

William S Marras

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

221
papers

7,304
citations

44
h-index

80
g-index

227
ext. papers

7,934
ext. citations

2.5
avg, IF

5.82
L-index

#	Paper	IF	Citations
221	The role of dynamic three-dimensional trunk motion in occupationally-related low back disorders. The effects of workplace factors, trunk position, and trunk motion characteristics on risk of injury. <i>Spine</i> , 1993 , 18, 617-28	3.3	584
220	Biomechanical risk factors for occupationally related low back disorders. <i>Ergonomics</i> , 1995 , 38, 377-410	2.9	474
219	A strategy for human factors/ergonomics: developing the discipline and profession. <i>Ergonomics</i> , 2012 , 55, 377-95	2.9	462
218	Cost-benefit of muscle cocontraction in protecting against spinal instability. <i>Spine</i> , 2000 , 25, 1398-404	3.3	201
217	A Stochastic Model of Trunk Muscle Coactivation During Trunk Bending. <i>Spine</i> , 1993 , 18, 1396-1409	3.3	180
216	Occupational risk factors associated with soft tissue disorders of the shoulder: a review of recent investigations in the literature. <i>Ergonomics</i> , 1993 , 36, 697-717	2.9	173
215	Wrist motions in industry. <i>Ergonomics</i> , 1993 , 36, 341-51	2.9	168
214	A three-dimensional motion model of loads on the lumbar spine: I. Model structure. <i>Human Factors</i> , 1991 , 33, 123-37	3.8	167
213	The influence of psychosocial stress, gender, and personality on mechanical loading of the lumbar spine. <i>Spine</i> , 2000 , 25, 3045-54	3.3	165
212	Spine loading characteristics of patients with low back pain compared with asymptomatic individuals. <i>Spine</i> , 2001 , 26, 2566-74	3.3	146
211	A three-dimensional motion model of loads on the lumbar spine: II. Model validation. <i>Human Factors</i> , 1991 , 33, 139-49	3.8	138
210	The development of an EMG-assisted model to assess spine loading during whole-body free-dynamic lifting. <i>Journal of Electromyography and Kinesiology</i> , 1997 , 7, 259-268	2.5	128
209	The classification of anatomic- and symptom-based low back disorders using motion measure models. <i>Spine</i> , 1995 , 20, 2531-46	3.3	117
208	The impact of mental processing and pacing on spine loading: 2002 Volvo Award in biomechanics. <i>Spine</i> , 2002 , 27, 2645-53	3.3	107
207	Spine loading during asymmetric lifting using one versus two hands. <i>Ergonomics</i> , 1998 , 41, 817-34	2.9	103
206	Tolerance of the lumbar spine to shear: a review and recommended exposure limits. <i>Clinical Biomechanics</i> , 2012 , 27, 973-8	2.2	102
205	National occupational research agenda (NORA) future directions in occupational musculoskeletal disorder health research. <i>Applied Ergonomics</i> , 2009 , 40, 15-22	4.2	98

204	The quantification of low back disorder using motion measures. Methodology and validation. <i>Spine</i> , 1999 , 24, 2091-100	3.3	94
203	Spine loading in patients with low back pain during asymmetric lifting exertions. <i>Spine Journal</i> , 2004 , 4, 64-75	4	85
202	The effects of preview and task symmetry on trunk muscle response to sudden loading. <i>Human Factors</i> , 1989 , 31, 101-15	3.8	84
201	Spine loading at different lumbar levels during pushing and pulling. <i>Ergonomics</i> , 2009 , 52, 60-70	2.9	73
200	Towards an objective assessment of the "maximal voluntary contraction" component in routine muscle strength measurements. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1980 , 45, 1-9		73
199	An assessment of complex spinal loads during dynamic lifting tasks. <i>Spine</i> , 1998 , 23, 706-16	3.3	72
198	Biomechanical evaluation of exoskeleton use on loading of the lumbar spine. <i>Applied Ergonomics</i> , 2018 , 68, 101-108	4.2	68
197	Torso flexion loads and the fatigue failure of human lumbosacral motion segments. <i>Spine</i> , 2005 , 30, 2265-73	3.3	67
196	Evaluation of spinal loading during lowering and lifting. <i>Clinical Biomechanics</i> , 1998 , 13, 141-152	2.2	65
195	Industrial wrist motions and incidence of hand/wrist cumulative trauma disorders. <i>Ergonomics</i> , 1994 , 37, 1449-59	2.9	65
194	Changes in trunk dynamics and spine loading during repeated trunk exertions. <i>Spine</i> , 1997 , 22, 2564-70	3.3	64
193	The role of complex, simultaneous trunk motions in the risk of occupation-related low back disorders. <i>Spine</i> , 1998 , 23, 1035-42	3.3	64
192	Low back pain recurrence in occupational environments. <i>Spine</i> , 2007 , 32, 2387-97	3.3	61
191	Differences in motor recruitment and resulting kinematics between low back pain patients and asymptomatic participants during lifting exertions. <i>Clinical Biomechanics</i> , 2004 , 19, 992-9	2.2	61
190	Industrial electromyography (EMG). <i>International Journal of Industrial Ergonomics</i> , 1990 , 6, 89-93	2.9	60
189	Trunk strength during asymmetric trunk motion. <i>Human Factors</i> , 1989 , 31, 667-77	3.8	59
188	Quantitative dynamic measures of physical exposure predict low back functional impairment. <i>Spine</i> , 2010 , 35, 914-23	3.3	57
187	A neural network-based system for classification of industrial jobs with respect to risk of low back disorders due to workplace design. <i>Applied Ergonomics</i> , 1997 , 28, 49-58	4.2	53

186	A method for measuring external spinal loads during unconstrained free-dynamic lifting. <i>Journal of Biomechanics</i> , 1997 , 30, 975-8	2.9	53
185	Relation between spinal load factors and the high-risk probability of occupational low-back disorder. <i>Ergonomics</i> , 1999 , 42, 1187-99	2.9	52
184	Gender influences on spine loads during complex lifting. <i>Spine Journal</i> , 2003 , 3, 93-9	4	51
183	The effect of ergonomic interventions in healthcare facilities on musculoskeletal disorders. <i>American Journal of Industrial Medicine</i> , 2005 , 48, 338-47	2.7	47
182	Spine loading as a function of gender. <i>Spine</i> , 2002 , 27, 2514-20	3.3	47
181	Loading along the lumbar spine as influence by speed, control, load magnitude, and handle height during pushing. <i>Clinical Biomechanics</i> , 2009 , 24, 155-63	2.2	45
180	Assessment of the relationship between box weight and trunk kinematics: does a reduction in box weight necessarily correspond to a decrease in spinal loading?. <i>Human Factors</i> , 2000 , 42, 195-208	3.8	45
179	Simulift: a simulation model of human trunk motion. <i>Spine</i> , 1989 , 14, 5-11	3.3	45
178	Accuracy map of an optical motion capture system with 42 or 21 cameras in a large measurement volume. <i>Journal of Biomechanics</i> , 2017 , 58, 237-240	2.9	44
177	Effects of postural and visual stressors on myofascial trigger point development and motor unit rotation during computer work. <i>Journal of Electromyography and Kinesiology</i> , 2011 , 21, 41-8	2.5	44
176	Longitudinal quantitative measures of the natural course of low back pain recovery. <i>Spine</i> , 2000 , 25, 1950-6	3.6	44
175	Evaluation of maximal and submaximal static muscle exertions. <i>Human Factors</i> , 1981 , 23, 643-53	3.8	43
174	Shoulder muscle fatigue during repetitive tasks as measured by electromyography and near-infrared spectroscopy. <i>Human Factors</i> , 2013 , 55, 1077-87	3.8	40
173	Trunk kinematics of one-handed lifting, and the effects of asymmetry and load weight. <i>Ergonomics</i> , 1996 , 39, 322-34	2.9	40
172	Effects of handle angle and work orientation on hammering: I. Wrist motion and hammering performance. <i>Human Factors</i> , 1989 , 31, 397-411	3.8	40
171	Grip force and muscle activity differences due to glove type. <i>AIHA Journal: A Journal for the Science of Occupational and Environmental Health and Safety</i> , 2002 , 63, 269-74		39
170	A quantitative description of typing biomechanics. <i>Journal of Occupational Rehabilitation</i> , 1996 , 6, 33-55	3.6	39
169	Impairment magnification during dynamic trunk motions. <i>Spine</i> , 2000 , 25, 587-95	3.3	38

168	Evaluating the low back biomechanics of three different office workstations: Seated, standing, and perching. <i>Applied Ergonomics</i> , 2016 , 56, 170-8	4.2	38
167	Measuring trunk motions in industry: variability due to task factors, individual differences, and the amount of data collected. <i>Ergonomics</i> , 2000 , 43, 691-701	2.9	37
166	An EMG-assisted model calibration technique that does not require MVCs. <i>Journal of Electromyography and Kinesiology</i> , 2013 , 23, 608-13	2.5	36
165	Estimation of the dynamic spinal forces using a recurrent fuzzy neural network. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2007 , 37, 100-9		36
164	Neuromuscular Trunk Performance and Spinal Loading During a Fatiguing Isometric Trunk Extension with Varying Torque Requirements. <i>Journal of Spinal Disorders</i> , 1997 , 10, 145-156		35
163	A comparison of fatigue failure responses of old versus middle-aged lumbar motion segments in simulated flexed lifting. <i>Spine</i> , 2007 , 32, 1832-9	3.3	34
162	Finger motion, wrist motion and tendon travel as a function of keyboard angles. <i>Clinical Biomechanics</i> , 2000 , 15, 489-98	2.2	34
161	Reduction of spinal loading through the use of handles. <i>Ergonomics</i> , 1998 , 41, 1155-68	2.9	34
160	Quantitative biomechanical workplace exposure measures: distribution centers. <i>Journal of Electromyography and Kinesiology</i> , 2010 , 20, 813-22	2.5	33
159	The biochemical response to biomechanical tissue loading on the low back during physical work exposure. <i>Clinical Biomechanics</i> , 2011 , 26, 431-7	2.2	32
158	The complex spine: the multidimensional system of causal pathways for low-back disorders. <i>Human Factors</i> , 2012 , 54, 881-9	3.8	32
157	Lifting in stooped and kneeling postures: Effects on lifting capacity, metabolic costs, and electromyography of eight trunk muscles. <i>International Journal of Industrial Ergonomics</i> , 1988 , 3, 65-76	2.9	32
156	Effects of posture on dynamic back loading during a cable lifting task. <i>Ergonomics</i> , 2002 , 45, 380-98	2.9	31
155	2008,		31
154	Objective classification of vehicle seat discomfort. <i>Ergonomics</i> , 2014 , 57, 536-44	2.9	29
153	Partitioning the contributing role of biomechanical, psychosocial, and individual risk factors in the development of spine loads. <i>Spine Journal</i> , 2003 , 3, 331-8	4	29
152	Functional impairment as a predictor of spine loading. <i>Spine</i> , 2005 , 30, 729-37	3.3	29
151	Effects of handle angle and work orientation on hammering: II. Muscle fatigue and subjective ratings of body discomfort. <i>Human Factors</i> , 1989 , 31, 413-20	3.8	29

150	Impact of two postural assist exoskeletons on biomechanical loading of the lumbar spine. <i>Applied Ergonomics</i> , 2019 , 75, 1-7	4.2	29
149	Instrumentation for measuring dynamic spinal load moment exposures in the workplace. <i>Journal of Electromyography and Kinesiology</i> , 2010 , 20, 1-9	2.5	28
148	Effect of torso flexion on the lumbar torso extensor muscle sagittal plane moment arms. <i>Spine Journal</i> , 2003 , 3, 363-9	4	28
147	Workplace design guidelines for asymptomatic vs. low-back-injured workers. <i>Applied Ergonomics</i> , 2005 , 36, 85-95	4.2	28
146	A biologically-assisted curved muscle model of the lumbar spine: Model structure. <i>Clinical Biomechanics</i> , 2016 , 37, 53-59	2.2	27
145	Developing physical exposure-based back injury risk models applicable to manual handling jobs in distribution centers. <i>Journal of Occupational and Environmental Hygiene</i> , 2012 , 9, 450-9	2.9	26
144	Prevalence of low back pain, seeking medical care, and lost time due to low back pain among manual material handling workers in the United States. <i>BMC Musculoskeletal Disorders</i> , 2019 , 20, 243	2.8	25
143	A review of methods to assess coactivation in the spine. <i>Journal of Electromyography and Kinesiology</i> , 2017 , 32, 51-60	2.5	24
142	Spine loading and probability of low back disorder risk as a function of box location on a pallet. <i>Human Factors and Ergonomics in Manufacturing</i> , 1997 , 7, 323-336	1.4	24
141	Biomechanical aspects of work-related musculoskeletal disorders. <i>Theoretical Issues in Ergonomics Science</i> , 2001 , 2, 153-217	2.2	24
140	The effects of a temporal warning signal on the biomechanical preparations for sudden loading. <i>Journal of Electromyography and Kinesiology</i> , 1995 , 5, 45-56	2.5	24
139	MR Elastography-derived Stiffness: A Biomarker for Intervertebral Disc Degeneration. <i>Radiology</i> , 2017 , 285, 167-175	20.5	23
138	Dynamic capabilities of the wrist joint in industrial workers. <i>International Journal of Industrial Ergonomics</i> , 1993 , 11, 207-224	2.9	23
137	Trunk force development during static and dynamic lifts. <i>Human Factors</i> , 1987 , 29, 19-29	3.8	23
136	Cumulative spine loading and clinically meaningful declines in low-back function. <i>Human Factors</i> , 2014 , 56, 29-43	3.8	22
135	Dynamic biomechanical modelling of symmetric and asymmetric lifting tasks in restricted postures. <i>Ergonomics</i> , 1994 , 37, 1289-310	2.9	22
134	Identification of Key Variables Using Fuzzy Average With Fuzzy Cluster Distribution. <i>IEEE Transactions on Fuzzy Systems</i> , 2007 , 15, 673-685	8.3	21
133	The influence of lift frequency, lift duration and work experience on discomfort reporting. <i>Ergonomics</i> , 2007 , 50, 396-409	2.9	21

132	An exploratory study of loading and morphometric factors associated with specific failure modes in fatigue testing of lumbar motion segments. <i>Clinical Biomechanics</i> , 2006 , 21, 228-34	2.2	21
131	A neuro-fuzzy model for estimating electromyographical activity of trunk muscles due to manual lifting. <i>Ergonomics</i> , 2003 , 46, 285-309	2.9	21
130	Localized oxygen use of healthy and low back pain individuals during controlled trunk movements. <i>Journal of Spinal Disorders</i> , 2001 , 14, 150-8		20
129	Significance of biomechanical and physiological variables during the determination of maximum acceptable weight of lift. <i>Ergonomics</i> , 1999 , 42, 1216-32	2.9	20
128	A biologically-assisted curved muscle model of the lumbar spine: Model validation. <i>Clinical Biomechanics</i> , 2016 , 37, 153-159	2.2	19
127	An investigation of perceived exertion via whole body exertion and direct muscle force indicators during the determination of the maximum acceptable weight of lift. <i>Ergonomics</i> , 2000 , 43, 143-59	2.9	19
126	Biomechanical, psychosocial and individual risk factors predicting low back functional impairment among furniture distribution employees. <i>Clinical Biomechanics</i> , 2012 , 27, 117-23	2.2	18
125	Musculoskeletal disorder risk during automotive assembly: current vs. seated. <i>Applied Ergonomics</i> , 2012 , 43, 671-8	4.2	18
124	Regression models for predicting peak and continuous three-dimensional spinal loads during symmetric and asymmetric lifting tasks. <i>Human Factors</i> , 1999 , 41, 373-88	3.8	18
123	Spinal loading during manual materials handling in a kneeling posture. <i>Journal of Electromyography and Kinesiology</i> , 2007 , 17, 25-34	2.5	17
122	A biomechanical and physiological study of office seat and tablet device interaction. <i>Applied Ergonomics</i> , 2017 , 62, 83-93	4.2	16
121	Changes in spine loading patterns throughout the workday as a function of experience, lift frequency, and personality. <i>Spine Journal</i> , 2006 , 6, 296-305	4	16
120	Effect of electromyogram-force relationships and method of gain estimation on the predictions of an electromyogram-driven model of spinal loading. <i>Spine</i> , 1998 , 23, 423-9	3.3	16
119	An ergonomic comparison of industrial spray paint guns. <i>International Journal of Industrial Ergonomics</i> , 1997 , 19, 425-435	2.9	15
118	Baggage handling in an airplane cargo hold: An ergonomic intervention study. <i>International Journal of Industrial Ergonomics</i> , 2006 , 36, 301-312	2.9	15
117	Revised protocol for the kinematic assessment of impairment. <i>Spine Journal</i> , 2004 , 4, 163-9	4	15
116	An evaluation of tool design and method of use of railroad leverage tools on back stress and tool performance. <i>Human Factors</i> , 1986 , 28, 303-15	3.8	15
115	Biomechanically-determined hand force limits protecting the low back during occupational pushing and pulling tasks. <i>Ergonomics</i> , 2018 , 61, 853-865	2.9	15

114	Quantification of a meaningful change in low back functional impairment. <i>Spine</i> , 2009 , 34, 2060-5	3.3	14
113	The effects of work experience, lift frequency and exposure duration on low back muscle oxygenation. <i>Clinical Biomechanics</i> , 2007 , 22, 21-7	2.2	14
112	The influence of individual low back health status on workplace trunk kinematics and risk of low back disorder. <i>Ergonomics</i> , 2004 , 47, 1226-37	2.9	14
111	Spine loading during the application and removal of lifting slings: the effects of patient weight, bed height and work method. <i>Ergonomics</i> , 2017 , 60, 636-648	2.9	13
110	Investigating reduced bag weight as an effective risk mediator for mason tenders. <i>Applied Ergonomics</i> , 2010 , 41, 822-31	4.2	13
109	Diurnal Variation in Trunk Kinematics During a Typical Work Shift. <i>Journal of Spinal Disorders</i> , 1995 , 8, 2077-25		13
108	An Experimental Evaluation of Method and Tool Effects in Spike Maul Use. <i>Human Factors</i> , 1986 , 28, 267-281	3.8	13
107	Curved muscles in biomechanical models of the spine: a systematic literature review. <i>Ergonomics</i> , 2017 , 60, 577-588	2.9	12
106	The use of turnover rate as a passive surveillance indicator for potential low back disorders. <i>Ergonomics</i> , 1994 , 37, 971-8	2.9	12
105	Development and testing of a moment-based coactivation index to assess complex dynamic tasks for the lumbar spine. <i>Clinical Biomechanics</i> , 2017 , 46, 23-32	2.2	11
104	Association between spinal loads and the psychophysical determination of maximum acceptable force during pushing tasks. <i>Ergonomics</i> , 2012 , 55, 1104-14	2.9	11
103	Sagittal plane moment arms of the female lumbar region rectus abdominis in an upright neutral torso posture. <i>Clinical Biomechanics</i> , 2005 , 20, 242-6	2.2	11
102	Observations on the Relationship Between Key Strike Force and Typing Speed. <i>AIHA Journal</i> , 1996 , 57, 1109-1114		11
101	Prediction of magnetic resonance imaging-derived trunk muscle geometry with application to spine biomechanical modeling. <i>Clinical Biomechanics</i> , 2016 , 37, 60-64	2.2	10
100	Biomechanical musculoskeletal models of the cervical spine: A systematic literature review. <i>Clinical Biomechanics</i> , 2020 , 71, 115-124	2.2	10
99	Immune responses to low back pain risk factors. <i>Work</i> , 2012 , 41 Suppl 1, 6016-23	1.6	9
98	Does personality affect the risk of developing musculoskeletal discomfort?. <i>Theoretical Issues in Ergonomics Science</i> , 2006 , 7, 149-167	2.2	9
97	Spine biomechanics, government regulation, and prevention of occupational low back pain. <i>Spine Journal</i> , 2001 , 1, 163-5	4	9

96	Temporal patterns of trunk muscle activity throughout a dynamic, asymmetric lifting motion. <i>Human Factors</i> , 1992 , 34, 215-30	3.8	9
95	The Contribution of Biomechanical-Biological Interactions of the Spine to Low Back Pain. <i>Human Factors</i> , 2016 , 58, 965-975	3.8	8
94	Use of a personalized hybrid biomechanical model to assess change in lumbar spine function with a TDR compared to an intact spine. <i>European Spine Journal</i> , 2012 , 21 Suppl 5, S641-52	2.7	8
93	The effect of complex dynamic lifting and lowering characteristics on trunk muscles recruitment. <i>Journal of Occupational Rehabilitation</i> , 1997 , 7, 121-138	3.6	8
92	Predicting recovery using continuous low back pain outcome measures. <i>Spine Journal</i> , 2001 , 1, 57-65	4	8
91	Quantification of Wrist Motions during Scanning. <i>Human Factors</i> , 1995 , 37, 412-423	3.8	7
90	Validation of a personalized curved muscle model of the lumbar spine during complex dynamic exertions. <i>Journal of Electromyography and Kinesiology</i> , 2017 , 33, 1-9	2.5	6
89	Weight knowledge and weight magnitude: impact on lumbosacral loading. <i>Ergonomics</i> , 2015 , 58, 227-342.9	2.9	6
88	Differences among outcome measures in occupational low back pain. <i>Journal of Occupational Rehabilitation</i> , 2005 , 15, 329-41	3.6	6
87	Overview of Electromyography in Ergonomics. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2000 , 44, 5-534-5-536	0.4	6
86	Lumbar motion response to a constant load velocity lift. <i>Human Factors</i> , 1990 , 32, 493-501	3.8	6
85	Risks of hand tool injury in U.S. underground mining from 1978 through 1983 part I: coal mining. <i>Journal of Safety Research</i> , 1988 , 19, 71-85	4	6
84	Wheelchair pushing and turning: lumbar spine and shoulder loads and recommended limits. <i>Ergonomics</i> , 2017 , 60, 1754-1765	2.9	5
83	Effectiveness of a vacuum lifting system in reducing spinal load during airline baggage handling. <i>Applied Ergonomics</i> , 2018 , 70, 247-252	4.2	5
82	Are workers who leave a job exposed to similar physical demands as workers who develop clinically meaningful declines in low-back function?. <i>Human Factors</i> , 2014 , 56, 58-72	3.8	5
81	Biomechanical Modeling. <i>Reviews of Human Factors and Ergonomics</i> , 2005 , 1, 1-88		5
80	Risks of hand tool injury in U.S. underground mining from 1978 through 1983 part II: Metal-nonmetal mining. <i>Journal of Safety Research</i> , 1988 , 19, 115-124	4	5
79	Neural and biomechanical tradeoffs associated with human-exoskeleton interactions. <i>Applied Ergonomics</i> , 2021 , 96, 103494	4.2	5

78	A Hybrid Neuro-fuzzy Approach for Spinal Force Evaluation in Manual Materials Handling Tasks. <i>Lecture Notes in Computer Science</i> , 2005 , 1216-1225	0.9	5
77	Development of a lumbar EMG-based coactivation index for the assessment of complex dynamic tasks. <i>Ergonomics</i> , 2018 , 61, 381-389	2.9	4
76	Work-Related Upper Extremity Musculoskeletal Disorders 2012 , 826-867		4
75	Psychosocial Factors and Low Back Pain Outcomes in a Pooled Analysis of Low Back Pain Studies. <i>Journal of Occupational and Environmental Medicine</i> , 2020 , 62, 810-815	2	4
74	An electromyography-assisted biomechanical cervical spine model: Model development and validation. <i>Clinical Biomechanics</i> , 2020 , 80, 105169	2.2	4
73	Spine kinematics predict symptom and lost time recurrence: how much recovery is enough?. <i>Journal of Occupational Rehabilitation</i> , 2013 , 23, 329-35	3.6	3
72	Basic Biomechanics and Workstation Design 2012 , 347-381		3
71	Influence of lift moment in determining MAWL. <i>Human Factors</i> , 1997 , 39, 312-22	3.8	3
70	Relation between Biomechanical Spinal Load Factors and Risk of Occupational Low-Back Disorders. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 1996 , 40, 656-660	0.4	3
69	The Effects of Human Interface Design on Wrist Biomechanics during Scanning. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 1994 , 38, 616-620	0.4	3
68	Biomechanics of the Spinal Motion Segment 2011 , 109-128		3
67	A biomechanical evaluation of potential ergonomic solutions for use by firefighter and EMS providers when lifting heavy patients in their homes. <i>Applied Ergonomics</i> , 2020 , 82, 102910	4.2	3
66	Postoperative Stereotactic Body Radiotherapy for Spinal Metastasis and Predictors of Local Control. <i>Neurosurgery</i> , 2021 , 88, 1021-1027	3.2	3
65	An Exploratory Electromyography-Based Coactivation Index for the Cervical Spine. <i>Human Factors</i> , 2018 , 60, 68-79	3.8	3
64	One versus two-handed lifting and lowering: lumbar spine loads and recommended one-handed limits protecting the lower back. <i>Ergonomics</i> , 2020 , 63, 505-521	2.9	2
63	A nonlinear contact algorithm predicting facet joint contribution in the lumbar spine of a specific person. <i>Theoretical Issues in Ergonomics Science</i> , 2012 , 13, 303-317	2.2	2
62	Response to the commentary Q a question of our marketing or our preconceptionsQ <i>Ergonomics</i> , 2012 , 55, 1618-20	2.9	2
61	Mechanical Power-Drive Reduces the Stress on the Back. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2011 , 55, 984-987	0.4	2

60	Shoulder Muscle Oxygenation during Repetitive Tasks. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2011 , 55, 1039-1041	0.4	2
59	The Effects of Box Differences and Employee Job Experience on Trunk Kinematics & Low Back Injury Risk during Depalletizing Operations. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 1996 , 40, 651-655	0.4	2
58	Utilization of a Hybrid Neuro-Fuzzy Engine to Predict Trunk Muscle Activity for Sagittal Lifting. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2008 , 52, 1064-1067	0.4	2
57	The Relationship between Occupational Musculoskeletal Discomfort and Workplace, Personal, and Trunk Kinematic Factors. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 1998 , 42, 896-900	0.4	2
56	Three-Dimensional Functional Capacity of Normals and Low Back Pain Patients. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 1996 , 40, 737-741	0.4	2
55	Distributions of Job Physical Exposure Data in a Pooled Study of Low Back Pain Prospective Cohorts. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2018 , 62, 920-924	0.4	2
54	Application of MR-derived cross-sectional guideline of cervical spine muscles to validate neck surface electromyography placement. <i>Journal of Electromyography and Kinesiology</i> , 2018 , 43, 127-139	2.5	2
53	A physiological and biomechanical investigation of three passive upper-extremity exoskeletons during simulated overhead work. <i>Ergonomics</i> , 2021 , 1-13	2.9	2
52	Low back functional health status of patient handlers. <i>Journal of Occupational Rehabilitation</i> , 2015 , 25, 296-302	3.6	1
51	Spinal loading and lift style in confined vertical space. <i>Applied Ergonomics</i> , 2020 , 84, 103021	4.2	1
50	Assessment of a rabbit posterolateral spinal fusion using movement between vertebrae: a modification of the palpation exam for quantifying fusions. <i>Journal of Spine Surgery</i> , 2019 , 5, 215-222	2.5	1
49	A Simple Model of Changes in Lumbar Intervertebral Angles During Sagittal Torso Flexion. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2011 , 55, 1029-1033	0.4	1
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