

Andrew S Merryweather

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

939
citations

516710

16
h-index

501196

28
g-index

83
all docs

83
docs citations

83
times ranked

909
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of orthotic insole on gait patterns in children with mild leg length discrepancy. <i>Gait and Posture</i> , 2022, 93, 191-197.	1.4	4
2	Classifying hazardous movements and loads during manual materials handling using accelerometers and instrumented insoles. <i>Applied Ergonomics</i> , 2022, 101, 103693.	3.1	2
3	The Effect of Tibial Insertion Site in Single-Bundle ACL Reconstruction during Gait Based on Motion Capture and Musculoskeletal Model. <i>Journal of Healthcare Engineering</i> , 2022, 2022, 1-7.	1.9	0
4	Gait Improvement in Patients with Knee Osteoarthritis after Proximal Fibular Osteotomy. <i>BioMed Research International</i> , 2022, 2022, 1-8.	1.9	3
5	Augmenting Virtual Reality Terrain Display with Smart Shoe Physical Rendering: A Pilot Study. <i>IEEE Transactions on Haptics</i> , 2021, 14, 174-187.	2.7	5
6	Development of a Novel Computational Model for Evaluating Fall Risk in Patient Room Design. <i>Herd</i> , 2021, 14, 350-367.	1.5	5
7	Hospital bed height influences biomechanics during bed egress: A comparative controlled study of patients with Parkinson disease. <i>Journal of Biomechanics</i> , 2021, 115, 110116.	2.1	4
8	Optimizing Hospital Room Layout to Reduce the Risk of Patient Falls. , 2021, , .		1
9	A model predictive approach for online mobile manipulation of non-holonomic objects using learned dynamics. <i>International Journal of Robotics Research</i> , 2021, 40, 815-831.	8.5	3
10	Cervical Muscle Activation Due to an Applied Force in Response to Different Types of Acoustic Warnings. <i>Annals of Biomedical Engineering</i> , 2021, 49, 2260-2272.	2.5	5
11	Validation of the Revised Strain Index for Predicting Risk of Incident Carpal Tunnel Syndrome in a Prospective Cohort. <i>Ergonomics</i> , 2021, 64, 1369-1378.	2.1	4
12	Creating a Safer Patient Room Environment: The Contribution of Patient Bed Height. <i>Proceedings of the International Symposium of Human Factors and Ergonomics in Healthcare</i> , 2021, 10, 180-184.	0.3	0
13	Trends in incidence and correlation between medical costs and lost workdays for work-related amputations in the State of California from 2007 to 2018. <i>Health Science Reports</i> , 2021, 4, e319.	1.5	4
14	Designing a Patient Room as a Fall Protection Strategy: The Perspectives of Healthcare Design Experts. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 8769.	2.6	4
15	The role of neck muscle co-contraction and postural changes in head kinematics after safe head impacts: Investigation of head/neck injury reduction. <i>Journal of Biomechanics</i> , 2021, 128, 110732.	2.1	3
16	Cervical Muscle Activation Characteristics and Head Kinematics in Males and Females Following Acoustic Warnings and Impulsive Head Forces. <i>Annals of Biomedical Engineering</i> , 2021, 49, 3438.	2.5	0
17	Ground reaction force adaptation during cross-slope walking on railroad ballast. <i>Gait and Posture</i> , 2020, 75, 66-71.	1.4	2
18	Sensitivity analysis of muscle properties and impact parameters on head injury risk in American football. <i>Journal of Biomechanics</i> , 2020, 100, 109411.	2.1	14

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19	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.	1.7	6
20	Evaluating Different Measures of Low Back Pain Among U.S. Manual Materials Handling Workers: Comparisons of Demographic, Psychosocial, and Job Physical Exposure. <i>Human Factors</i> , 2020, , 001872082097110.	3.5	0
21	Experience is not Required. , 2020, , .		3
22	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> , 2020, 64, 942-946.	0.3	0
23	Influence of Frequency Bands in EEG Signal to Predict User Intent. , 2019, , .		2
24	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.	1.9	49
25	Auditory Warnings Invoking Startle Response Cause Faster and More Intense Neck Muscle Contractions Prior to Head Impacts. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2019, 63, 802-806.	0.3	3
26	Relationship Between Opioid Use and Pain Severity Ratings in Workers With Low Back Pain. <i>Journal of Occupational and Environmental Medicine</i> , 2019, 61, 836-840.	1.7	5
27	The Role of Elbow Tender Point Examination in the Diagnosis of Lateral Epicondylitis. <i>Journal of Occupational and Environmental Medicine</i> , 2019, 61, 126-131.	1.7	1
28	Role of Biomechanical Factors in Resolution of Carpal Tunnel Syndrome Among a Population of Workers. <i>Journal of Occupational and Environmental Medicine</i> , 2019, 61, 340-346.	1.7	4
29	The Natural Sit-to-Stand-Walk of the Frail. , 2019, , .		2
30	Training Persons with Parkinson Disease using an Advanced CAVE Virtual Reality System. <i>FASEB Journal</i> , 2019, 33, 335.4.	0.5	3
31	Dual-task interference during gait on irregular terrain in people with Parkinson's disease. <i>Gait and Posture</i> , 2018, 63, 17-22.	1.4	10
32	Risk assessments using the Strain Index and the TLV for HAL, Part II: Multi-task jobs and prevalence of CTS. <i>Journal of Occupational and Environmental Hygiene</i> , 2018, 15, 157-166.	1.0	4
33	Dynamic Model Learning and Manipulation Planning for Objects in Hospitals Using a Patient Assistant Mobile (PAM)Robot. , 2018, , .		6
34	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.	0.3	2
35	Characterization of load reduction while lifting drywall using an unpowered drywall lifting device. <i>Work</i> , 2018, 60, 661-671.	1.1	2
36	Biomechanical Characterization of the Hand Touch Corrective Behavior in the Frail Elderly During Bed Egress. <i>Proceedings of the International Symposium of Human Factors and Ergonomics in Healthcare</i> , 2018, 7, 237-239.	0.3	1

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37	The inclusion of hyoid muscles improve moment generating capacity and dynamic simulations in musculoskeletal models of the head and neck. <i>PLoS ONE</i> , 2018, 13, e0199912.	2.5	49
38	Gait alterations on irregular surface in people with Parkinson's disease. <i>Clinical Biomechanics</i> , 2018, 57, 93-98.	1.2	27
39	Median Nerve Symptoms, Signs, and Electrodiagnostic Abnormalities Among Working Adults. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2018, 26, 576-584.	2.5	18
40	Vacuum level effects on gait characteristics for unilateral transtibial amputees with elevated vacuum suspension. <i>Clinical Biomechanics</i> , 2017, 43, 95-101.	1.2	15
41	Association Between Cardiovascular Disease Risk Factors and Rotator Cuff Tendinopathy. <i>Journal of Occupational and Environmental Medicine</i> , 2017, 59, 154-160.	1.7	32
42	Vacuum level effects on knee contact force for unilateral transtibial amputees with elevated vacuum suspension. <i>Journal of Biomechanics</i> , 2017, 57, 110-116.	2.1	3
43	Association between wrist ratio and carpal tunnel syndrome: Effect modification by body mass index. <i>Muscle and Nerve</i> , 2017, 56, 1047-1053.	2.2	13
44	Association between Epicondylitis and Cardiovascular Risk Factors in Pooled Occupational Cohorts. <i>BMC Musculoskeletal Disorders</i> , 2017, 18, 227.	1.9	8
45	Kinematics of the Pelvis, Torso, and Lower Limb During Obstacle Negotiation While Under Temporal Constraints. <i>Anatomical Record</i> , 2017, 300, 732-738.	1.4	6
46	Risk assessments using the Strain Index and the TLV for HAL, Part I: Task and multi-task job exposure classifications. <i>Journal of Occupational and Environmental Hygiene</i> , 2017, 14, 1011-1019.	1.0	7
47	Evaluation of knee joint forces during kneeling work with different kneepads. <i>Applied Ergonomics</i> , 2017, 58, 308-313.	3.1	17
48	Measuring Entropy Change in a Human Physiological System. <i>Journal of Thermodynamics</i> , 2016, 2016, 1-8.	0.8	8
49	Association Between Cardiovascular Risk Factors and Carpal Tunnel Syndrome in Pooled Occupational Cohorts. <i>Journal of Occupational and Environmental Medicine</i> , 2016, 58, 87-93.	1.7	13
50	Psychosocial Factors Related to Lateral and Medial Epicondylitis. <i>Journal of Occupational and Environmental Medicine</i> , 2016, 58, 588-593.	1.7	10
51	Evaluation of a force plate system for measuring center of pressure in railroad ballast. <i>Gait and Posture</i> , 2016, 46, 179-183.	1.4	4
52	Comprehensive quantitative investigation of arm swing during walking at various speed and surface slope conditions. <i>Human Movement Science</i> , 2016, 49, 104-115.	1.4	26
53	Impact of Work Organizational Factors on Carpal Tunnel Syndrome and Epicondylitis. <i>Journal of Occupational and Environmental Medicine</i> , 2016, 58, 760-764.	1.7	10
54	Relationships between job organisational factors, biomechanical and psychosocial exposures. <i>Ergonomics</i> , 2016, 59, 179-194.	2.1	43

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55	The effect of toe marker placement error on joint kinematics and muscle forces using OpenSim gait simulation. <i>Bio-Medical Materials and Engineering</i> , 2015, 26, S685-S691.	0.6	1
56	Analysis of the Influence of Hospital Bed Height on Kinematic Parameters Associated with Patient Falls During Egress. <i>Procedia Manufacturing</i> , 2015, 3, 280-287.	1.9	3
57	Effects of bed height on the biomechanics of hospital bed entry and egress. <i>Work</i> , 2015, 52, 707-713.	1.1	6
58	The Safety of Hospital Beds. <i>Global Qualitative Nursing Research</i> , 2015, 2, 233339361557532.	1.4	7
59	Associations between Distal Upper Extremity Job Physical Factors and Psychosocial Measures in a Pooled Study. <i>BioMed Research International</i> , 2015, 2015, 1-9.	1.9	10
60	1C1-3 The Effect of Carrying a Military Backpack on a Transverse Slope and Sand Surface on Lower Limb Kinetics. <i>Ningen Kogaku = the Japanese Journal of Ergonomics</i> , 2015, 51, S398-S403.	0.1	0
61	Associations between job physical and psychosocial factors in a pooled study. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2015, 59, 1229-1233.	0.3	1
62	The influence of deformation height on estimating the center of pressure during level and cross-slope walking on sand. <i>Gait and Posture</i> , 2015, 42, 110-115.	1.4	10
63	An improved OpenSim gait model with multiple degrees of freedom knee joint and knee ligaments. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 1217-1224.	1.6	43
64	Obstacle Height and Divided Attention Affects Obstacle Crossing in People with Parkinson Disease. <i>FASEB Journal</i> , 2015, 29, 705.1.	0.5	0
65	The Strain Index and <scp>TLV</scp> for <scp>HAL</scp>: Risk of lateral epicondylitis in a prospective cohort. <i>American Journal of Industrial Medicine</i> , 2014, 57, 286-302.	2.1	38
66	Association Between Lifting and Use of Medication for Low Back Pain. <i>Journal of Occupational and Environmental Medicine</i> , 2014, 56, 867-877.	1.7	16
67	Manual material handling guidelines for the shoulder: Biomechanical support for the Liberty Mutual TablesÅas developed by Snook and Ciriello. <i>International Journal of Industrial Ergonomics</i> , 2014, 44, 275-280.	2.6	1
68	The NIOSH Lifting Equation and Low-Back Pain, Part 2. <i>Human Factors</i> , 2014, 56, 44-57.	3.5	23
69	The NIOSH Lifting Equation and Low-Back Pain, Part 1. <i>Human Factors</i> , 2014, 56, 6-28.	3.5	69
70	Joint loading, muscle co-contraction, ligament force and peak knee contact forces when walking on railroad ballast. <i>International Journal of Human Factors Modelling and Simulation</i> , 2014, 4, 87.	0.2	4
71	Study protocol title: a prospective cohort study of low back pain. <i>BMC Musculoskeletal Disorders</i> , 2013, 14, 84.	1.9	25
72	The Effect of Lifting Speed on Cumulative and Peak Biomechanical Loading for Symmetric Lifting Tasks. <i>Safety and Health at Work</i> , 2013, 4, 105-110.	0.6	12

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73	Potential to fall of bipeds using foot kinematics. , 2013, 2013, 4746-50.		1
74	Green Machine: Electric Yard and Garden Helper. , 2013, , .		0
75	E-Tetra Kayak: Adaptive Sport Kayak for Recreational Therapy for Persons With Spinal Cord Injuries. , 2013, , .		1
76	The Technology of Merging Single Force Plate Gait Trails to Simulate Full Gait Cycle in Environmental Health Research. Advanced Materials Research, 2012, 518-523, 639-646.	0.3	0
77	The WISTAH hand study: A prospective cohort study of distal upper extremity musculoskeletal disorders. BMC Musculoskeletal Disorders, 2012, 13, 90.	1.9	36
78	The Strain Index (SI) and Threshold Limit Value (TLV) for Hand Activity Level (HAL): risk of carpal tunnel syndrome (CTS) in a prospective cohort. Ergonomics, 2012, 55, 396-414.	2.1	90
79	Prediction of Peak Back Compressive Forces as a Function of Lifting Speed and Compressive Forces at Lift Origin and Destination - A Pilot Study. Safety and Health at Work, 2011, 2, 236-242.	0.6	5
80	Gait Characteristics Associated with Trip-Induced Falls on Level and Sloped Irregular Surfaces. Minerals (Basel, Switzerland), 2011, 1, 109-121.	2.0	23
81	A revised back compressive force estimation model for ergonomic evaluation of lifting tasks. Work, 2009, 34, 263-272.	1.1	39
82	Board 87 : Integrating Product-Safety Curriculum to Enhance Design and Reinforce Engineering Ethics. , 0, , .		0
83	Intrinsic factors contributing to elevated intra-abdominal pressure. Computer Methods in Biomechanics and Biomedical Engineering, 0, , 1-11.	1.6	0