

# William S Marras

## List of Publications by Year in Descending Order

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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	Patient handling through moving of the beds and stretchers. <i>International Journal of Industrial Ergonomics</i> , <b>2022</b> , 87, 103252	2.9	1
220	A Digital Twin for Simulating the Vertebroplasty Procedure and its Impact on Mechanical Stability of Vertebra in Cancer Patients.. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , <b>2022</b> , e3600	2.6	0
219	Towards an AI-Assisted Framework for Reconstructing the Digital Twin of Vertebra and Predicting its Fracture Response.. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , <b>2022</b> , e3601 <sup>2,6</sup>	2.6	1
218	Motion sickness decreases low back function and changes gene expression in military aircrew. <i>Clinical Biomechanics</i> , <b>2022</b> , 96, 105671	2.2	1
217	Dynamic Joint Motions in Occupational Environments as Indicators of Potential Musculoskeletal Injury Risk. <i>Journal of Applied Biomechanics</i> , <b>2021</b> , 37, 196-203	1.2	1
216	Postoperative Stereotactic Body Radiotherapy for Spinal Metastasis and Predictors of Local Control. <i>Neurosurgery</i> , <b>2021</b> , 88, 1021-1027	3.2	3
215	BASIC BIOMECHANICS AND WORKPLACE DESIGN <b>2021</b> , 303-357		1
214	MANAGING LOW-BACK DISORDER RISK IN THE WORKPLACE <b>2021</b> , 597-629		
213	A physiological and biomechanical investigation of three passive upper-extremity exoskeletons during simulated overhead work. <i>Ergonomics</i> , <b>2021</b> , 1-13	2.9	2
212	Neural and biomechanical tradeoffs associated with human-exoskeleton interactions. <i>Applied Ergonomics</i> , <b>2021</b> , 96, 103494	4.2	5
211	One versus two-handed lifting and lowering: lumbar spine loads and recommended one-handed limits protecting the lower back. <i>Ergonomics</i> , <b>2020</b> , 63, 505-521	2.9	2
210	Spinal loading and lift style in confined vertical space. <i>Applied Ergonomics</i> , <b>2020</b> , 84, 103021	4.2	1
209	Neural Efficiency of Human-Exoskeleton Interactions during Asymmetrical Manual Handling Tasks. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2020</b> , 64, 884-884	0.4	
208	Survey of One-handed Lifting in Manufacturing Industry: A Cross-sectional Study of the BackWorks Study Cohort. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2020</b> , 64, 942-946	0.4	
207	Biomechanical musculoskeletal models of the cervical spine: A systematic literature review. <i>Clinical Biomechanics</i> , <b>2020</b> , 71, 115-124	2.2	10
206	Psychosocial Factors and Low Back Pain Outcomes in a Pooled Analysis of Low Back Pain Studies. <i>Journal of Occupational and Environmental Medicine</i> , <b>2020</b> , 62, 810-815	2	4
205	Comparison of push/pull force estimates using a single-axis gauge versus a three-dimensional hand transducer. <i>Applied Ergonomics</i> , <b>2020</b> , 88, 103184	4.2	1

204	An electromyography-assisted biomechanical cervical spine model: Model development and validation. <i>Clinical Biomechanics</i> , <b>2020</b> , 80, 105169	2.2	4
203	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> , <b>2020</b> , 82, 102910	4.2	3
202	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> , <b>2019</b> , 20, 243	2.8	25
201	Patient and practitioner experience with clinical lumbar motion monitor wearable technology. <i>Health and Technology</i> , <b>2019</b> , 9, 289-295	2.1	0
200	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> , <b>2019</b> , 5, 215-222	2.5	1
199	Spinal Loading During One and Two-Handed Lifting. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2019</b> , 63, 1126-1127	0.4	
198	A Comparison Of Spinal Loads While Lifting In Confined Vertical Space. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2019</b> , 63, 1130-1131	0.4	
197	Lifting Heavy Patients in their Homes: A biomechanical study of equipment that can be used by EMS providers. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2019</b> , 63, 984-986	0.4	
196	Impact of two postural assist exoskeletons on biomechanical loading of the lumbar spine. <i>Applied Ergonomics</i> , <b>2019</b> , 75, 1-7	4.2	29
195	Effectiveness of a vacuum lifting system in reducing spinal load during airline baggage handling. <i>Applied Ergonomics</i> , <b>2018</b> , 70, 247-252	4.2	5
194	Development of a lumbar EMG-based coactivation index for the assessment of complex dynamic tasks. <i>Ergonomics</i> , <b>2018</b> , 61, 381-389	2.9	4
193	An Exploratory Electromyography-Based Coactivation Index for the Cervical Spine. <i>Human Factors</i> , <b>2018</b> , 60, 68-79	3.8	3
192	Biomechanically-determined hand force limits protecting the low back during occupational pushing and pulling tasks. <i>Ergonomics</i> , <b>2018</b> , 61, 853-865	2.9	15
191	Biomechanical evaluation of exoskeleton use on loading of the lumbar spine. <i>Applied Ergonomics</i> , <b>2018</b> , 68, 101-108	4.2	68
190	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> , <b>2018</b> , 62, 920-924	0.4	2
189	Application of MR-derived cross-sectional guideline of cervical spine muscles to validate neck surface electromyography placement. <i>Journal of Electromyography and Kinesiology</i> , <b>2018</b> , 43, 127-139	2.5	2
188	Curved muscles in biomechanical models of the spine: a systematic literature review. <i>Ergonomics</i> , <b>2017</b> , 60, 577-588	2.9	12
187	Validation of a personalized curved muscle model of the lumbar spine during complex dynamic exertions. <i>Journal of Electromyography and Kinesiology</i> , <b>2017</b> , 33, 1-9	2.5	6

186	A biomechanical and physiological study of office seat and tablet device interaction. <i>Applied Ergonomics</i> , <b>2017</b> , 62, 83-93	4.2	16
185	Development and testing of a moment-based coactivation index to assess complex dynamic tasks for the lumbar spine. <i>Clinical Biomechanics</i> , <b>2017</b> , 46, 23-32	2.2	11
184	MR Elastography-derived Stiffness: A Biomarker for Intervertebral Disc Degeneration. <i>Radiology</i> , <b>2017</b> , 285, 167-175	20.5	23
183	Accuracy map of an optical motion capture system with 42 or 21 cameras in a large measurement volume. <i>Journal of Biomechanics</i> , <b>2017</b> , 58, 237-240	2.9	44
182	Wheelchair pushing and turning: lumbar spine and shoulder loads and recommended limits. <i>Ergonomics</i> , <b>2017</b> , 60, 1754-1765	2.9	5
181	A review of methods to assess coactivation in the spine. <i>Journal of Electromyography and Kinesiology</i> , <b>2017</b> , 32, 51-60	2.5	24
180	Biomechanically-Determined Guidelines for Occupational Pushing and Pulling. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2017</b> , 61, 914-915	0.4	
179	Spine loading during the application and removal of lifting slings: the effects of patient weight, bed height and work method. <i>Ergonomics</i> , <b>2017</b> , 60, 636-648	2.9	13
178	A biologically-assisted curved muscle model of the lumbar spine: Model validation. <i>Clinical Biomechanics</i> , <b>2016</b> , 37, 153-159	2.2	19
177	The Contribution of Biomechanical-Biological Interactions of the Spine to Low Back Pain. <i>Human Factors</i> , <b>2016</b> , 58, 965-975	3.8	8
176	Prediction of magnetic resonance imaging-derived trunk muscle geometry with application to spine biomechanical modeling. <i>Clinical Biomechanics</i> , <b>2016</b> , 37, 60-64	2.2	10
175	A biologically-assisted curved muscle model of the lumbar spine: Model structure. <i>Clinical Biomechanics</i> , <b>2016</b> , 37, 53-59	2.2	27
174	Evaluating the low back biomechanics of three different office workstations: Seated, standing, and perching. <i>Applied Ergonomics</i> , <b>2016</b> , 56, 170-8	4.2	38
173	Biomechanical patterns of text-message distraction. <i>Ergonomics</i> , <b>2015</b> , 58, 1690-700	2.9	
172	Low back functional health status of patient handlers. <i>Journal of Occupational Rehabilitation</i> , <b>2015</b> , 25, 296-302	3.6	1
171	Weight knowledge and weight magnitude: impact on lumbosacral loading. <i>Ergonomics</i> , <b>2015</b> , 58, 227-34	2.9	6
170	Objective classification of vehicle seat discomfort. <i>Ergonomics</i> , <b>2014</b> , 57, 536-44	2.9	29
169	Cumulative spine loading and clinically meaningful declines in low-back function. <i>Human Factors</i> , <b>2014</b> , 56, 29-43	3.8	22

168	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> , <b>2014</b> , 56, 58-72	3.8	5
167	Spine kinematics predict symptom and lost time recurrence: how much recovery is enough?. <i>Journal of Occupational Rehabilitation</i> , <b>2013</b> , 23, 329-35	3.6	3
166	Shoulder muscle fatigue during repetitive tasks as measured by electromyography and near-infrared spectroscopy. <i>Human Factors</i> , <b>2013</b> , 55, 1077-87	3.8	40
165	An EMG-assisted model calibration technique that does not require MVCs. <i>Journal of Electromyography and Kinesiology</i> , <b>2013</b> , 23, 608-13	2.5	36
164	Tolerance of the lumbar spine to shear: a review and recommended exposure limits. <i>Clinical Biomechanics</i> , <b>2012</b> , 27, 973-8	2.2	102
163	A strategy for human factors/ergonomics: developing the discipline and profession. <i>Ergonomics</i> , <b>2012</b> , 55, 377-95	2.9	462
162	Association between spinal loads and the psychophysical determination of maximum acceptable force during pushing tasks. <i>Ergonomics</i> , <b>2012</b> , 55, 1104-14	2.9	11
161	A nonlinear contact algorithm predicting facet joint contribution in the lumbar spine of a specific person. <i>Theoretical Issues in Ergonomics Science</i> , <b>2012</b> , 13, 303-317	2.2	2
160	Response to the commentary Q a question of our marketing or our preconceptionsQ <i>Ergonomics</i> , <b>2012</b> , 55, 1618-20	2.9	2
159	Biomechanical, psychosocial and individual risk factors predicting low back functional impairment among furniture distribution employees. <i>Clinical Biomechanics</i> , <b>2012</b> , 27, 117-23	2.2	18
158	Basic Biomechanics and Workstation Design <b>2012</b> , 347-381		3
157	Managing Low-Back Disorder Risk in the Workplace <b>2012</b> , 801-825		
156	Work-Related Upper Extremity Musculoskeletal Disorders <b>2012</b> , 826-867		4
155	Immune responses to low back pain risk factors. <i>Work</i> , <b>2012</b> , 41 Suppl 1, 6016-23	1.6	9
154	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> , <b>2012</b> , 21 Suppl 5, S641-52	2.7	8
153	Musculoskeletal disorder risk during automotive assembly: current vs. seated. <i>Applied Ergonomics</i> , <b>2012</b> , 43, 671-8	4.2	18
152	Developing physical exposure-based back injury risk models applicable to manual handling jobs in distribution centers. <i>Journal of Occupational and Environmental Hygiene</i> , <b>2012</b> , 9, 450-9	2.9	26
151	Multidisciplinary Concepts in Ergonomic Design and Individual Differences in Performance. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2012</b> , 56, 1034-1038	0.4	

150	The complex spine: the multidimensional system of causal pathways for low-back disorders. <i>Human Factors</i> , <b>2012</b> , 54, 881-9	3.8	32
149	The biochemical response to biomechanical tissue loading on the low back during physical work exposure. <i>Clinical Biomechanics</i> , <b>2011</b> , 26, 431-7	2.2	32
148	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> , <b>2011</b> , 21, 41-8	2.5	44
147	Mechanical Power-Drive Reduces the Stress on the Back. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2011</b> , 55, 984-987	0.4	2
146	A Simple Model of Changes in Lumbar Intervertebral Angles During Sagittal Torso Flexion. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2011</b> , 55, 1029-1033	0.4	1
145	Spinal Loading and Immune Responses to Personality and Mental Load During Repetitive Lifting. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2011</b> , 55, 1034-1038	0.4	
144	Shoulder Muscle Oxygenation during Repetitive Tasks. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2011</b> , 55, 1039-1041	0.4	2
143	Biomechanics of the Spinal Motion Segment <b>2011</b> , 109-128		3
142	Instrumentation for measuring dynamic spinal load moment exposures in the workplace. <i>Journal of Electromyography and Kinesiology</i> , <b>2010</b> , 20, 1-9	2.5	28
141	Quantitative biomechanical workplace exposure measures: distribution centers. <i>Journal of Electromyography and Kinesiology</i> , <b>2010</b> , 20, 813-22	2.5	33
140	Quantitative dynamic measures of physical exposure predict low back functional impairment. <i>Spine</i> , <b>2010</b> , 35, 914-23	3.3	57
139	The Economic Impact of Integrating Ergonomics within an Automotive Production Facility <b>2010</b> , 267-285		
138	Investigating reduced bag weight as an effective risk mediator for mason tenders. <i>Applied Ergonomics</i> , <b>2010</b> , 41, 822-31	4.2	13
137	Dynamic Load Moment Exposure and Spine Function Impairment. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2009</b> , 53, 879-881	0.4	
136	Musculoskeletal Disorder Risk Associated with Auto Rotation Angle during an Assembly Task. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2009</b> , 53, 874-878	0.4	
135	National occupational research agenda (NORA) future directions in occupational musculoskeletal disorder health research. <i>Applied Ergonomics</i> , <b>2009</b> , 40, 15-22	4.2	98
134	Spine loading at different lumbar levels during pushing and pulling. <i>Ergonomics</i> , <b>2009</b> , 52, 60-70	2.9	73
133	Loading along the lumbar spine as influence by speed, control, load magnitude, and handle height during pushing. <i>Clinical Biomechanics</i> , <b>2009</b> , 24, 155-63	2.2	45

132	Quantification of a meaningful change in low back functional impairment. <i>Spine</i> , <b>2009</b> , 34, 2060-5	3.3	14
131	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> , <b>2008</b> , 52, 1064-1067	0.4	2
130	Prevalence of Low Back Disorders in Furniture Distribution Centers. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2008</b> , 52, 1068-1072	0.4	
129	Box Weight or Lift Rate: Which Factor Matters More during Lifting?. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2008</b> , 52, 1054-1058	0.4	
128	A critical review of a pivotal scientific contribution: Liles and associates 24 years later. <i>Human Factors</i> , <b>2008</b> , 50, 393-6	3.8	1
127	<b>2008</b> ,		31
126	Identification of Key Variables Using Fuzzy Average With Fuzzy Cluster Distribution. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2007</b> , 15, 673-685	8.3	21
125	The influence of lift frequency, lift duration and work experience on discomfort reporting. <i>Ergonomics</i> , <b>2007</b> , 50, 396-409	2.9	21
124	A comparison of fatigue failure responses of old versus middle-aged lumbar motion segments in simulated flexed lifting. <i>Spine</i> , <b>2007</b> , 32, 1832-9	3.3	34
123	Low back pain recurrence in occupational environments. <i>Spine</i> , <b>2007</b> , 32, 2387-97	3.3	61
122	Differences between Lifting and Lowering Manual Material Handling Tasks in Distribution Centers. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2007</b> , 51, 943-946	0.4	
121	The effects of work experience, lift frequency and exposure duration on low back muscle oxygenation. <i>Clinical Biomechanics</i> , <b>2007</b> , 22, 21-7	2.2	14
120	Spinal loading during manual materials handling in a kneeling posture. <i>Journal of Electromyography and Kinesiology</i> , <b>2007</b> , 17, 25-34	2.5	17
119	Estimation of the dynamic spinal forces using a recurrent fuzzy neural network. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2007</b> , 37, 100-9		36
118	Changes in spine loading patterns throughout the workday as a function of experience, lift frequency, and personality. <i>Spine Journal</i> , <b>2006</b> , 6, 296-305	4	16
117	Does personality affect the risk of developing musculoskeletal discomfort?. <i>Theoretical Issues in Ergonomics Science</i> , <b>2006</b> , 7, 149-167	2.2	9
116	An exploratory study of loading and morphometric factors associated with specific failure modes in fatigue testing of lumbar motion segments. <i>Clinical Biomechanics</i> , <b>2006</b> , 21, 228-34	2.2	21
115	Baggage handling in an airplane cargo hold: An ergonomic intervention study. <i>International Journal of Industrial Ergonomics</i> , <b>2006</b> , 36, 301-312	2.9	15

114	Sagittal plane moment arms of the female lumbar region rectus abdominis in an upright neutral torso posture. <i>Clinical Biomechanics</i> , <b>2005</b> , 20, 242-6	2.2	11
113	Torso flexion loads and the fatigue failure of human lumbosacral motion segments. <i>Spine</i> , <b>2005</b> , 30, 2265-33	3.3	67
112	Functional impairment as a predictor of spine loading. <i>Spine</i> , <b>2005</b> , 30, 729-37	3.3	29
111	The effect of ergonomic interventions in healthcare facilities on musculoskeletal disorders. <i>American Journal of Industrial Medicine</i> , <b>2005</b> , 48, 338-47	2.7	47
110	Workplace design guidelines for asymptomatic vs. low-back-injured workers. <i>Applied Ergonomics</i> , <b>2005</b> , 36, 85-95	4.2	28
109	Differences among outcome measures in occupational low back pain. <i>Journal of Occupational Rehabilitation</i> , <b>2005</b> , 15, 329-41	3.6	6
108	Biomechanical Modeling. <i>Reviews of Human Factors and Ergonomics</i> , <b>2005</b> , 1, 1-88		5
107	A Hybrid Neuro-fuzzy Approach for Spinal Force Evaluation in Manual Materials Handling Tasks. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 1216-1225	0.9	5
106	The influence of individual low back health status on workplace trunk kinematics and risk of low back disorder. <i>Ergonomics</i> , <b>2004</b> , 47, 1226-37	2.9	14
105	Spine loading in patients with low back pain during asymmetric lifting exertions. <i>Spine Journal</i> , <b>2004</b> , 4, 64-75	4	85
104	Revised protocol for the kinematic assessment of impairment. <i>Spine Journal</i> , <b>2004</b> , 4, 163-9	4	15
103	Differences in motor recruitment and resulting kinematics between low back pain patients and asymptomatic participants during lifting exertions. <i>Clinical Biomechanics</i> , <b>2004</b> , 19, 992-9	2.2	61
102	Compression and Shear Loads on Lumbar Spine Motion Segments in Neutral and Flexed Postures. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2003</b> , 47, 1303-1307	0.4	
101	Gender influences on spine loads during complex lifting. <i>Spine Journal</i> , <b>2003</b> , 3, 93-9	4	51
100	Partitioning the contributing role of biomechanical, psychosocial, and individual risk factors in the development of spine loads. <i>Spine Journal</i> , <b>2003</b> , 3, 331-8	4	29
99	Effect of torso flexion on the lumbar torso extensor muscle sagittal plane moment arms. <i>Spine Journal</i> , <b>2003</b> , 3, 363-9	4	28
98	Importance of Ergonomics for the Aging Worker. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2003</b> , 47, 1213-1215	0.4	
97	Estimation of EMG Activity of Trunk Muscles in Manual Lifting Tasks Based on Trunk Dynamics Using the Fuzzy Relational Rule Network. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2003</b> , 47, 1208-1212	0.4	



96	A neuro-fuzzy model for estimating electromyographical activity of trunk muscles due to manual lifting. <i>Ergonomics</i> , <b>2003</b> , 46, 285-309	2.9	21
95	Effects of posture on dynamic back loading during a cable lifting task. <i>Ergonomics</i> , <b>2002</b> , 45, 380-98	2.9	31
94	Effects of Load and Posture on the Recruitment of Trunk Muscles. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2002</b> , 46, 1071-1075	0.4	
93	The Effect of a Variable Lumbar Erector Spinae Sagittal Plane Moment Arm on Predicted Spinal Loading. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2002</b> , 46, 1061-1065	0.4	
92	Spine loading as a function of gender. <i>Spine</i> , <b>2002</b> , 27, 2514-20	3.3	47
91	The impact of mental processing and pacing on spine loading: 2002 Volvo Award in biomechanics. <i>Spine</i> , <b>2002</b> , 27, 2645-53	3.3	107
90	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> , <b>2002</b> , 63, 269-74		39
89	Gender Differences in the Risk of Occupational Low Back Disorders. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2001</b> , 45, 1054-1058	0.4	
88	Predicting recovery using continuous low back pain outcome measures. <i>Spine Journal</i> , <b>2001</b> , 1, 57-65	4	8
87	Spine biomechanics, government regulation, and prevention of occupational low back pain. <i>Spine Journal</i> , <b>2001</b> , 1, 163-5	4	9
86	Biomechanical aspects of work-related musculoskeletal disorders. <i>Theoretical Issues in Ergonomics Science</i> , <b>2001</b> , 2, 153-217	2.2	24
85	Spine loading characteristics of patients with low back pain compared with asymptomatic individuals. <i>Spine</i> , <b>2001</b> , 26, 2566-74	3.3	146
84	Localized oxygen use of healthy and low back pain individuals during controlled trunk movements. <i>Journal of Spinal Disorders</i> , <b>2001</b> , 14, 150-8		20
83	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> , <b>2000</b> , 42, 195-208	3.8	45
82	Cost-benefit of muscle cocontraction in protecting against spinal instability. <i>Spine</i> , <b>2000</b> , 25, 1398-404	3.3	201
81	The influence of psychosocial stress, gender, and personality on mechanical loading of the lumbar spine. <i>Spine</i> , <b>2000</b> , 25, 3045-54	3.3	165
80	Impairment magnification during dynamic trunk motions. <i>Spine</i> , <b>2000</b> , 25, 587-95	3.3	38
79	Longitudinal quantitative measures of the natural course of low back pain recovery. <i>Spine</i> , <b>2000</b> , 25, 1950-6		44

78	Measuring trunk motions in industry: variability due to task factors, individual differences, and the amount of data collected. <i>Ergonomics</i> , <b>2000</b> , 43, 691-701	2.9	37
77	Predicting Low Back Functional Performance Recovery. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2000</b> , 44, 213-216	0.4	
76	Combined Spinal Motion and Loading in Occupational Low Back Disorders. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2000</b> , 44, 624-626	0.4	
75	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> , <b>2000</b> , 43, 143-59	2.9	19
74	A Neuro-Fuzzy Model for Predicting EMG of Trunk Muscles Based on Lifting Task Variables. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2000</b> , 44, 276-279	0.4	1
73	Validation of a Low-Back Disorder Risk Model in a Prospective Study of Ergonomic Interventions into Manual Materials Handling Jobs. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2000</b> , 44, 5-5-5-8	0.4	1
72	Finger motion, wrist motion and tendon travel as a function of keyboard angles. <i>Clinical Biomechanics</i> , <b>2000</b> , 15, 489-98	2.2	34
71	Overview of Electromyography in Ergonomics. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2000</b> , 44, 5-534-5-536	0.4	6
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