

Andrew C Laing

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

890
citations

471509

17
h-index

501196

28
g-index

57
all docs

57
docs citations

57
times ranked

672
citing authors

#	ARTICLE	IF	CITATIONS
1	Anti-fatigue mats can reduce low back discomfort in transient pain developers. <i>Applied Ergonomics</i> , 2022, 100, 103661.	3.1	3
2	The SAFEST review: a mixed methods systematic review of shock-absorbing flooring for fall-related injury prevention. <i>BMC Geriatrics</i> , 2022, 22, 32.	2.7	7
3	Shock-absorbing flooring for fall-related injury prevention in older adults and staff in hospitals and care homes: the SAFEST systematic review. <i>Health Technology Assessment</i> , 2022, 26, 1-196.	2.8	5
4	Strain Response in the Facet Joint Capsule During Physiological Joint Rotation and Translation Following a Simulated Impact Exposure: An In Vitro Porcine Model. <i>Journal of Biomechanical Engineering</i> , 2022, 144, .	1.3	1
5	The Influence of Fall Direction and Hip Protector on Fracture Risk: FE Model Predictions Driven by Experimental Data. <i>Annals of Biomedical Engineering</i> , 2022, 50, 278-290.	2.5	4
6	Femur geometry and body composition influence femoral neck stresses: A combined fall simulation and beam modelling approach. <i>Journal of Biomechanics</i> , 2022, 141, 111192.	2.1	0
7	Analysis of invoked slips while wearing flip-flops in wet and dry conditions: Does alternative footwear alter slip kinematics?. <i>Applied Ergonomics</i> , 2021, 92, 103318.	3.1	3
8	Evaluation of amplitude- and frequency-based techniques for attenuating inertia-based movement artifact during surface translation perturbations. <i>Gait and Posture</i> , 2021, 86, 299-302.	1.4	1
9	Exploring the influence of impact severity and posture on vertebral joint mechanics in an in-vitro porcine model. <i>Journal of Biomechanics</i> , 2021, 122, 110479.	2.1	1
10	Anatomically Aligned Loading During Falls: Influence of Fall Protocol, Sex and Trochanteric Soft Tissue Thickness. <i>Annals of Biomedical Engineering</i> , 2021, , 1.	2.5	2
11	Application of Principal Component Analysis to Forward Reactive Stepping: Whole-body Movement Strategy Differs as a Function of Age and Sex. <i>Gait and Posture</i> , 2021, 89, 38-44.	1.4	4
12	Factors that influence the distribution of impact force relative to the proximal femur during lateral falls. <i>Journal of Biomechanics</i> , 2021, 127, 110679.	2.1	0
13	Influence of intermittent pneumatic compression on foot sensation and balance control in chemotherapy-induced peripheral neuropathy patients. <i>Clinical Biomechanics</i> , 2021, 90, 105512.	1.2	1
14	Impact attenuation provided by older adult protective headwear products during simulated fall-related head impacts. <i>Journal of Rehabilitation and Assistive Technologies Engineering</i> , 2021, 8, 205566832110503.	0.9	1
15	The Effects of Body Position on Trochanteric Soft Tissue Thickness—Implications for Predictions of Impact Force and Hip Fracture Risk During Lateral Falls. <i>Journal of Applied Biomechanics</i> , 2021, 37, 556-564.	0.8	4
16	Strain of the facet joint capsule during rotation and translation range-of-motion tests: an in vitro porcine model as a human surrogate. <i>Spine Journal</i> , 2020, 20, 475-487.	1.3	4
17	Protocol for the SAFEST review: the Shock-Absorbing Flooring Effectiveness Systematic review including older adults and staff in hospitals and care homes. <i>BMJ Open</i> , 2020, 10, e032315.	1.9	5
18	Predicting population level hip fracture risk: a novel hierarchical model incorporating probabilistic approaches and factor of risk principles. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020, 23, 1201-1214.	1.6	5

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19	Footfall Deflection of Antifatigue Flooring During Simulated Human Stance. <i>Ergonomics in Design</i> , 2020, , 106480462097573.	0.7	0
20	Monocular 3D Sway Tracking for Assessing Postural Instability in Cerebral Hypoperfusion During Quiet Standing. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 720-729.	4.9	0
21	The Flooring for Injury Prevention (FLIP) Study of compliant flooring for the prevention of fall-related injuries in long-term care: A randomized trial. <i>PLoS Medicine</i> , 2019, 16, e1002843.	8.4	33
22	Body configuration as a predictor of centre of mass displacement in a forward reactive step. <i>Human Movement Science</i> , 2019, 66, 292-300.	1.4	2
23	The influence of increased passive stiffness of the trunk and hips on balance control during reactive stepping. <i>Gait and Posture</i> , 2019, 72, 51-56.	1.4	4
24	Manual patient transfers: factors that influence decisions and kinematic strategies employed by nursing aides. <i>Ergonomics</i> , 2019, 62, 565-574.	2.1	3
25	The influence of muscle activation on impact dynamics during lateral falls on the hip. <i>Journal of Biomechanics</i> , 2018, 66, 111-118.	2.1	9
26	Pelvis and femur geometry: Relationships with impact characteristics during sideways falls on the hip. <i>Journal of Biomechanics</i> , 2018, 80, 72-78.	2.1	3
27	Standing Versus Steppingâ€”Exploring the Relationships Between Postural Steadiness and Dynamic Reactive Balance Control. <i>Journal of Applied Biomechanics</i> , 2018, 34, 488-495.	0.8	2
28	Stooping, crouching, and standing â€” Characterizing balance control strategies across postures. <i>Journal of Biomechanics</i> , 2017, 53, 90-96.	2.1	6
29	Older females in the workforce â€” the effects of age on psychophysical estimates of maximum acceptable lifting loads. <i>Ergonomics</i> , 2017, 60, 1708-1717.	2.1	11
30	The Influence of Body Mass Index, Sex, & Muscle Activation on Pressure Distribution During Lateral Falls on the Hip. <i>Annals of Biomedical Engineering</i> , 2017, 45, 2775-2783.	2.5	8
31	Measurement of peak impact loads differ between accelerometers â€” Effects of system operating range and sampling rate. <i>Journal of Biomechanics</i> , 2017, 58, 222-226.	2.1	8
32	Compliant flooring to prevent fall-related injuries in older adults: A scoping review of biomechanical efficacy, clinical effectiveness, cost-effectiveness, and workplace safety. <i>PLoS ONE</i> , 2017, 12, e0171652.	2.5	40
33	Study protocol for the Flooring for Injury Prevention (FLIP) Study: a randomised controlled trial in long-term care. <i>Injury Prevention</i> , 2016, 22, 453-460.	2.4	10
34	Falls and Parkinson's Disease: Evidence from Video Recordings of Actual Fall Events. <i>Journal of the American Geriatrics Society</i> , 2016, 64, 96-101.	2.6	34
35	The influence of repeated chin bar impacts on the protective properties of full-face mountain biking helmets. <i>Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology</i> , 2016, 230, 213-224.	0.7	3
36	Laboratory Evaluation of the gForce Trackerâ„¢, a Head Impact Kinematic Measuring Device for Use in Football Helmets. <i>Annals of Biomedical Engineering</i> , 2016, 44, 1246-1256.	2.5	57

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37	Factors that influence soft tissue thickness over the greater trochanter: Application to understanding hip fractures. <i>Clinical Anatomy</i> , 2015, 28, 253-261.	2.7	12
38	Age-related differences in movement strategies and postural control during stooping and crouching tasks. <i>Human Movement Science</i> , 2015, 44, 246-257.	1.4	4
39	The Effects of Age on the Morphometry of the Cervical Spinal Cord and Spinal Column in Adult Rats: An MRI-Based Study. <i>Anatomical Record</i> , 2014, 297, 1885-1895.	1.4	7
40	Energy absorption during impact on the proximal femur is affected by body mass index and flooring surface. <i>Journal of Biomechanics</i> , 2014, 47, 2391-2397.	2.1	33
41	Novel safety floors do not influence early compensatory balance reactions in older adults. <i>Gait and Posture</i> , 2014, 40, 160-165.	1.4	20
42	Moving beyond quiet stance: Applicability of the inverted pendulum model to stooping and crouching postures. <i>Journal of Biomechanics</i> , 2014, 47, 3574-3579.	2.1	5
43	The influence of ankle muscle activation on postural sway during quiet stance. <i>Gait and Posture</i> , 2014, 39, 1115-1121.	1.4	80
44	Characterization of the protective capacity of flooring systems using force-deflection profiling. <i>Medical Engineering and Physics</i> , 2013, 35, 108-115.	1.7	19
45	The effects of body mass index and sex on impact force and effective pelvic stiffness during simulated lateral falls. <i>Clinical Biomechanics</i> , 2013, 28, 1026-1033.	1.2	22
46	Intervening on the Determinants of Mechanical Exposures: The Effects of a Redesigned Production System on Physical Demands and Worker Perceptions. <i>IIE Transactions on Occupational Ergonomics and Human Factors</i> , 2013, 1, 128-139.	0.4	3
47	The Influence of Body Mass Index and Gender on the Impact Attenuation Properties of Flooring Systems. <i>Journal of Applied Biomechanics</i> , 2013, 29, 731-739.	0.8	18
48	Quantification of the Trade-Off Between Force Attenuation and Balance Impairment in the Design of Compliant Safety Floors. <i>Journal of Applied Biomechanics</i> , 2013, 29, 563-572.	0.8	17
49	The body configuration at step contact critically determines the successfulness of balance recovery in response to large backward perturbations. <i>Gait and Posture</i> , 2012, 35, 462-466.	1.4	28
50	The influence of headform orientation and flooring systems on impact dynamics during simulated fall-related head impacts. <i>Medical Engineering and Physics</i> , 2012, 34, 1071-1078.	1.7	33
51	The effects of pad geometry and material properties on the biomechanical effectiveness of 26 commercially available hip protectors. <i>Journal of Biomechanics</i> , 2011, 44, 2627-2635.	2.1	50
52	The influence of novel compliant floors on balance control in elderly women – A biomechanical study. <i>Accident Analysis and Prevention</i> , 2011, 43, 1480-1487.	5.7	28
53	Effects of Advanced Age on the Morphometry and Degenerative State of the Cervical Spine in a Rat Model. <i>Anatomical Record</i> , 2011, 294, 1326-1336.	1.4	12
54	Characterizing the effective stiffness of the pelvis during sideways falls on the hip. <i>Journal of Biomechanics</i> , 2010, 43, 1898-1904.	2.1	43

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55	Low stiffness floors can attenuate fall-related femoral impact forces by up to 50% without substantially impairing balance in older women. <i>Accident Analysis and Prevention</i> , 2009, 41, 642-650.	5.7	64
56	The Force Attenuation Provided by Hip Protectors Depends on Impact Velocity, Pelvic Size, and Soft Tissue Stiffness. <i>Journal of Biomechanical Engineering</i> , 2008, 130, 061005.	1.3	59
57	Effect of compliant flooring on impact force during falls on the hip. <i>Journal of Orthopaedic Research</i> , 2006, 24, 1405-1411.	2.3	49