Steven A Lavender

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The Role of Dynamic Three-Dimensional Trunk Motion in Occupationally-Related Low Back Disorders. Spine, 1993, 18, 617-628.	2.0	681
2	Biomechanical risk factors for occupationally related low back disorders. Ergonomics, 1995, 38, 377-410.	2.1	519
3	The Effects of Preview and Task Symmetry on Trunk Muscle Response to Sudden Loading. Human Factors, 1989, 31, 101-115.	3.5	88
4	The effects of initial lifting height, load magnitude, and lifting speed on the peak dynamic L5/S1 moments. International Journal of Industrial Ergonomics, 2003, 31, 51-59.	2.6	81
5	Biomechanical analyses of paramedics simulating frequently performed strenuous work tasks. Applied Ergonomics, 2000, 31, 167-177.	3.1	80
6	Musculoskeletal Discomfort, Physical Demand, and Caregiving Activities in Informal Caregivers. Journal of Applied Gerontology, 2015, 34, 734-760.	2.0	76
7	Evaluation of muscle force prediction models of the lumbar trunk using surface electromyography. Journal of Orthopaedic Research, 1994, 12, 689-698.	2.3	71
8	Quantitative Dynamic Measures of Physical Exposure Predict Low Back Functional Impairment. Spine, 2010, 35, 914-923.	2.0	68
9	Effects of Fear of Movement on Spine Velocity and Acceleration After Recovery From Low Back Pain. Spine, 2008, 33, 564-570.	2.0	64
10	Postural analysis of paramedics simulating frequently performed strenuous work tasks. Applied Ergonomics, 2000, 31, 45-57.	3.1	55
11	Coactivation of the Trunk Muscles during Asymmetric Loading of the Torso. Human Factors, 1992, 34, 239-247.	3.5	51
12	Trunk kinematics and trunk muscle activity during a rapidly applied load. Journal of Electromyography and Kinesiology, 1998, 8, 215-225.	1.7	51
13	Comparison of Five Methods Used To Determine Low Back Disorder Risk in a Manufacturing Environment. Spine, 1999, 24, 1441.	2.0	42
14	Can a New Behaviorally Oriented Training Process to Improve Lifting Technique Prevent Occupationally Related Back Injuries Due to Lifting?. Spine, 2007, 32, 487-494.	2.0	42
15	Designing ergonomic interventions for EMS workers—part II: Lateral transfers. Applied Ergonomics, 2007, 38, 227-236.	3.1	42
16	Variance in the Measurement of Sagittal Lumbar Spine Range of Motion Among Examiners, Subjects, and Instruments. Spine, 1995, 20, 1489-1492.	2.0	40
17	Factors affecting recovery from work-related, low back disorders in autoworkers11No commercial party having a direct financial interest in the results of the research supporting this article has or will confer a benefit upon the author(s) or upon any organization with which the author(s) is/are	0.9	39
18	Are Back Supports Plus Education More Effective Than Education Alone in Promoting Recovery From Low Back Pain?. Spine, 2007, 32, 2050-2057.	2.0	38

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19	Designing ergonomic interventions for EMS workers, Part I: Transporting patients down the stairs. Applied Ergonomics, 2007, 38, 71-81.	3.1	38
20	Quantitative biomechanical workplace exposure measures: Distribution centers. Journal of Electromyography and Kinesiology, 2010, 20, 813-822.	1.7	38
21	Developing Physical Exposure-Based Back Injury Risk Models Applicable to Manual Handling Jobs in Distribution Centers. Journal of Occupational and Environmental Hygiene, 2012, 9, 450-459.	1.0	38
22	Biomechanical aspects of work-related musculoskeletal disorders. Theoretical Issues in Ergonomics Science, 2001, 2, 153-217.	1.8	37
23	Effects of a Lifting Belt on Spine Moments and Muscle Recruitments After Unexpected Sudden Loading. Spine, 2000, 25, 1569-1578.	2.0	36
24	Risk Factors for Recurrent Episodes of Work-Related Low Back Disorders in an Industrial Population. Spine, 2006, 31, 789-798.	2.0	34
25	Designing ergonomic interventions for EMS workers: Concept generation of patient-handling devices. Applied Ergonomics, 2008, 39, 792-802.	3.1	34
26	Association Between Recovery Outcomes for Work-Related Low Back Disorders and Personal, Family, and Work Factors. Spine, 2000, 25, 1259-1265.	2.0	33
27	Instrumentation for measuring dynamic spinal load moment exposures in the workplace. Journal of Electromyography and Kinesiology, 2010, 20, 1-9.	1.7	33
28	Ergonomic and safety risk factors in home health care: Exploration and assessment of alternative interventions. Work, 2012, 42, 341-353.	1.1	32
29	Designing ergonomic interventions for emergency medical services workers—part III: Bed to stairchair transfers. Applied Ergonomics, 2007, 38, 581-589.	3.1	31
30	Hospital Patient Room Design. Herd, 2015, 8, 98-114.	1.5	30
31	Evaluating the physical demands on firefighters using hand-carried stair descent devices to evacuate mobility-limited occupants from high-rise buildings. Applied Ergonomics, 2014, 45, 389-397.	3.1	28
32	Effect of Lifting Belts, Foot Movement, and Lift Asymmetry on Trunk Motions. Human Factors, 1995, 37, 844-853.	3.5	27
33	Towards development of a nonhuman primate model of carpal tunnel syndrome: Performance of a voluntary, repetitive pinching task induces median mononeuropathy inMacaca fascicularis. Journal of Orthopaedic Research, 2007, 25, 713-724.	2.3	27
34	Does the asymmetry multiplier in the 1991 NIOSH lifting equation adequately control the biomechanical loading of the spine?. Ergonomics, 2009, 52, 71-79.	2.1	27
35	Collaborating with cardiac sonographers to develop work-related musculoskeletal disorder interventions. Ergonomics, 2016, 59, 1193-1204.	2.1	27
36	Trunk Muscle Use during Pulling Tasks: Effects of a Lifting Belt and Footing Conditions. Human Factors, 1998, 40, 159-172.	3.5	26

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37	The effects of a temporal warning signal on the biomechanical preparations for sudden loading. Journal of Electromyography and Kinesiology, 1995, 5, 45-56.	1.7	25
38	Cumulative Spine Loading and Clinically Meaningful Declines in Low-Back Function. Human Factors, 2014, 56, 29-43.	3.5	24
39	Trunk muscle activation and cocontraction while resisting applied moments in a twisted posture. Ergonomics, 1993, 36, 1145-1157.	2.1	23
40	Meeting Patient Expectations During Hospitalization: A Grounded Theoretical Analysis of Patient-Centered Room Elements. Herd, 2017, 10, 95-110.	1.5	23
41	Baggage handling in an airplane cargo hold: An ergonomic intervention study. International Journal of Industrial Ergonomics, 2006, 36, 301-312.	2.6	21
42	Spinal loading during manual materials handling in a kneeling posture. Journal of Electromyography and Kinesiology, 2007, 17, 25-34.	1.7	21
43	Physiological and biomechanical responses to a prolonged repetitive asymmetric lifting activity. Ergonomics, 2014, 57, 575-588.	2.1	21
44	Biomechanical evaluation of the Eco-Pick lift assist: A device designed to facilitate product selection tasks in distribution centers. Applied Ergonomics, 2013, 44, 230-236.	3.1	19
45	Effect of Lifting Belts on Trunk Muscle Activation during a Suddenly Applied Load. Human Factors, 1999, 41, 670-676.	3.5	18
46	The Effects of Lateral Trunk Bending on Muscle Recruitments When Resisting Nonsagittally Symmetric Bending Moments. Spine, 1995, 20, 184-189.	2.0	17
47	Spine loading during the application and removal of lifting slings: the effects of patient weight, bed height and work method. Ergonomics, 2017, 60, 636-648.	2.1	17
48	Developing Evidence-Based Design Guidelines for Medical/Surgical Hospital Patient Rooms That Meet the Needs of Staff, Patients, and Visitors. Herd, 2020, 13, 145-178.	1.5	17
49	Participation in Occupational Health Longitudinal Studies: Predictors of Missed Visits and Dropouts. Annals of Epidemiology, 2007, 17, 9-18.	1.9	15
50	Identification of factors that affect the adoption of an ergonomic intervention among Emergency Medical Service workers. Ergonomics, 2012, 55, 1362-1372.	2.1	15
51	Evaluating the physical demands when using sled-type stair descent devices to evacuate mobility-limited occupants from high-rise buildings. Applied Ergonomics, 2015, 50, 87-97.	3.1	15
52	Evaluating the physical demands on firefighters using track-type stair descent devices to evacuate mobility-limited occupants from high-rise buildings. Applied Ergonomics, 2015, 46, 96-106.	3.1	15
53	Initiating an Ergonomic Analysis. AAOHN Journal, 2000, 48, 423-429.	0.5	14
54	Low-back disorder risk in automotive parts distribution. International Journal of Industrial Ergonomics, 2006, 36, 755-760.	2.6	13

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55	Preference of lid design characteristics by older adults with limited hand function. Journal of Hand Therapy, 2013, 26, 261-271.	1.5	13
56	A biomechanical evaluation of potential ergonomic solutions for use by firefighter and EMS providers when lifting heavy patients in their homes. Applied Ergonomics, 2020, 82, 102910.	3.1	13
57	The use of turnover rate as a passive surveillance indicator for potential low back disorders. Ergonomics, 1994, 37, 971-978.	2.1	12
58	A biomechanical and subjective comparison of two powered ambulance cots. Ergonomics, 2015, 58, 1885-1896.	2.1	11
59	A framework for studying risk factors for lower extremity musculoskeletal discomfort in nurses. Ergonomics, 2020, 63, 1535-1550.	2.1	9
60	Determining what should be taught during lift-training instruction. Physiotherapy Theory and Practice, 2002, 18, 175-191.	1.3	8
61	Collaborating With Sonographers and Vascular Technologists to Develop Ergonomics Interventions to Address Work-Related Musculoskeletal Disorders. Journal of Diagnostic Medical Sonography, 2019, 35, 23-37.	0.3	8
62	Managing the Rhythmic Complexity of Hitting a Golf Ball. Journal of Motor Behavior, 2009, 41, 469-477.	0.9	7
63	Empowering Elderly Women with Osteoarthritis Through Handsâ€On Exploration of Adaptive Equipment Concepts. Occupational Therapy International, 2013, 20, 163-172.	0.7	7
64	The effects of transfer distance on spine kinematics when placing boxes at different heights. Applied Ergonomics, 2014, 45, 936-942.	3.1	7
65	Effects of Task Precision Demands on Behavioral and Physiological Changes During a Repetitive Asymmetric Lifting Activity. Human Factors, 2015, 57, 435-446.	3.5	7
66	Risks of hand tool injury in U.S. underground mining from 1978 through 1983 part I: coal mining. Journal of Safety Research, 1988, 19, 71-85.	3.6	6
67	A biomechanical and subjective assessment and comparison of three ambulance cot design configurations. Ergonomics, 2012, 55, 1350-1361.	2.1	6
68	A structural equation modelling approach to predicting adoption of a patient-handling intervention developed for EMS providers. Ergonomics, 2013, 56, 1698-1707.	2.1	6
69	Are Workers Who Leave a Job Exposed to Similar Physical Demands as Workers Who Develop Clinically Meaningful Declines in Low-Back Function?. Human Factors, 2014, 56, 58-72.	3.5	6
70	Risks of hand tool injury in U.S. underground mining from 1978 through 1983 part II: Metal-nonmetal mining. Journal of Safety Research, 1988, 19, 115-124.	3.6	5
71	Lifting belts: a psychophysical analysis. Ergonomics, 1995, 38, 1723-1727.	2.1	5
72	Evaluation of jar lid design characteristics by older women with hand use limitations. Applied Ergonomics, 2016, 52, 177-184.	3.1	5

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73	A Grounded Theoretical Analysis of Room Elements Desired by Family Members and Visitors of Hospitalized Patients: Implications for Medical/Surgical Hospital Patient Room Design. Herd, 2019, 12, 124-144.	1.5	5
74	Evaluating Home Healthcare Workers' Safety Hazard Detection Ability Using Virtual Simulation. Home Healthcare Now, 2019, 37, 265-272.	0.2	5
75	Collaborating with radiographers to address their work-related musculoskeletal discomfort. Applied Ergonomics, 2020, 85, 103069.	3.1	5
76	An investigation of an ergonomics intervention to affect neck biomechanics and pain associated with smartphone use. Work, 2021, 69, 127-139.	1,1	5
77	Trunk Muscle Loading in Non-Sagittally Symmetric Postures as a Result of Sudden Unexpected Loading Conditions. Proceedings of the Human Factors Society Annual Meeting, 1988, 32, 665-669.	0.1	4
78	Measuring pad–pad pinch strength in a non-human primate: Macaca fascicularis. Journal of Electromyography and Kinesiology, 2007, 17, 725-730.	1.7	4
79	Developing Ergonomic Interventions to Reduce Musculoskeletal Disorders in Grocery Distribution Centers. Proceedings of the Human Factors and Ergonomics Society, 2010, 54, 1229-1233.	0.3	4
80	Effects of Transfer Distance on Spine Kinematics for De-palletizing Tasks. Journal of Occupational and Environmental Hygiene, 2014, 11, 1-8.	1.0	4
81	Collaborating with mammographers to address their work-related musculoskeletal discomfort. Ergonomics, 2016, 59, 1307-1317.	2.1	4
82	Parallel streams versus integrated timing in multilimb pattern generation: A test of Korte's Third Law Journal of Experimental Psychology: Human Perception and Performance, 2016, 42, 1703-1715.	0.9	4
83	Musculoskeletal discomfort in veterinary healthcare professions. Work, 2022, 71, 1007-1027.	1.1	4
84	Comparisons of tibial accelerations when walking on a wood composite vs. a concrete mezzanine surface. Applied Ergonomics, 2013, 44, 824-827.	3.1	3
85	Architects' and interior designers' perspectives on hospital patient rooms designed by the people who work in these rooms. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 588-592.	0.3	3
86	An electromyographic and kinematic comparison between an extendable conveyor system and an articulating belt conveyor used for truck loading and unloading tasks. Applied Ergonomics, 2017, 58, 398-404.	3.1	3
87	Quantifying the effectiveness of static and dynamic insoles in reducing the tibial shock experienced during walking. Applied Ergonomics, 2019, 74, 118-123.	3.1	3
88	The Effects of Load Stability and Visual Access During Asymmetric Lifting Tasks on Back and Upper Extremity Biomechanical Responses. Human Factors, 2019, 61, 712-721.	3.5	3
89	Assessment of alternative methods for informal caregivers to perform patient repositioning tasks. Applied Ergonomics, 2021, 93, 103360.	3.1	3
90	Ergonomic considerations when slotting piece-pick operations in distribution centers. Applied Ergonomics, 2021, 97, 103554.	3.1	3

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91	The effects of using a footrest during computer tasks varying in complexity and temporal demands: A postural and electromyographic analysis. Applied Ergonomics, 2022, 98, 103550.	3.1	3
92	Industrial Quantification of Occupationally-Related Low Back Disorder Risk Factors. Proceedings of the Human Factors Society Annual Meeting, 1992, 36, 757-760.	0.1	2
93	Age-Related Differences in the Rhythmic Structure of the Golf Swing. Journal of Motor Behavior, 2011, 43, 433-444.	0.9	2
94	The Development of Preparatory Response Strategies in Anticipation of Sudden Loading of the Torso. Proceedings of the Human Factors Society Annual Meeting, 1990, 34, 757-761.	0.1	1
95	An Ergonomic Evaluation of Hand-Carried, Track-Type, and Sled-Type Stair Descent Devices Used for High Rise Building Evacuation. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 976-980.	0.3	1
96	Exploring the Effects of Seated Whole Body Vibration Exposure on Repetitive Asymmetric Lifting Tasks. Journal of Occupational and Environmental Hygiene, 2015, 12, 172-181.	1.0	1
97	The Environmental Services Perspective on Hospital Room Design: A Mixed-Methods Approach. Proceedings of the International Symposium of Human Factors and Ergonomics in Healthcare, 2017, 6, 104-108.	0.3	1
98	Preventing Firefighter Injuries When Handling Obsese Patients: Understanding the Patient Handling Scenarios. Proceedings of the Human Factors and Ergonomics Society, 2017, 61, 1015-1016.	0.3	1
99	Evaluating the Efficacy of a New Alternating Pressure Air Mattress Aimed at Reducing Pressure Injuries During the Transport of Combat Casualties. Military Medicine, 2023, 188, 3026-3033.	0.8	1
100	The Effects of Seam Height, Scaling Method, and Bar Weight Distribution on Scaling Effectiveness and Electromyographic Activity. Proceedings of the Human Factors Society Annual Meeting, 1987, 31, 471-475.	0.1	0
101	Trunk Muscle Activation While Resisting Asymmetrically Applied Loads in an Axially Rotated Posture. Proceedings of the Human Factors Society Annual Meeting, 1992, 36, 752-756.	0.1	0
102	Developing a Non-Human Primate Experimental Model for Studying Carpal Tunnel Syndrome. Proceedings of the Human Factors and Ergonomics Society, 2006, 50, 1318-1322.	0.3	0
103	Understanding Factors that Affect the Adoption of Ergonomic Interventions among Ems Workers. Proceedings of the Human Factors and Ergonomics Society, 2010, 54, 1234-1238.	0.3	0
104	Identifying Unmet Patient Expectations via Critical Review of Five Simulated Hospital Rooms. Proceedings of the International Symposium of Human Factors and Ergonomics in Healthcare, 2017, 6, 116-117.	0.3	0
105	Re-thinking floor mat design from an ergonomics perspective: Can a two-part mat system reduce biomechanical loads during normal mat handling tasks?. Applied Ergonomics, 2018, 72, 17-24.	3.1	0
106	The efficacy of a lifting strap as an ergonomic intervention for EMS providers: Does it make it easier to raise a supine patient to an upright sitting posture?. Applied Ergonomics, 2021, 94, 103416.	3.1	0
107	Muscle Recruitment during Simulated Piece Picking Tasks Commonly Performed in Distribution Centers. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 964-964.	0.3	0