

Kalev Kuklane

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

2,896
citations

159525

30
h-index

182361

51
g-index

90
all docs

90
docs citations

90
times ranked

1813
citing authors

#	ARTICLE	IF	CITATIONS
1	Using a thermal manikin to determine evaporative resistance and thermal insulation – A comparison of methods. <i>Journal of Industrial Textiles</i> , 2021, 50, 1493-1515.	1.1	4
2	Physiological Capacity During Simulated Stair Climbing Evacuation at Maximum Speed Until Exhaustion. <i>Fire Technology</i> , 2021, 57, 767-790.	1.5	6
3	The impact of carrying load on physical performance during ascending evacuation movement. <i>Fire and Materials</i> , 2021, 45, 488-497.	0.9	4
4	Common clothing area factor estimation equations are inaccurate for highly insulating (I_{cl} and non-western loose-fitting clothing ensembles. <i>Industrial Health</i> , 2021, 59, 107-116.	0.4	6
5	Footwear for cold weather conditions. , 2021, , 323-360.		1
6	Validation of ISO 9920 clothing item insulation summation method based on an ambulance personnel clothing system. <i>Industrial Health</i> , 2021, 59, 27-33.	0.4	3
7	Industrial workwear for hot workplace environments: thermal management attributes. <i>International Journal of Biometeorology</i> , 2021, 65, 1751-1765.	1.3	3
8	Effects of leg fatigue due to exhaustive stair climbing on gait biomechanics while walking up a 10° incline – Implications for evacuation and work safety. <i>Fire Safety Journal</i> , 2021, 123, 103342.	1.4	5
9	ClimApp – Integrating Personal Factors with Weather Forecasts for Individualised Warning and Guidance on Thermal Stress. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 11317.	1.2	14
10	Insulation and Evaporative Resistance of Clothing for Sugarcane Harvesters and Chemical Sprayers, and Their Application in PHS Model-Based Exposure Predictions. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 3074.	1.2	7
11	Heat Stress in Indoor Environments of Scandinavian Urban Areas: A Literature Review. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 560.	1.2	44
12	Thermal-Performance Evaluation of Bicycle Helmets for Convective and Evaporative Heat Loss at Low and Moderate Cycling Speeds. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3672.	1.3	7
13	Is there a Need to Integrate Human Thermal Models with Weather Forecasts to Predict Thermal Stress?. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 4586.	1.2	23
14	Surveillance of work environment and heat stress assessment using meteorological data. <i>International Journal of Biometeorology</i> , 2019, 63, 195-196.	1.3	2
15	Occupational heat stress assessment and protective strategies in the context of climate change. <i>International Journal of Biometeorology</i> , 2018, 62, 359-371.	1.3	112
16	Limitations of oxygen uptake and leg muscle activity during ascending evacuation in stairways. <i>Applied Ergonomics</i> , 2018, 66, 52-63.	1.7	19
17	Exploring how a traditional diluted yoghurt drink may mitigate heat strain during medium-intensity intermittent work: a multidisciplinary study of occupational heat strain. <i>Industrial Health</i> , 2018, 56, 106-121.	0.4	9
18	Oxygen uptake and muscle activity limitations during stepping on a stair machine at three different climbing speeds. <i>Ergonomics</i> , 2018, 61, 1382-1394.	1.1	13

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19	A Comparison Between Physical and Virtual Experiments of Convective Heat Transfer Between Head and Bicycle Helmet. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 517-527.	0.5	1
20	Human responses in heat " comparison of the Predicted Heat Strain and the Fiala multi-node model for a case of intermittent work. <i>Journal of Thermal Biology</i> , 2017, 70, 45-52.	1.1	25
21	Ascending stair evacuation: walking speed as a function of height. <i>Fire and Materials</i> , 2017, 41, 514-534.	0.9	17
22	Occupational heat stress and heat strain assessment using climate service information. , 2017, , .		0
23	Types of thermal manikin. , 2017, , 25-54.		6
24	Validation of the thermophysiological model by Fiala for prediction of local skin temperatures. <i>International Journal of Biometeorology</i> , 2016, 60, 1969-1982.	1.3	27
25	A model to estimate vertical speed of ascending evacuation from maximal work capacity data. <i>Safety Science</i> , 2016, 89, 369-378.	2.6	15
26	Use of a novel smart heating sleeping bag to improve wearers' local thermal comfort in the feet. <i>Scientific Reports</i> , 2016, 6, 19326.	1.6	12
27	Opportunities and constraints of presently used thermal manikins for thermo-physiological simulation of the human body. <i>International Journal of Biometeorology</i> , 2016, 60, 435-446.	1.3	32
28	Evaluation of Thermal Resistance of the Military Sleeping Bags. <i>Advanced Materials Research</i> , 2015, 1117, 299-302.	0.3	0
29	Smart heating sleeping bags for improving wearers' thermal comfort at the feet. <i>Extreme Physiology and Medicine</i> , 2015, 4, A92.	2.5	4
30	Cold-induced vasodilation during continuous exercise in the extreme cold air (-30.6 Â°C). <i>Extreme Physiology and Medicine</i> , 2015, 4, .	2.5	1
31	Thermal effects of headgear: state-of-the-art and way forward. <i>Extreme Physiology and Medicine</i> , 2015, 4, .	2.5	3
32	Evaporative resistance of newly designed bicycle helmets. <i>Extreme Physiology and Medicine</i> , 2015, 4, .	2.5	0
33	A ventilation cooling shirt worn during office work in a hot climate: cool or not?. <i>International Journal of Occupational Safety and Ergonomics</i> , 2015, 21, 457-463.	1.1	32
34	A review on ergonomics of headgear: Thermal effects. <i>International Journal of Industrial Ergonomics</i> , 2015, 45, 1-12.	1.5	37
35	Protection Against Cold in Prehospital Care: Wet Clothing Removal or Addition of a Vapor Barrier. <i>Wilderness and Environmental Medicine</i> , 2015, 26, 11-20.	0.4	29
36	Ebola: Improving the Design of Protective Clothing for Emergency Workers Allows Them to Better Cope with Heat Stress and Help to Contain the Epidemic. <i>Annals of Occupational Hygiene</i> , 2015, 59, 258-61.	1.9	25

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37	Validation of standard ASTM F2732 and comparison with ISO 11079 with respect to comfort temperature ratings for cold protective clothing. <i>Applied Ergonomics</i> , 2015, 46, 44-53.	1.7	17
38	Working spectacles for sorting mail. <i>Work</i> , 2014, 47, 319-327.	0.6	0
39	Validity and reliability of the Cold Discomfort Scale: a subjective judgement scale for the assessment of patient thermal state in a cold environment. <i>Journal of Clinical Monitoring and Computing</i> , 2014, 28, 287-291.	0.7	24
40	Occupational heat stress and associated productivity loss estimation using the PHS model (ISO 7933): a case study from workplaces in Chennai, India. <i>Global Health Action</i> , 2014, 7, 25283.	0.7	40
41	A study on local cooling of garments with ventilation fans and openings placed at different torso sites. <i>International Journal of Industrial Ergonomics</i> , 2013, 43, 232-237.	1.5	118
42	Human thermal response with improved AVA modeling of the digits. <i>International Journal of Thermal Sciences</i> , 2013, 67, 41-52.	2.6	55
43	A laboratory validation study of comfort and limit temperatures of four sleeping bags defined according to EN 13537 (2002). <i>Applied Ergonomics</i> , 2013, 44, 321-326.	1.7	19
44	Evaporative cooling: effective latent heat of evaporation in relation to evaporation distance from the skin. <i>Journal of Applied Physiology</i> , 2013, 114, 778-785.	1.2	102
45	The torso cooling of vests incorporated with phase change materials: a sweat evaporation perspective. <i>Textile Research Journal</i> , 2013, 83, 418-425.	1.1	48
46	Footwear for cold weather conditions. , 2013, , 283-317.		3
47	The Universal Thermal Climate Index UTCI Compared to Ergonomics Standards for Assessing the Thermal Environment. <i>Industrial Health</i> , 2013, 51, 16-24.	0.4	98
48	Effects of Heat Stress on Working Populations when Facing Climate Change. <i>Industrial Health</i> , 2013, 51, 3-15.	0.4	209
49	Effects of Various Protective Clothing and Thermal Environments on Heat Strain of Unacclimated Men: the PHS (predicted heat strain) Model Revisited. <i>Industrial Health</i> , 2013, 51, 266-274.	0.4	64
50	Protection against Cold in Prehospital Care: Evaporative Heat Loss Reduction by Wet Clothing Removal or the Addition of a Vapor Barrier—A Thermal Manikin Study. <i>Prehospital and Disaster Medicine</i> , 2012, 27, 53-58.	0.7	34
51	Comments on “Correction of the evaporative resistance of clothing by the temperature of skin fabric on a sweating and walking thermal manikin”. <i>Textile Research Journal</i> , 2012, 82, 1827-1829.	1.1	2
52	Parallel and Serial Methods of Calculating Thermal Insulation in European Manikin Standards. <i>International Journal of Occupational Safety and Ergonomics</i> , 2012, 18, 171-179.	1.1	19
53	Thermal responses to whole-body cooling in air with special reference to arteriovenous anastomoses in fingers. <i>Clinical Physiology and Functional Imaging</i> , 2012, 32, 463-469.	0.5	31
54	Localised boundary air layer and clothing evaporative resistances for individual body segments. <i>Ergonomics</i> , 2012, 55, 799-812.	1.1	43

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55	Personal cooling with phase change materials to improve thermal comfort from a heat wave perspective. <i>Indoor Air</i> , 2012, 22, 523-530.	2.0	144
56	Effect of temperature difference between manikin and wet fabric skin surfaces on clothing evaporative resistance: how much error is there?. <i>International Journal of Biometeorology</i> , 2012, 56, 177-182.	1.3	30
57	Cooling vests with phase change materials: the effects of melting temperature on heat strain alleviation in an extremely hot environment. <i>European Journal of Applied Physiology</i> , 2011, 111, 1207-1216.	1.2	116
58	Can the PHS model (ISO7933) predict reasonable thermophysiological responses while wearing protective clothing in hot environments?. <i>Physiological Measurement</i> , 2011, 32, 239-249.	1.2	61
59	Determination of Clothing Evaporative Resistance on a Sweating Thermal Manikin in an Isothermal Condition: Heat Loss Method or Mass Loss Method?. <i>Annals of Occupational Hygiene</i> , 2011, 55, 775-83.	1.9	43
60	Development and validity of a universal empirical equation to predict skin surface temperature on thermal manikins. <i>Journal of Thermal Biology</i> , 2010, 35, 197-203.	1.1	49
61	The thermal insulation difference of clothing ensembles on the dry and perspiration manikins. <i>Measurement Science and Technology</i> , 2010, 21, 085203.	1.4	5
62	Heat Gain From Thermal Radiation Through Protective Clothing With Different Insulation, Reflectivity and Vapour Permeability. <i>International Journal of Occupational Safety and Ergonomics</i> , 2010, 16, 231-244.	1.1	35
63	A Review of Technology of Personal Heating Garments. <i>International Journal of Occupational Safety and Ergonomics</i> , 2010, 16, 387-404.	1.1	101
64	Testing Sleeping Bags According to EN 13537:2002: Details That Make the Difference. <i>International Journal of Occupational Safety and Ergonomics</i> , 2010, 16, 199-216.	1.1	7
65	Experimental and Theoretical Study of Ventilation and Heat Loss From Isothermally Heated Clothed Vertical Cylinder in Uniform Flow Field. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2010, 77, .	1.1	12
66	Cooling vests with phase change material packs: the effects of temperature gradient, mass and covering area. <i>Ergonomics</i> , 2010, 53, 716-723.	1.1	118
67	Testing Cold Protection According to EN ISO 20344: Is There Any Professional Footwear that Does Not Pass?. <i>Annals of Occupational Hygiene</i> , 2009, 53, 63-8.	1.9	5
68	Protection Against Cold in Prehospital Care—Thermal Insulation Properties of Blankets and Rescue Bags in Different Wind Conditions. <i>Prehospital and Disaster Medicine</i> , 2009, 24, 408-415.	0.7	46
69	Footwear for cold weather conditions. , 2009, , 342-373.		5
70	Protection of Feet in Cold Exposure. <i>Industrial Health</i> , 2009, 47, 242-253.	0.4	41
71	Non-evaporative effects of a wet mid layer on heat transfer through protective clothing. <i>European Journal of Applied Physiology</i> , 2008, 104, 341-349.	1.2	28
72	Apparent latent heat of evaporation from clothing: attenuation and "heat pipe" effects. <i>Journal of Applied Physiology</i> , 2008, 104, 142-149.	1.2	126

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73	Calculation of Clothing Insulation by Serial and Parallel Methods: Effects on Clothing Choice by IREQ and Thermal Responses in the Cold. <i>International Journal of Occupational Safety and Ergonomics</i> , 2007, 13, 103-116.	1.1	31
74	Minute Volumes and Inspiratory Flow Rates During Exhaustive Treadmill Walking Using Respirators. <i>Annals of Occupational Hygiene</i> , 2007, 51, 327-35.	1.9	8
75	Test of Firefighter's Turnout Gear in Hot and Humid Air Exposure. <i>International Journal of Occupational Safety and Ergonomics</i> , 2006, 12, 297-305.	1.1	39
76	Effectiveness of a Light-Weight Ice-Vest for Body Cooling While Wearing Fire Fighter's Protective Clothing in the Heat. <i>International Journal of Occupational Safety and Ergonomics</i> , 2004, 10, 111-117.	1.1	62
77	The Use of Footwear Insulation Values Measured on a Thermal Foot Model. <i>International Journal of Occupational Safety and Ergonomics</i> , 2004, 10, 79-86.	1.1	24
78	Thermal Manikin Measurements – Exact or Not?. <i>International Journal of Occupational Safety and Ergonomics</i> , 2004, 10, 291-300.	1.1	31
79	Comparison of thermal manikins of different body shapes and size. <i>European Journal of Applied Physiology</i> , 2004, 92, 683-688.	1.2	26
80	Relationship Between Clothing Ventilation and Thermal Insulation. <i>AIHA Journal: A Journal for the Science of Occupational and Environmental Health and Safety</i> , 2002, 63, 262-268.	0.4	86
81	A field study in dairy farms: thermal condition of feet. <i>International Journal of Industrial Ergonomics</i> , 2001, 27, 367-373.	1.5	16
82	Validation of a Model for Prediction of Skin Temperatures in Footwear.. <i>Journal of Physiological Anthropology and Applied Human Science</i> , 2000, 19, 29-34.	0.4	16
83	Change of Footwear Insulation at Various Sweating Rates.. <i>Applied Human Science: Journal of Physiological Anthropology</i> , 1999, 18, 161-168.	0.2	24
84	Determination of Heat Loss from the Feet and Insulation of the Footwear. <i>International Journal of Occupational Safety and Ergonomics</i> , 1999, 5, 465-476.	1.1	20
85	A Comparison of Two Methods of Determining Thermal Properties of Footwear. <i>International Journal of Occupational Safety and Ergonomics</i> , 1999, 5, 477-484.	1.1	8
86	Effect of Sweating on Insulation of Footwear. <i>International Journal of Occupational Safety and Ergonomics</i> , 1998, 4, 123-136.	1.1	30
87	Effect of Footwear Insulation on Thermal Responses in the Cold. <i>International Journal of Occupational Safety and Ergonomics</i> , 1998, 4, 137-152.	1.1	21
88	Tactile Sensitivity of Gloved Hands in the Cold Operation.. <i>Applied Human Science: Journal of Physiological Anthropology</i> , 1997, 16, 229-236.	0.2	7