

Maury A. Nussbaum

List of Publications by Year in descending order

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304
papers

7,528
citations

53660

45
h-index

88477

70
g-index

326
all docs

326
docs citations

326
times ranked

5225
citing authors

#	ARTICLE	IF	CITATIONS
1	Reliability of COP-based postural sway measures and age-related differences. <i>Gait and Posture</i> , 2008, 28, 337-342.	0.6	313
2	Fatigue, performance and the work environment: a survey of registered nurses. <i>Journal of Advanced Nursing</i> , 2011, 67, 1370-1382.	1.5	264
3	Maximum voluntary joint torque as a function of joint angle and angular velocity: Model development and application to the lower limb. <i>Journal of Biomechanics</i> , 2007, 40, 3105-3113.	0.9	191
4	Assessing the influence of a passive, upper extremity exoskeletal vest for tasks requiring arm elevation: Part I – “Expected” effects on discomfort, shoulder muscle activity, and work task performance. <i>Applied Ergonomics</i> , 2018, 70, 315-322.	1.7	167
5	Driver sitting comfort and discomfort (part II): Relationships with and prediction from interface pressure. <i>International Journal of Industrial Ergonomics</i> , 2008, 38, 526-538.	1.5	151
6	Assessing the influence of a passive, upper extremity exoskeletal vest for tasks requiring arm elevation: Part II – “Unexpected” effects on shoulder motion, balance, and spine loading. <i>Applied Ergonomics</i> , 2018, 70, 323-330.	1.7	137
7	Effects of lumbar extensor fatigue and fatigue rate on postural sway. <i>European Journal of Applied Physiology</i> , 2004, 93, 183-189.	1.2	128
8	Performance evaluation of a wearable inertial motion capture system for capturing physical exposures during manual material handling tasks. <i>Ergonomics</i> , 2013, 56, 314-326.	1.1	123
9	Ergonomic evaluation of a wearable assistive device for overhead work. <i>Ergonomics</i> , 2014, 57, 1864-1874.	1.1	117
10	Interactive effects of physical and mental workload on subjective workload assessment. <i>International Journal of Industrial Ergonomics</i> , 2008, 38, 977-983.	1.5	114
11	Driver sitting comfort and discomfort (part I): Use of subjective ratings in discriminating car seats and correspondence among ratings. <i>International Journal of Industrial Ergonomics</i> , 2008, 38, 516-525.	1.5	111
12	Influences of different exoskeleton designs and tool mass on physical demands and performance in a simulated overhead drilling task. <i>Applied Ergonomics</i> , 2019, 74, 55-66.	1.7	94
13	Potential of Exoskeleton Technologies to Enhance Safety, Health, and Performance in Construction: Industry Perspectives and Future Research Directions. <i>IIEE Transactions on Occupational Ergonomics and Human Factors</i> , 2019, 7, 185-191.	0.5	94
14	Effects of different physical workload parameters on mental workload and performance. <i>International Journal of Industrial Ergonomics</i> , 2011, 41, 255-260.	1.5	93
15	Fatigue during prolonged intermittent overhead work: reliability of measures and effects of working height. <i>Ergonomics</i> , 2007, 50, 497-513.	1.1	90
16	Static and dynamic myoelectric measures of shoulder muscle fatigue during intermittent dynamic exertions of low to moderate intensity. <i>European Journal of Applied Physiology</i> , 2001, 85, 299-309.	1.2	86
17	Influences of augmented reality head-worn display type and user interface design on performance and usability in simulated warehouse order picking. <i>Applied Ergonomics</i> , 2019, 74, 186-193.	1.7	86
18	Practicing recovery from a simulated trip improves recovery kinematics after an actual trip. <i>Gait and Posture</i> , 2007, 26, 208-213.	0.6	85

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19	Postural sway and joint kinematics during quiet standing are affected by lumbar extensor fatigue. <i>Human Movement Science</i> , 2006, 25, 788-799.	0.6	84
20	Acute effects of localized muscle fatigue on postural control and patterns of recovery during upright stance: influence of fatigue location and age. <i>European Journal of Applied Physiology</i> , 2009, 106, 425-434.	1.2	82
21	Effects of Two Passive Back-Support Exoskeletons on Muscle Activity, Energy Expenditure, and Subjective Assessments During Repetitive Lifting. <i>Human Factors</i> , 2020, 62, 458-474.	2.1	80
22	Influence of fatigue time and level on increases in postural sway. <i>Ergonomics</i> , 2006, 49, 1639-1648.	1.1	78
23	The influence of age on isometric endurance and fatigue is muscle dependent: a study of shoulder abduction and torso extension. <i>Ergonomics</i> , 2007, 50, 26-45.	1.1	73
24	Muscle fatigue and endurance during repetitive intermittent static efforts: development of prediction models. <i>Ergonomics</i> , 2006, 49, 344-360.	1.1	70
25	The effects of fatigue on performance in simulated nursing work. <i>Ergonomics</i> , 2011, 54, 815-829.	1.1	68
26	Muscle lines-of-action affect predicted forces in optimization-based spine muscle modeling. <i>Journal of Biomechanics</i> , 1995, 28, 401-409.	0.9	66
27	Biomechanical assessment of two back-support exoskeletons in symmetric and asymmetric repetitive lifting with moderate postural demands. <i>Applied Ergonomics</i> , 2020, 88, 103156.	1.7	66
28	The spectral content of postural sway during quiet stance: Influences of age, vision and somatosensory inputs. <i>Journal of Electromyography and Kinesiology</i> , 2012, 22, 131-136.	0.7	64
29	Disturbance and recovery of trunk stiffness and reflexive muscle responses following prolonged trunk flexion: Influences of flexion angle and duration. <i>Clinical Biomechanics</i> , 2011, 26, 250-256.	0.5	63
30	Biomechanical Evaluation of Passive Back-Support Exoskeletons in a Precision Manual Assembly Task: "Expected" Effects on Trunk Muscle Activity, Perceived Exertion, and Task Performance. <i>Human Factors</i> , 2020, 62, 441-457.	2.1	62
31	Development and evaluation of a scalable and deformable geometric model of the human torso. <i>Clinical Biomechanics</i> , 1996, 11, 25-34.	0.5	60
32	An Introduction to the Special Issue on "Occupational Exoskeletons". <i>IIE Transactions on Occupational Ergonomics and Human Factors</i> , 2019, 7, 153-162.	0.5	60
33	Postural strategy changes with fatigue of the lumbar extensor muscles. <i>Gait and Posture</i> , 2006, 23, 348-354.	0.6	58
34	Lumbar muscle force estimation using a subject-invariant 5-parameter EMG-based model. <i>Journal of Biomechanics</i> , 1998, 31, 667-672.	0.9	57
35	Fatigue and Endurance Limits During Intermittent Overhead Work. <i>AIHAJ: A Journal for the Science of Occupational and Environmental Health and Safety</i> , 2001, 62, 446-456.	0.4	55
36	A heuristic checklist for an accessible smartphone interface design. <i>Universal Access in the Information Society</i> , 2014, 13, 351-365.	2.1	55

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37	Systematic evaluation methodology for cell phone user interfaces. <i>Interacting With Computers</i> , 2006, 18, 304-325.	1.0	54
38	Short-term effects of backpack carriage on plantar pressure and gait in schoolchildren. <i>Journal of Electromyography and Kinesiology</i> , 2015, 25, 406-412.	0.7	54
39	Specifying comfortable driving postures for ergonomic design and evaluation of the driver workspace using digital human models. <i>Ergonomics</i> , 2009, 52, 939-953.	1.1	52
40	Locomotor deficits in recently concussed athletes and matched controls during single and dual-task turning gait: preliminary results. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2016, 13, 65.	2.4	51
41	Effects of external loads on balance control during upright stance: Experimental results and model-based predictions. <i>Gait and Posture</i> , 2009, 29, 23-30.	0.6	50
42	Effects of localized muscle fatigue on recovery from a postural perturbation without stepping. <i>Gait and Posture</i> , 2009, 29, 552-557.	0.6	49
43	An EMG-based model to estimate lumbar muscle forces and spinal loads during complex, high-effort tasks: Development and application to residential construction using prefabricated walls. <i>International Journal of Industrial Ergonomics</i> , 2011, 41, 437-446.	1.5	49
44	Does load carriage differentially alter postural sway in overweight vs. normal-weight schoolchildren?. <i>Gait and Posture</i> , 2012, 35, 378-382.	0.6	49
45	Assessing the potential for "undesired" effects of passive back-support exoskeleton use during a simulated manual assembly task: Muscle activity, posture, balance, discomfort, and usability. <i>Applied Ergonomics</i> , 2020, 89, 103194.	1.7	49
46	Disturbance and recovery of trunk mechanical and neuromuscular behaviours following prolonged trunk flexion: influences of duration and external load on creep-induced effects. <i>Ergonomics</i> , 2011, 54, 1043-1052.	1.1	48
47	Effects of exoskeleton design and precision requirements on physical demands and quality in a simulated overhead drilling task. <i>Applied Ergonomics</i> , 2019, 80, 136-145.	1.7	48
48	Augmented Reality "Smart Glasses" in the Workplace: Industry Perspectives and Challenges for Worker Safety and Health. <i>IIE Transactions on Occupational Ergonomics and Human Factors</i> , 2016, 4, 253-258.	0.5	47
49	Low back injury risks during construction with prefabricated (panelised) walls: effects of task and design factors. <i>Ergonomics</i> , 2011, 54, 60-71.	1.1	45
50	Occupational health outcomes for workers in the agriculture, forestry and fishing sector: Implications for immigrant workers in the southeastern US. <i>American Journal of Industrial Medicine</i> , 2013, 56, 940-959.	1.0	45
51	Fatigue and Endurance Limits During Intermittent Overhead Work. <i>AIHA Journal</i> , 2001, 62, 446-456.	0.4	44
52	Age related differences in mechanical demands imposed on the lower back by manual material handling tasks. <i>Journal of Biomechanics</i> , 2016, 49, 896-903.	0.9	43
53	Muscular Fatigue and Endurance During Intermittent Static Efforts: Effects of Contraction Level, Duty Cycle, and Cycle Time. <i>Human Factors</i> , 2006, 48, 710-720.	2.1	42
54	Decreased high-frequency center-of-pressure complexity in recently concussed asymptomatic athletes. <i>Gait and Posture</i> , 2016, 50, 69-74.	0.6	42

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55	Supporting Surgical Teams: Identifying Needs and Barriers for Exoskeleton Implementation in the Operating Room. <i>Human Factors</i> , 2020, 62, 377-390.	2.1	42
56	Torso Muscle Moment Arms at Intervertebral Levels T10 Through L5 from CT Scans on Eleven Male and Eight Female Subjects. <i>Spine</i> , 1993, 18, 2305-2309.	1.0	41
57	A back-propagation neural network model of lumbar muscle recruitment during moderate static exertions. <i>Journal of Biomechanics</i> , 1995, 28, 1015-1024.	0.9	41
58	A balance control model of quiet upright stance based on an optimal control strategy. <i>Journal of Biomechanics</i> , 2007, 40, 3590-3597.	0.9	41
59	Utility of traditional and alternative EMG-based measures of fatigue during low-moderate level isometric efforts. <i>Journal of Electromyography and Kinesiology</i> , 2008, 18, 44-53.	0.7	41
60	Postural Stability Is Compromised by Fatiguing Overhead Work. <i>AIHA Journal: A Journal for the Science of Occupational and Environmental Health and Safety</i> , 2003, 64, 56-61.	0.4	40
61	Changes in body segment inertial parameters of obese individuals with weight loss. <i>Journal of Biomechanics</i> , 2008, 41, 3278-3281.	0.9	40
62	Persons with lower-limb amputation have impaired trunk postural control while maintaining seated balance. <i>Gait and Posture</i> , 2013, 38, 438-442.	0.6	40
63	Muscle- and task-dependent responses to concurrent physical and mental workload during intermittent static work. <i>Ergonomics</i> , 2012, 55, 1166-1179.	1.1	38
64	Heuristics for locating upper extremity joint centres from a reduced set of surface markers. <i>Human Movement Science</i> , 2000, 19, 797-816.	0.6	37
65	A "Smart" Undershirt for Tracking Upper Body Motions: Task Classification and Angle Estimation. <i>IEEE Sensors Journal</i> , 2018, 18, 7650-7658.	2.4	37
66	Preferred Placement and Usability of a Smart Textile System vs. Inertial Measurement Units for Activity Monitoring. <i>Sensors</i> , 2018, 18, 2501.	2.1	37
67	Interactive effects of mental and postural demands on subjective assessment of mental workload and postural stability. <i>Safety Science</i> , 2005, 43, 485-495.	2.6	36
68	Accessible cell phone design: development and application of a needs analysis framework. <i>Disability and Rehabilitation</i> , 2003, 25, 549-560.	0.9	35
69	Comparison of Treadmill Trip-Like Training Versus Tai Chi to Improve Reactive Balance Among Independent Older Adult Residents of Senior Housing: A Pilot Controlled Trial. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019, 74, 1497-1503.	1.7	35
70	A Follow-Up Study of the Effects of An Arm Support Exoskeleton on Physical Demands and Task Performance During Simulated Overhead Work. <i>IIEE Transactions on Occupational Ergonomics and Human Factors</i> , 2019, 7, 163-174.	0.5	35
71	Measurement and prediction of single and multi-digit finger strength. <i>Ergonomics</i> , 2003, 46, 1531-1548.	1.1	33
72	Direct parameterization of postural stability during quiet upright stance: Effects of age and altered sensory conditions. <i>Journal of Biomechanics</i> , 2008, 41, 406-411.	0.9	33

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73	Neural Control of Posture During Small Magnitude Perturbations: Effects of Aging and Localized Muscle Fatigue. <i>IEEE Transactions on Biomedical Engineering</i> , 2011, 58, 1546-1554.	2.5	32
74	Effects of rotation frequency and task order on localised muscle fatigue and performance during repetitive static shoulder exertions. <i>Ergonomics</i> , 2012, 55, 1205-1217.	1.1	32
75	Obesity-related differences in muscular capacity during sustained isometric exertions. <i>Applied Ergonomics</i> , 2013, 44, 254-260.	1.7	32
76	Cycle time influences the development of muscle fatigue at low to moderate levels of intermittent muscle contraction. <i>Journal of Electromyography and Kinesiology</i> , 2016, 28, 37-45.	0.7	32
77	Low-back stresses when learning to use a materials handling device. <i>Ergonomics</i> , 1999, 42, 94-110.	1.1	31
78	A review of occupationally-relevant models of localised muscle fatigue. <i>International Journal of Human Factors Modelling and Simulation</i> , 2015, 5, 61.	0.1	31
79	Detecting and Classifying Self-injurious Behavior in Autism Spectrum Disorder Using Machine Learning Techniques. <i>Journal of Autism and Developmental Disorders</i> , 2020, 50, 4039-4052.	1.7	31
80	A neural network model for simulation of torso muscle coordination. <i>Journal of Biomechanics</i> , 1997, 30, 251-258.	0.9	29
81	The Influences of Obesity and Age on Functional Performance During Intermittent Upper Extremity Tasks. <i>Journal of Occupational and Environmental Hygiene</i> , 2014, 11, 583-590.	0.4	29
82	Adoption potential of occupational exoskeletons in diverse enterprises engaged in manufacturing tasks. <i>International Journal of Industrial Ergonomics</i> , 2021, 82, 103103.	1.5	29
83	Effects of an arm-support exoskeleton on perceived work intensity and musculoskeletal discomfort: An 18-month field study in automotive assembly. <i>American Journal of Industrial Medicine</i> , 2021, 64, 905-914.	1.0	29
84	Muscle fatigue during intermittent isokinetic shoulder abduction: Age effects and utility of electromyographic measures. <i>Ergonomics</i> , 2007, 50, 1110-1126.	1.1	28
85	Knowledge and opinions of designers of industrialized wall panels regarding incorporating ergonomics in design. <i>International Journal of Industrial Ergonomics</i> , 2008, 38, 150-157.	1.5	28
86	Development of a decision support system for residential construction using panellised walls: Approach and preliminary results. <i>Ergonomics</i> , 2009, 52, 87-103.	1.1	27
87	The benefits of an additional worker are task-dependent: Assessing low-back injury risks during prefabricated (panelized) wall construction. <i>Applied Ergonomics</i> , 2012, 43, 843-849.	1.7	27
88	Influences of continuous sitting and psychosocial stress on low back kinematics, kinetics, discomfort, and localized muscle fatigue during unsupported sitting activities. <i>Ergonomics</i> , 2018, 61, 1671-1684.	1.1	27
89	Biomechanical analysis of materials handling manipulators in short distance transfers of moderate mass objects: joint strength, spine forces and muscular antagonism. <i>Ergonomics</i> , 1999, 42, 1597-1618.	1.1	26
90	Infrared imaging of the anterior deltoid during overhead static exertions. <i>Ergonomics</i> , 2008, 51, 1606-1619.	1.1	26

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91	Persons with unilateral lower-limb amputation have altered and asymmetric trunk mechanical and neuromuscular behaviors estimated using multidirectional trunk perturbations. <i>Journal of Biomechanics</i> , 2013, 46, 1907-1912.	0.9	26
92	An evaluation of classification algorithms for manual material handling tasks based on data obtained using wearable technologies. <i>Ergonomics</i> , 2014, 57, 1040-1051.	1.1	26
93	Experienced workers exhibit distinct torso kinematics/kinetics and patterns of task dependency during repetitive lifts and lowers. <i>Ergonomics</i> , 2012, 55, 1535-1547.	1.1	25
94	Dimensions of Fatigue as Predictors of Performance: A Structural Equation Modeling Approach Among Registered Nurses. <i>IIE Transactions on Occupational Ergonomics and Human Factors</i> , 2013, 1, 16-30.	0.5	25
95	Perturbation-based balance training targeting both slip- and trip-induced falls among older adults: a randomized controlled trial. <i>BMC Geriatrics</i> , 2020, 20, 205.	1.1	25
96	Back lift versus leg lift: an index and visualization of dynamic lifting strategies. <i>Journal of Biomechanics</i> , 2000, 33, 777-782.	0.9	24
97	Lumbar extensor fatigue and circumferential ankle pressure impair ankle joint motion sense. <i>Neuroscience Letters</i> , 2005, 390, 9-14.	1.0	24
98	Ergonomic evaluation of hospital bed design features during patient handling tasks. <i>International Journal of Industrial Ergonomics</i> , 2011, 41, 647-652.	1.5	24
99	Pattern classification reveals intersubject group differences in lumbar muscle recruitment during static loading. <i>Clinical Biomechanics</i> , 1997, 12, 97-106.	0.5	23
100	Mathematical modeling and simulation of seated stability. <i>Journal of Biomechanics</i> , 2010, 43, 906-912.	0.9	23
101	Effects of wearing chemical protective clothing on text entry when using wearable input devices. <i>International Journal of Industrial Ergonomics</i> , 2007, 37, 525-530.	1.5	22
102	Age and gender moderate the effects of localized muscle fatigue on lower extremity joint torques used during quiet stance. <i>Human Movement Science</i> , 2011, 30, 574-583.	0.6	22
103	Experienced workers may sacrifice peak torso kinematics/kinetics for enhanced balance/stability during repetitive lifting. <i>Journal of Biomechanics</i> , 2013, 46, 1211-1215.	0.9	22
104	Effects of exercise-induced low back pain on intrinsic trunk stiffness and paraspinal muscle reflexes. <i>Journal of Biomechanics</i> , 2013, 46, 801-805.	0.9	22
105	Classifying Diverse Physical Activities Using "Smart Garments" Sensors, 2019, 19, 3133.	2.1	22
106	Evaluation of the threshold of stability for the human spine. <i>Journal of Biomechanics</i> , 2009, 42, 1017-1022.	0.9	21
107	A neural network model for predicting postures during non-repetitive manual materials handling tasks. <i>Ergonomics</i> , 2008, 51, 1549-1564.	1.1	20
108	Estimation of forces exerted by the fingers using standardised surface electromyography from the forearm. <i>Ergonomics</i> , 2008, 51, 858-871.	1.1	20

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109	Effects of age, gender, and task parameters on fatigue development during intermittent isokinetic torso extensions. <i>International Journal of Industrial Ergonomics</i> , 2009, 39, 185-191.	1.5	20
110	Evaluation of the roles of passive and active control of balance using a balance control model. <i>Journal of Biomechanics</i> , 2009, 42, 1850-1855.	0.9	20
111	Model-based assessments of the effects of age and ankle fatigue on the control of upright posture in humans. <i>Gait and Posture</i> , 2009, 30, 518-522.	0.6	20
112	Load-Relaxation Properties of the Human Trunk in Response to Prolonged Flexion: Measuring and Modeling the Effect of Flexion Angle. <i>PLoS ONE</i> , 2012, 7, e48625.	1.1	20
113	Disturbance and recovery of trunk mechanical and neuromuscular behaviors following repeated static trunk flexion: Influences of duration and duty cycle on creep-induced effects. <i>Applied Ergonomics</i> , 2013, 44, 643-651.	1.7	20
114	A bootstrapping method to assess the influence of age, obesity, gender, and gait speed on probability of tripping as a function of obstacle height. <i>Journal of Biomechanics</i> , 2015, 48, 1229-1232.	0.9	20
115	Falls resulting from a laboratory-induced slip occur at a higher rate among individuals who are obese. <i>Journal of Biomechanics</i> , 2016, 49, 678-683.	0.9	20
116	Principal components analysis as an evaluation and classification tool for lower torso sEMG data. <i>Journal of Biomechanics</i> , 2003, 36, 1225-1229.	0.9	19
117	Evaluation of circumferential pressure as an intervention to mitigate postural instability induced by localized muscle fatigue at the ankle. <i>International Journal of Industrial Ergonomics</i> , 2009, 39, 821-827.	1.5	19
118	Creep Deformation of the Human Trunk in Response to Prolonged and Repetitive Flexion: Measuring and Modeling the Effect of External Moment and Flexion Rate. <i>Annals of Biomedical Engineering</i> , 2013, 41, 1150-1161.	1.3	19
119	Evidence for an exposure-response relationship between trunk flexion and impairments in trunk postural control. <i>Journal of Biomechanics</i> , 2013, 46, 2554-2557.	0.9	19
120	Influences of Obesity on Job Demands and Worker Capacity. <i>Current Obesity Reports</i> , 2014, 3, 341-347.	3.5	19
121	Online classification and sensor selection optimization with applications to human material handling tasks using wearable sensing technologies. <i>IEEE Transactions on Human-Machine Systems</i> , 2016, 46, 485-497.	2.5	19
122	Using a smart textile system for classifying occupational manual material handling tasks: evidence from lab-based simulations. <i>Ergonomics</i> , 2019, 62, 823-833.	1.1	19
123	Motion times, hand forces, and trunk kinematics when using material handling manipulators in short-distance transfers of moderate mass objects. <i>Applied Ergonomics</i> , 2000, 31, 227-237.	1.7	18
124	Lower Torso Muscle Activation Patterns for High-Magnitude Static Exertions. <i>Spine</i> , 2002, 27, 1326-1335.	1.0	18
125	Soft tissue wobbling affects trunk dynamic response in sudden perturbations. <i>Journal of Biomechanics</i> , 2011, 44, 547-551.	0.9	18
126	Identification of physically demanding patient-handling tasks in an acute care hospital. <i>International Journal of Industrial Ergonomics</i> , 2012, 42, 261-267.	1.5	18

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127	Age-related differences in trunk intrinsic stiffness. <i>Journal of Biomechanics</i> , 2016, 49, 926-932.	0.9	18
128	Impact of task design on task performance and injury risk: case study of a simulated drilling task. <i>Ergonomics</i> , 2017, 60, 851-866.	1.1	18
129	Effects of training in modifying working methods during common patient-handling activities. <i>International Journal of Industrial Ergonomics</i> , 2001, 27, 33-41.	1.5	17
130	Empirical evaluation of training and a work analysis tool for participatory ergonomics. <i>International Journal of Industrial Ergonomics</i> , 2003, 31, 387-396.	1.5	17
131	Effects of two hospital bed design features on physical demands and usability during brake engagement and patient transportation: A repeated measures experimental study. <i>International Journal of Nursing Studies</i> , 2009, 46, 317-325.	2.5	17
132	Effects of lumbar extensor fatigue and surface inclination on postural control during quiet stance. <i>Applied Ergonomics</i> , 2012, 43, 1008-1015.	1.7	17
133	Age-related difference in perceptual responses and interface pressure requirements for driver seat design. <i>Ergonomics</i> , 2013, 56, 1795-1805.	1.1	17
134	Determination and Evaluation of Acceptable Force Limits in Single-Digit Tasks. <i>Human Factors</i> , 2002, 44, 545-556.	2.1	16
135	A new method for gravity correction of dynamometer data and determining passive elastic moments at the joint. <i>Journal of Biomechanics</i> , 2010, 43, 1220-1223.	0.9	16
136	Relative Strength at the Hip, Knee, and Ankle Is Lower Among Younger and Older Females Who Are Obese. <i>Journal of Geriatric Physical Therapy</i> , 2017, 40, 143-149.	0.6	16
137	Effects of back-support exoskeleton use on gait performance and stability during level walking. <i>Gait and Posture</i> , 2022, 92, 181-190.	0.6	16
138	Simulating Human Lifting Motions Using Fuzzy-Logic Control. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2009, 39, 109-118.	3.4	15
139	Differences in functional performance of the shoulder musculature with obesity and aging. <i>International Journal of Industrial Ergonomics</i> , 2013, 43, 393-399.	1.5	15
140	Executive Function and Measures of Fall Risk Among People With Obesity. <i>Perceptual and Motor Skills</i> , 2016, 122, 825-839.	0.6	15
141	School-based screening of plantar pressures during level walking with a backpack among overweight and obese schoolchildren. <i>Ergonomics</i> , 2016, 59, 697-703.	1.1	15
142	Temporal changes in motor variability during prolonged lifting/lowering and the influence of work experience. <i>Journal of Electromyography and Kinesiology</i> , 2017, 37, 61-67.	0.7	15
143	Feet kinematics upon slipping discriminate between recoveries and three types of slip-induced falls. <i>Ergonomics</i> , 2018, 61, 866-876.	1.1	15
144	Information presentation through a head-worn display (‘‘smart glasses’’) has a smaller influence on the temporal structure of gait variability during dual-task gait compared to handheld displays (paper-based system and smartphone). <i>PLoS ONE</i> , 2018, 13, e0195106.	1.1	15

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145	Mathematical Models of Localized Muscle Fatigue: Sensitivity Analysis and Assessment of Two Occupationally-Relevant Models. <i>PLoS ONE</i> , 2015, 10, e0143872.	1.1	15
146	Exploratory Field Testing of Passive Exoskeletons in Several Manufacturing Environments: Perceived Usability and User Acceptance. <i>IIEE Transactions on Occupational Ergonomics and Human Factors</i> , 2022, 10, 71-82.	0.5	15
147	Enhancing digital driver models: Identification of distinct postural strategies used by drivers. <i>Ergonomics</i> , 2010, 53, 375-384.	1.1	14
148	Effects of work experience on work methods during dynamic pushing and pulling. <i>International Journal of Industrial Ergonomics</i> , 2014, 44, 647-653.	1.5	14
149	Alternative measures of toe trajectory more accurately predict the probability of tripping than minimum toe clearance. <i>Journal of Biomechanics</i> , 2016, 49, 4016-4021.	0.9	14
150	Using smart garments to differentiate among normal and simulated abnormal gaits. <i>Journal of Biomechanics</i> , 2019, 93, 70-76.	0.9	14
151	Usability, User Acceptance, and Health Outcomes of Arm-Support Exoskeleton Use in Automotive Assembly. <i>Journal of Occupational and Environmental Medicine</i> , 2022, 64, 202-211.	0.9	14
152	Evaluation of artificial neural network modelling to predict torso muscle activity. <i>Ergonomics</i> , 1996, 39, 1430-1444.	1.1	13
153	Disturbance and recovery of trunk mechanical and neuromuscular behaviours following repetitive lifting: influences of flexion angle and lift rate on creep-induced effects. <i>Ergonomics</i> , 2013, 56, 954-963.	1.1	13
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