, 1995, 27, 225-234.	0.5	38
569	The use of the relation between relative force and endurance time. Ergonomics, 1994, 37, 231-243.	1.1	42
570	Mechanical behaviour and strength of the motion segment under compression: Implications for the evaluation of physical work load. International Journal of Industrial Ergonomics, 1994, 14, 293-305.	1.5	13
571	Viscoelasticity of the individual spine. Clinical Biomechanics, 1994, 9, 61-63.	0.5	10
572	Repetitive lifting and spinal shrinkage, effects of age and lifting technique. Clinical Biomechanics, 1994, 9, 367-374.	0.5	43
573	Joint moments and muscle activity in the lower extremities and lower back in lifting and lowering tasks. Journal of Biomechanics, 1993, 26, 1067-1076.	0.9	88
574	Trunk extensor endurance and its relationship to electromyogram parameters. European Journal of Applied Physiology and Occupational Physiology, 1993, 66, 388-396.	1.2	65
575	An investigation into the relevance of the pattern of temporal activation with respect to erector spinae muscle endurance. European Journal of Applied Physiology and Occupational Physiology, 1993, 66, 70-75.	1.2	64
576	Spectral analysis of erector spinae EMG during intermittent isometric fatiguing exercise. Ergonomics, 1993, 36, 407-414.	1.1	41

#	Article	IF	Citations
577	Spinal Shrinkage as a Parameter of Functional Load. Spine, 1993, 18, 1504-1514.	1.0	32
578	Spinal Shrinkage as a Parameter of Functional Load. Spine, 1993, 18, 1504-1514.	1.0	1
579	Coordination of the leg muscles in backlift and leglift. Journal of Biomechanics, 1992, 25, 1279-1289.	0.9	76
580	The electro-mechanical delay of the erector spinae muscle: influence of rate of force development, fatigue and electrode location. European Journal of Applied Physiology and Occupational Physiology, 1991, 63, 216-222.	1.2	55
581	HEALTH RISKS CONCERNING THE LOW BACK IN AGRICULTURAL WORK. Acta Horticulturae, 1991, , 267-281.	0.1	4
582	ERGOLOC, A METHOD TO ESTABLISH LOADS ON THE LOCOMOTOR SYSTEM AT WORK. Acta Horticulturae, 1989, , 113-122.	0.1	3