

Jack P Callaghan

List of Publications by Year in descending order

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Version: 2024-02-01

278
papers

7,552
citations

50276

46
h-index

76900

74
g-index

279
all docs

279
docs citations

279
times ranked

4313
citing authors

#	ARTICLE	IF	CITATIONS
1	Cervical Spine Motion Requirements From Night Vision Goggles May Play a Greater Role in Chronic Neck Pain than Helmet Mass Properties. <i>Human Factors</i> , 2024, 66, 363-376.	3.5	2
2	Defining the lumbar and trunk-thigh neutral zone from the passive stiffness curve: application to hybrid sit-stand postures and chair design. <i>Ergonomics</i> , 2023, 66, 338-349.	2.1	2
3	The Influence of Simulated Low Speed Vehicle Impacts and Posture on Passive Intervertebral Mechanics. <i>Spine</i> , 2022, 47, E362-E369.	2.0	1
4	Level of exoskeleton support influences shoulder elevation, external rotation and forearm pronation during simulated work tasks in females. <i>Applied Ergonomics</i> , 2022, 98, 103591.	3.1	10
5	Anti-fatigue mats can reduce low back discomfort in transient pain developers. <i>Applied Ergonomics</i> , 2022, 100, 103661.	3.1	3
6	Strain Response in the Facet Joint Capsule During Physiological Joint Rotation and Translation Following a Simulated Impact Exposure: An In Vitro Porcine Model. <i>Journal of Biomechanical Engineering</i> , 2022, 144, .	1.3	1
7	Reaction Forces and Flexion-Extension Moments Imposed on Functional Spinal Units With Constrained and Unconstrained In Vitro Testing Systems. <i>Journal of Biomechanical Engineering</i> , 2022, 144, .	1.3	5
8	Characterizing the Mechanical and Viscoelastic Response of the Porcine Facet Joint Capsule Ligament in Response to a Simulated Impact. <i>Journal of Biomechanical Engineering</i> , 2022, 144, .	1.3	0
9	Are rotational passive stiffness and translational passive stiffness correlated? A porcine in vitro study. <i>Clinical Biomechanics</i> , 2022, 94, 105610.	1.2	0
10	Does sitting on a stability ball increase fall risk during ergonomic reaching tasks?. <i>Applied Ergonomics</i> , 2022, 102, 103721.	3.1	2
11	Effects of weighing phase duration on vertical force-time analyses and repeatability. <i>Sports Biomechanics</i> , 2022, , 1-11.	1.6	1
12	Characterizing Lumbar Spine Kinematics and Kinetics During Simulated Low-Speed Rear Impact Collisions. <i>Journal of Applied Biomechanics</i> , 2022, 38, 155-163.	0.8	1
13	Posture and Helmet Configuration Effects on Joint Reaction Loads in the Middle Cervical Spine. <i>Aerospace Medicine and Human Performance</i> , 2022, 93, 458-466.	0.4	2
14	Mechanically induced histochemical and structural damage in the annulus fibrosus and cartilaginous endplate: a multi-colour immunofluorescence analysis. <i>Cell and Tissue Research</i> , 2022, 390, 59-70.	2.9	4
15	Partitioning the total seatback reaction force amongst the lumbar spine motion segments during simulated rear-impact collisions. <i>International Journal of Occupational Safety and Ergonomics</i> , 2021, 27, 613-619.	1.9	4
16	Measurement of Sit-Stand Desk Usage by Desk-Mounted Sensors. <i>Ergonomics in Design</i> , 2021, 29, 4-10.	0.7	0
17	Analysis of invoked slips while wearing flip-flops in wet and dry conditions: Does alternative footwear alter slip kinematics?. <i>Applied Ergonomics</i> , 2021, 92, 103318.	3.1	3
18	Ergonomics training coupled with new Sit-Stand workstation implementation influences usage. <i>Ergonomics</i> , 2021, 64, 582-592.	2.1	2

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19	A one-dimensional collagen-based biomechanical model of passive soft tissue with viscoelasticity and failure. <i>Journal of Theoretical Biology</i> , 2021, 509, 110488.	1.7	5
20	Night Vision Goggle and Counterweight Use Affect Neck Muscle Activity During Reciprocal Scanning. <i>Aerospace Medicine and Human Performance</i> , 2021, 92, 172-181.	0.4	3
21	The rate of tendon failure in a collagen fibre recruitment-based model. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 115, 104273.	3.1	5
22	Interrelated hypoalgesia, creep, and muscle fatigue following a repetitive trunk flexion exposure. <i>Journal of Electromyography and Kinesiology</i> , 2021, 57, 102531.	1.7	0
23	A novel least-squares method to characterize in-vivo joint functional passive regional stiffness zones. <i>Human Movement Science</i> , 2021, 76, 102765.	1.4	2
24	An Appropriate Criterion Reveals that Low Pass Filtering Can Improve the Estimation of Counter-movement Jump Height from Force Plate Data. <i>Measurement in Physical Education and Exercise Science</i> , 2021, 25, 344-352.	1.8	4
25	Model-Aided Design of a Rear-Impact Collision Testing System for In Vivo Investigations. <i>Journal of Biomechanical Engineering</i> , 2021, 143, .	1.3	4
26	Reconstructing an accelerometer-based pelvis segment for three-dimensional kinematic analyses during laboratory simulated tasks with obstructed line-of-sight. <i>Journal of Biomechanics</i> , 2021, 123, 110512.	2.1	4
27	Exploring the influence of impact severity and posture on vertebral joint mechanics in an in-vitro porcine model. <i>Journal of Biomechanics</i> , 2021, 122, 110479.	2.1	1
28	Exposure to Sustained Flexion Impacts Lumbar Extensor Spinae Muscle Fiber Orientation. <i>Journal of Applied Biomechanics</i> , 2021, 37, 248-253.	0.8	2
29	Quantifying supraspinatus tendon responses to exposures emulative of human physiological levels in an animal model. <i>Journal of Biomechanics</i> , 2021, 122, 110476.	2.1	0
30	Biomechanical comparison of a C1 posterior arch clamp with C1 lateral mass screws in constructs for C1-C2 fusion. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2021, 235, 1463-1470.	1.8	0
31	Predicting Cervical Spine Compression and Shear in Helicopter Helmeted Conditions Using Artificial Neural Networks. <i>IJSE Transactions on Occupational Ergonomics and Human Factors</i> , 2021, 9, 154-166.	0.8	2
32	The relationship between external thoracopelvic angle and lumbar segmental axial twist angle using an ultrasound imaging technique. <i>Human Movement Science</i> , 2021, 78, 102824.	1.4	1
33	Higher body mass index and body fat percentage correlate to lower joint and functional strength in working age adults. <i>Applied Ergonomics</i> , 2021, 95, 103453.	3.1	2
34	Moving Toward Individual-Specific Automotive Seat Design: How Individual Characteristics and Time Alter the Selected Lumbar Support Prominence. <i>Human Factors</i> , 2021, , 001872082110427.	3.5	2
35	An Electromyographically Driven Cervical Spine Model in OpenSim. <i>Journal of Applied Biomechanics</i> , 2021, 37, 481-493.	0.8	7
36	Passive stiffness changes in the lumbar spine following simulated automotive low speed rear-end collisions. <i>Clinical Biomechanics</i> , 2021, 90, 105507.	1.2	2

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37	The impact of a progressive sit-stand rotation exposure duration on low back posture, muscle activation, and pain development. <i>Ergonomics</i> , 2021, 64, 502-511.	2.1	7
38	The Effects of an Acute Maximal Seated Lumbar Spine Flexion Exposure on Low Back Mechanical Pain Sensitivity. <i>Journal of Applied Biomechanics</i> , 2021, , 1-8.	0.8	0
39	Low back pain development differentially influences centre of pressure regularity following prolonged standing. <i>Gait and Posture</i> , 2020, 78, e1-e6.	1.4	17
40	Cervical spine joint loading with neck flexion. <i>Ergonomics</i> , 2020, 63, 101-108.	2.1	31
41	Strain of the facet joint capsule during rotation and translation range-of-motion tests: an in vitro porcine model as a human surrogate. <i>Spine Journal</i> , 2020, 20, 475-487.	1.3	4
42	A comparison of trunk control in people with no history, standing-induced, and recurrent low back pain during trunk extension. <i>Journal of Manual and Manipulative Therapy</i> , 2020, 28, 94-102.	1.2	4
43	Bathing frail seniors at home: Home care providersâ€™ approaches. <i>Work</i> , 2020, 66, 499-517.	1.1	4
44	Joint fatigue-failure: A demonstration of viscoelastic responses to rate and frequency loading parameters using the porcine cervical spine. <i>Journal of Biomechanics</i> , 2020, 113, 110081.	2.1	10
45	Footfall Deflection of Antifatigue Flooring During Simulated Human Stance. <i>Ergonomics in Design</i> , 2020, , 106480462097573.	0.7	0
46	Pain symptoms are reported earlier than quantitative measures of low back pain during prolonged standing. <i>Work</i> , 2020, 67, 149-155.	1.1	4
47	A Mobile Application to Measure Trunk Flexion Angles in Lifting Tasks. <i>IIEE Transactions on Occupational Ergonomics and Human Factors</i> , 2020, 8, 63-71.	0.8	0
48	Exploring the regional disc bulge response of the cervical porcine intervertebral disc under varying loads and posture. <i>Journal of Biomechanics</i> , 2020, 104, 109713.	2.1	3
49	The effect of age, prolonged seated work and sex on posture and perceived effort during a lifting task. <i>Applied Ergonomics</i> , 2020, 89, 103198.	3.1	4
50	The effect of axial twist angle on <i>in vitro</i> cumulative injury load tolerance: a magnitude-weighting approach for axial twist exposures. <i>Theoretical Issues in Ergonomics Science</i> , 2020, 21, 463-477.	1.8	2
51	A computerised system for measurement of the radial displacement of the intervertebral disc using a laser scanning device. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2020, 8, 287-293.	1.9	3
52	Expressing angles relative to reference postures: A mathematical comparison of four approaches. <i>Journal of Biomechanics</i> , 2020, 104, 109733.	2.1	6
53	Office Chair Backrest Height Affects Physiological Responses to Sitting. <i>IIEE Transactions on Occupational Ergonomics and Human Factors</i> , 2020, 8, 50-59.	0.8	1
54	A Comparison of Clinical Spinal Mobility Measures to Experimentally Derived Lumbar Spine Passive Stiffness. <i>Journal of Applied Biomechanics</i> , 2020, 36, 397-407.	0.8	6

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55	A pre/post evaluation of fatigue, stress and vigilance amongst commercially licensed truck drivers performing a prolonged driving task. <i>International Journal of Occupational Safety and Ergonomics</i> , 2019, 25, 344-354.	1.9	9
56	Spine loading during laboratory-simulated fireground operations – inter-individual variation and method of load quantification. <i>Ergonomics</i> , 2019, 62, 1426-1438.	2.1	10
57	Examining endplate fatigue failure during cyclic compression loading with variable and consistent peak magnitudes using a force weighting adjustment approach: an <i>in vitro</i> study. <i>Ergonomics</i> , 2019, 62, 1339-1348.	2.1	8
58	Author response: Re: Re: Fewster et al. (2019) Characterizing trunk muscle activations during simulated low-speed rear impact collisions. <i>Traffic Injury Prevention</i> , 2019, 20, 887-890.	1.4	0
59	The need to accommodate monitor height changes between sitting and standing. <i>Ergonomics</i> , 2019, 62, 1515-1523.	2.1	3
60	Incorporating loading variability into <i>in vitro</i> injury analyses and its effect on cumulative compression tolerance in porcine cervical spine units. <i>Journal of Biomechanics</i> , 2019, 88, 48-54.	2.1	11
61	Low-velocity motor vehicle collision characteristics associated with claimed low back pain. <i>Traffic Injury Prevention</i> , 2019, 20, 419-423.	1.4	8
62	Characterizing trunk muscle activations during simulated low-speed rear impact collisions. <i>Traffic Injury Prevention</i> , 2019, 20, 314-319.	1.4	5
63	The effect of age on <i>in-vivo</i> spine stiffness, postures and discomfort responses during prolonged sitting exposures. <i>Ergonomics</i> , 2019, 62, 917-927.	2.1	11
64	Does proactive cyclic usage of a footrest prevent the development of standing induced low back pain?. <i>Human Movement Science</i> , 2019, 66, 84-90.	1.4	7
65	Are hybrid “stand postures a good compromise between sitting and standing?. <i>Ergonomics</i> , 2019, 62, 811-822.	2.1	13
66	Evaluation of Fiberglass and Aluminum Ladder Stability During a Simulated Tethered Operator Fall Event. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2019, 63, 1797-1801.	0.3	0
67	Validation of an Ultrasound Protocol to Measure Intervertebral Axial Twist during Functional Twisting Movements in Isolated Functional Spinal Units. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 642-649.	1.5	5
68	Local dynamic stability of the lower extremity in novice and trained runners while running intraditional and minimal footwear. <i>Gait and Posture</i> , 2019, 68, 50-54.	1.4	10
69	Ergonomic evaluation of a new truck seat design: a field study. <i>International Journal of Occupational Safety and Ergonomics</i> , 2019, 25, 331-343.	1.9	7
70	Assisting Frail Seniors With Toileting in a Home Bathroom: Approaches Used by Home Care Providers. <i>Journal of Applied Gerontology</i> , 2019, 38, 717-749.	2.0	12
71	The effect of task type and perceived demands on postural movements during standing work. <i>Applied Ergonomics</i> , 2018, 69, 146-152.	3.1	4
72	The effects of shoulder abduction angle and wrist angle on upper extremity muscle activity in unilateral right handed push/pull tasks. <i>International Journal of Industrial Ergonomics</i> , 2018, 64, 102-107.	2.6	5

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73	Comparing the biomechanical and psychophysical demands imposed on paramedics when using manual and powered stretchers. <i>Applied Ergonomics</i> , 2018, 70, 167-174.	3.1	20
74	Biomechanical investigation of prolonged driving in an ergonomically designed truck seat prototype. <i>Ergonomics</i> , 2018, 61, 367-380.	2.1	26
75	Identifying interactive effects of task demands in lifting on estimates of in vivo low back joint loads. <i>Applied Ergonomics</i> , 2018, 67, 203-210.	3.1	20
76	Hip Abductor Fatigability and Recovery Are Related to the Development of Low Back Pain During Prolonged Standing. <i>Journal of Applied Biomechanics</i> , 2018, 34, 39-46.	0.8	15
77	A procedure for determining parameters of a simplified ligament model. <i>Journal of Biomechanics</i> , 2018, 66, 175-179.	2.1	4
78	A versatile approach to determine instantaneous co-activation: Development, implementation and comparison to existing measures. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2018, 21, 625-634.	1.6	1
79	Development and Test of a Short Message on Manual Materials Handling Hazards and Controls in Small and Micro Businesses. <i>IIEE Transactions on Occupational Ergonomics and Human Factors</i> , 2018, 6, 11-20.	0.8	3
80	Acute Surgical Injury Alters the Tensile Properties of Thoracolumbar Fascia in a Porcine Model. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	1.3	7
81	Can the Functional Movement Screen be used to capture changes in spine and knee motion control following 12 weeks of training?. <i>Physical Therapy in Sport</i> , 2017, 23, 50-57.	1.9	16
82	Neck muscle activity during simulated in-flight static neck postures and helmet mounted equipment. <i>Occupational Ergonomics</i> , 2017, 13, 119-130.	0.3	9
83	Baseline knee adduction moment interacts with body mass index to predict loss of medial tibial cartilage volume over 2.5 years in knee Osteoarthritis. <i>Journal of Orthopaedic Research</i> , 2017, 35, 2476-2483.	2.3	37
84	The impact of office chair features on lumbar lordosis, intervertebral joint and sacral tilt angles: a radiographic assessment. <i>Ergonomics</i> , 2017, 60, 1393-1404.	2.1	19
85	The distribution of lumbar intervertebral angles in upright standing and extension is related to low back pain developed during standing. <i>Clinical Biomechanics</i> , 2017, 49, 85-90.	1.2	11
86	Precision based guidelines for sub-maximal normalisation task selection for trunk extensor EMG. <i>Journal of Electromyography and Kinesiology</i> , 2017, 37, 41-51.	1.7	11
87	A mechanistic damage model for ligaments. <i>Journal of Biomechanics</i> , 2017, 61, 11-17.	2.1	8
88	An ergonomic evaluation of city police officers: an analysis of perceived discomfort within patrol duties. <i>International Journal of Occupational Safety and Ergonomics</i> , 2017, 23, 175-184.	1.9	12
89	Quantifying the postural demands of patrol officers: a field study. <i>International Journal of Occupational Safety and Ergonomics</i> , 2017, 23, 185-197.	1.9	5
90	The effect of standing interventions on acute low-back postures and muscle activation patterns. <i>Applied Ergonomics</i> , 2017, 58, 281-286.	3.1	23

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91	Influence of an oblique path of staircase descent on toe placement and foot clearance. <i>International Journal of Occupational Safety and Ergonomics</i> , 2016, 22, 580-586.	1.9	3
92	The Impact of Posture on the Mechanical Properties of a Functional Spinal Unit During Cyclic Compressive Loading. <i>Journal of Biomechanical Engineering</i> , 2016, 138, .	1.3	6
93	The Effect of Local Hydration Environment on the Mechanical Properties and Unloaded Temporal Changes of Isolated Porcine Annular Samples. <i>Journal of Biomechanical Engineering</i> , 2016, 138, .	1.3	2
94	Influence of input device, work surface angle, and task on spine kinematics. <i>Work</i> , 2016, 55, 773-782.	1.1	3
95	Influence of Input Hardware and Work Surface Angle on Upper Limb Posture in a Hybrid Computer Workstation. <i>Human Factors</i> , 2016, 58, 107-119.	3.5	9
96	Standing on a declining surface reduces transient prolonged standing induced low back pain development. <i>Applied Ergonomics</i> , 2016, 56, 76-83.	3.1	26
97	Is intervertebral disc pressure linked to herniation?: An in-vitro study using a porcine model. <i>Journal of Biomechanics</i> , 2016, 49, 1824-1830.	2.1	12
98	A hip abduction exercise prior to prolonged standing increased movement while reducing cocontraction and low back pain perception in those initially reporting low back pain. <i>Journal of Electromyography and Kinesiology</i> , 2016, 31, 63-71.	1.7	10
99	A radiographic assessment of lumbar spine posture in four different upright standing positions. <i>Clinical Biomechanics</i> , 2016, 37, 131-136.	1.2	13
100	Asymmetry of lumbopelvic movement patterns during active hip abduction is a risk factor for low back pain development during standing. <i>Human Movement Science</i> , 2016, 50, 38-46.	1.4	21
101	Peak Stress in the Annulus Fibrosus Under Cyclic Biaxial Tensile Loading. <i>Journal of Biomechanical Engineering</i> , 2016, 138, 051006.	1.3	5
102	The influence of repeated chin bar impacts on the protective properties of full-face mountain biking helmets. <i>Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology</i> , 2016, 230, 213-224.	0.7	3
103	Effect of obesity on knee joint biomechanics during gait in young adults. <i>Cogent Medicine</i> , 2016, 3, 1173778.	0.7	13
104	Psychological Factors Are Related to Pain Intensity in Back-Healthy People Who Develop Clinically Relevant Pain During Prolonged Standing: A Preliminary Study. <i>PM and R</i> , 2016, 8, 1031-1038.	1.6	13
105	A comparison of trunk biomechanics, musculoskeletal discomfort and productivity during simulated sit-stand office work. <i>Ergonomics</i> , 2016, 59, 1275-1287.	2.1	55
106	Lumbar postures, seat interface pressures and discomfort responses to a novel thoracic support for police officers during prolonged simulated driving exposures. <i>Applied Ergonomics</i> , 2016, 52, 160-168.	3.1	23
107	FMS Scores Change With Performers's Knowledge of the Grading Criteria"Are General Whole-Body Movement Screens Capturing "Dysfunction"? <i>Journal of Strength and Conditioning Research</i> , 2015, 29, 3037-3044.	2.1	53
108	Validity of a Paradigm for Low Back Pain Symptom Development During Prolonged Standing. <i>Clinical Journal of Pain</i> , 2015, 31, 652-659.	1.9	25

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109	Exercise-Based Performance Enhancement and Injury Prevention for Firefighters. <i>Journal of Strength and Conditioning Research</i> , 2015, 29, 2441-2459.	2.1	33
110	The Influence of Load and Speed on Individuals' Movement Behavior. <i>Journal of Strength and Conditioning Research</i> , 2015, 29, 2417-2425.	2.1	15
111	The impact of compressive force magnitude on the <i>in vitro</i> neutral zone range and passive stiffness during a flexion-extension range of motion test. <i>Cogent Engineering</i> , 2015, 2, 1014253.	2.2	2
112	Is lumbar lordosis related to low back pain development during prolonged standing?. <i>Manual Therapy</i> , 2015, 20, 553-557.	1.6	88
113	Is Standing the Solution to Sedentary Office Work?. <i>Ergonomics in Design</i> , 2015, 23, 20-24.	0.7	35
114	Evaluating Abdominal and Lower-Back Muscle Activity While Performing Core Exercises on a Stability Ball and a Dynamic Office Chair. <i>Human Factors</i> , 2015, 57, 1149-1161.	3.5	13
115	Effects of sitting and standing on upper extremity physical exposures in materials handling tasks. <i>Ergonomics</i> , 2015, 58, 1637-1646.	2.1	13
116	Knee adduction moment relates to medial femoral and tibial cartilage morphology in clinical knee osteoarthritis. <i>Journal of Biomechanics</i> , 2015, 48, 3495-3501.	2.1	34
117	An appraisal of the Functional Movement Screen's grading criteria "Is the composite score sensitive to risky movement behavior?. <i>Physical Therapy in Sport</i> , 2015, 16, 324-330.	1.9	22
118	A proposed method to detect kinematic differences between and within individuals. <i>Journal of Electromyography and Kinesiology</i> , 2015, 25, 479-487.	1.7	6
119	Spine Posture and Discomfort During Prolonged Simulated Driving With Self-Selected Lumbar Support Prominence. <i>Human Factors</i> , 2015, 57, 976-987.	3.5	23
120	Characterizing the combined effects of force, repetition and posture on injury pathways and micro-structural damage in isolated functional spinal units from sub-acute-failure magnitudes of cyclic compressive loading. <i>Clinical Biomechanics</i> , 2015, 30, 953-959.	1.2	23
121	Early static standing is associated with prolonged standing induced low back pain. <i>Human Movement Science</i> , 2015, 44, 111-121.	1.4	56
122	Exploring interactions between force, repetition and posture on intervertebral disc height loss and bulging in isolated porcine cervical functional spinal units from sub-acute-failure magnitudes of cyclic compressive loading. <i>Journal of Biomechanics</i> , 2015, 48, 3701-3708.	2.1	18
123	A finite element evaluation of the moment arm hypothesis for altered vertebral shear failure force. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 545-555.	1.6	0
124	The predictive value of general movement tasks in assessing occupational task performance. <i>Work</i> , 2015, 52, 11-18.	1.1	12
125	Localized strain measurements of the intervertebral disc annulus during biaxial tensile testing. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 1737-1743.	1.6	5
126	The Effect of Wallet Thickness on Spine Posture, Seat Interface Pressure, and Perceived Discomfort During Sitting. <i>IIE Transactions on Occupational Ergonomics and Human Factors</i> , 2014, 2, 83-93.	0.4	4

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127	Semi-automatic Fisher-Tippett guided active contour for lumbar multifidus muscle segmentation. , 2014, 2014, 5530-3.		3
128	Markov-chain Monte Carlo-based image reconstruction for streak artefact reduction on contrast-enhanced computed tomography. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2014, 2, 67-75.	1.9	0
129	Knee Power Is an Important Parameter in Understanding Medial Knee Joint Load in Knee Osteoarthritis. Arthritis Care and Research, 2014, 66, 687-694.	3.4	15
130	The influence of precision requirements and cognitive challenges on upper extremity joint reaction forces, moments and muscle force estimates during prolonged repetitive lifting. Ergonomics, 2014, 57, 236-246.	2.1	7
131	FMSâ„¢ scores and low-back loading during lifting â€œ Whole-body movement screening as an ergonomic tool?. Applied Ergonomics, 2014, 45, 482-489.	3.1	26
132	Analysis of muscle activation patterns during transitions into and out of high knee flexion postures. Journal of Electromyography and Kinesiology, 2014, 24, 711-717.	1.7	10
133	The influence of a seated break on prolonged standing induced low back pain development. Ergonomics, 2014, 57, 555-562.	2.1	94
134	Physical fitness improvements and occupational low-back loading â€œ an exercise intervention study with firefighters. Ergonomics, 2014, 57, 744-763.	2.1	43
135	Biomechanical and ergonomic assessment of urban transit operators. Work, 2014, 47, 33-44.	1.1	24
136	The impact of sitâ€œstand office workstations on worker discomfort andÂŽproductivity: A review. Applied Ergonomics, 2014, 45, 799-806.	3.1	150
137	The effect of police cruiser restraint cage configuration on shoulder discomfort, muscular demands, upper limb postures, and task performance during simulated police patrol. Applied Ergonomics, 2014, 45, 1414-1421.	3.1	8
138	Three-dimensional peak and cumulative shoulder loads and postures during non-occupational tasks: A preliminary investigation. Work, 2014, 47, 73-86.	1.1	2
139	Unilateral ankle immobilization alters the kinematics and kinetics of lifting. Work, 2014, 47, 221-234.	1.1	19
140	Transient Low Back Pain Development During Standing Predicts Future Clinical Low Back Pain in Previously Asymptomatic Individuals. Spine, 2014, 39, E379-E383.	2.0	47
141	Existing muscle synergies and low back pain. , 2013, , 113-122.		0
142	The impact of shear force magnitude on cumulative injury load tolerance: a force weighting approach for low-back shear loads. Theoretical Issues in Ergonomics Science, 2013, 14, 402-416.	1.8	2
143	Gait adaptations to different paths of stair descent. Gait and Posture, 2013, 38, 691-695.	1.4	3
144	Postural influence on the neutral zone of the porcine cervical spine under anteriorâ€œposterior shear load. Medical Engineering and Physics, 2013, 35, 910-918.	1.7	8

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145	Possible mechanisms for the reduction of low back pain associated with standing on a sloped surface. <i>Gait and Posture</i> , 2013, 37, 313-318.	1.4	20
146	Towards establishing an occupational threshold for cumulative shear force in the vertebral joint – An in vitro evaluation of a risk factor for spondylolytic fractures using porcine specimens. <i>Clinical Biomechanics</i> , 2013, 28, 246-254.	1.2	5
147	Should We Be More on the Ball?. <i>Human Factors</i> , 2013, 55, 1064-1076.	3.5	13
148	Cumulative knee adductor load distinguishes between healthy and osteoarthritic knees – A proof of principle study. <i>Gait and Posture</i> , 2013, 37, 397-401.	1.4	48
149	Development of an equation for calculating vertebral shear failure tolerance without destructive mechanical testing using iterative linear regression. <i>Medical Engineering and Physics</i> , 2013, 35, 1212-1220.	1.7	1
150	Partial rupture of the Achilles tendon during a simulated fire ground task: Insights obtained from a case report for the prevention and reporting of musculoskeletal injury. <i>Clinical Biomechanics</i> , 2013, 28, 436-440.	1.2	5
151	A Stochastic Framework for Movement Strategy Identification and Analysis. <i>IEEE Transactions on Human-Machine Systems</i> , 2013, 43, 314-327.	3.5	12
152	Characterization of the protective capacity of flooring systems using force-deflection profiling. <i>Medical Engineering and Physics</i> , 2013, 35, 108-115.	1.7	19
153	Anthropometry-Corrected Exposure Modeling as a Method to Improve Trunk Posture Assessment with a Single Inclinometer. <i>Journal of Occupational and Environmental Hygiene</i> , 2013, 10, 143-154.	1.0	11
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