Ingvar HolmÃ©r

List of Publications by Year
in descending order

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79 papers	4,708 citations	126907 33 h-index	98798 67 g-index
85 all docs	85 docs citations	85 times ranked	3032 citing authors

#	Article	IF	Citations
1	Deriving the operational procedure for the Universal Thermal Climate Index (UTCI). International Journal of Biometeorology, 2012, 56, 481-494.	3.0	645
2	Workplace heat stress, health and productivity â€“ an increasing challenge for low and middle-income countries during climate change. Global Health Action, 2009, 2, 2047.	1.9	477
3	Personal factors in thermal comfort assessment: clothing properties and metabolic heat production. Energy and Buildings, 2002, 34, 581-591.	6.7	253
4	The UTCI-clothing model. International Journal of Biometeorology, 2012, 56, 461-470.	3.0	238
5	Effects of Heat Stress on Working Populations when Facing Climate Change. Industrial Health, 2013, 51, 3-15.	1.0	209
6	Thermal manikin history and applications. European Journal of Applied Physiology, 2004, 92, 614-618.	2.5	133
7	Protective Clothing in Hot Environments. Industrial Health, 2006, 44, 404-413.	1.0	133
8	Apparent latent heat of evaporation from clothing: attenuation and â€œheat pipeâ€•effects. Journal of Applied Physiology, 2008, 104, 142-149.	2.5	126
9	Cooling vests with phase change material packs: the effects of temperature gradient, mass and covering area. Ergonomics, 2010, 53, 716-723.	2.1	118
10	A study on local cooling of garments with ventilation fans and openings placed at different torso sites. International Journal of Industrial Ergonomics, 2013, 43, 232-237.	2.6	118
11	Cooling vests with phase change materials: the effects of melting temperature on heat strain alleviation in an extremely hot environment. European Journal of Applied Physiology, 2011, 111, 1207-1216.	2.5	116
12	Evaporative cooling: effective latent heat of evaporation in relation to evaporation distance from the skin. Journal of Applied Physiology, 2013, 114, 778-785.	2.5	102
13	A Review of Technology of Personal Heating Garments. International Journal of Occupational Safety and Ergonomics, 2010, 16, 387-404.	1.9	101
14	The Universal Thermal Climate Index UTCI Compared to Ergonomics Standards for Assessing the Thermal Environment. Industrial Health, 2013, 51, 16-24.	1.0	98
15	Protective clothing and heat stress. Ergonomics, 1995, 38, 166-182.	2.1	94
16	Effects of Various Protective Clothing and Thermal Environments on Heat Strain of Unacclimated Men: the PHS (predicted heat strain) Model Revisited. Industrial Health, 2013, 51, 266-274.	1.0	64
17	Effectiveness of a Light-Weight Ice-Vest for Body Cooling While Wearing Fire Fighterâ€™s Protective Clothing in the Heat. International Journal of Occupational Safety and Ergonomics, 2004, 10, 111-117.	1.9	62
18	Can the PHS model (ISO7933) predict reasonable thermophysiological responses while wearing protective clothing in hot environments?. Physiological Measurement, 2011, 32, 239-249.	2.1	61

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19	Physiological evaluation of the resistance to evaporative heat transfer by clothing. Ergonomics, 1981, 24, 63-74.	2.1	60
20	Heat Exchange and Thermal Insulation Compared in Woolen and Nylon Garments During Wear Trials. Textile Reseach Journal, 1985, 55, 511-518.	2.2	54
21	Face temperature and cardiorespiratory responses to wind in thermoneutral and cool subjects exposed to â^'10 Â°C. European Journal of Applied Physiology, 2000, 83, 449-456.	2.5	54
22	Evaluation of Cold Workplaces: An Overview of Standards for Assessment of Cold Stress. Industrial Health, 2009, 47, 228-234.	1.0	49
23	Development and validity of a universal empirical equation to predict skin surface temperature on thermal manikins. Journal of Thermal Biology, 2010, 35, 197-203.	2.5	49
24	The torso cooling of vests incorporated with phase change materials: a sweat evaporation perspective. Textile Reseach Journal, 2013, 83, 418-425.	2.2	48
25	Protection Against Cold in Prehospital Careâ€"Thermal Insulation Properties of Blankets and Rescue Bags in Different Wind Conditions. Prehospital and Disaster Medicine, 2009, 24, 408-415.	1.3	46
26	Work in the cold. International Archives of Occupational and Environmental Health, 1993, 65, 147-155.	2.3	43
27	Determination of Clothing Evaporative Resistance on a Sweating Thermal Manikin in an Isothermal Condition: Heat Loss Method or Mass Loss Method?. Annals of Occupational Hygiene, 2011, 55, 775-83.	1.9	43
28	Localised boundary air layer and clothing evaporative resistances for individual body segments. Ergonomics, 2012, 55, 799-812.	2.1	43
29	Assessment of cold stress in terms of required clothing insulationâ€"IREQ. International Journal of Industrial Ergonomics, 1988, 3, 159-166.	2.6	41
30	Test of Firefighterâ€™s Turnout Gear in Hot and Humid Air Exposure. International Journal of Occupational Safety and Ergonomics, 2006, 12, 297-305.	1.9	39
31	Assessment of Thermal Conditions in Neonatal Care: Use of a Manikin of Premature Baby Size. American Journal of Perinatology, 1992, 9, 239-246.	1.4	38
32	Heat Gain From Thermal Radiation Through Protective Clothing With Different Insulation, Reflectivity and Vapour Permeability. International Journal of Occupational Safety and Ergonomics, 2010, 16, 231-244.	1.9	35
33	Hand and finger skin temperatures in convective and contact cold exposure. European Journal of Applied Physiology and Occupational Physiology, 1996, 72, 372-379.	1.2	34
34	Dry and Wet Heat Transfer Through Clothing Dependent on the Clothing Properties Under Cold Conditions. International Journal of Occupational Safety and Ergonomics, 2008, 14, 69-76.	1.9	34
35	Protection against Cold in Prehospital Care: Evaporative Heat Loss Reduction by Wet Clothing Removal or the Addition of a Vapor Barrierâ€"A Thermal Manikin Study. Prehospital and Disaster Medicine, 2012, 27, 53-58.	1.3	34
36	Effects of work in cold stores on man. Scandinavian Journal of Work, Environment and Health, 1979, 5, 195-204.	3.4	33

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37	Thermal responses to cold wind of thermoneutral and cooled subjects. European Journal of Applied Physiology, 2000, 81, 397-402.	2.5	31
38	Calculation of Clothing Insulation by Serial and Parallel Methods: Effects on Clothing Choice by IREQ and Thermal Responses in the Cold. International Journal of Occupational Safety and Ergonomics, 2007, 13, 103-116.	1.9	31
39	Climate change and occupational heat stress: methods for assessment. Global Health Action, 2010, 3, 5719.	1.9	31
40	Thermal responses to wholeâ€body cooling in air with special reference to arteriovenous anastomoses in fingers. Clinical Physiology and Functional Imaging, 2012, 32, 463-469.	1.2	31
41	Finger cooling by contact with cold aluminium surfaces ? effects of pressure, mass and whole body thermal balance. European Journal of Applied Physiology and Occupational Physiology, 1994, 69, 55-60.	1.2	30
42	Effect of Sweating on Insulation of Footwear. International Journal of Occupational Safety and Ergonomics, 1998, 4, 123-136.	1.9	30
43	Effect of temperature difference between manikin and wet fabric skin surfaces on clothing evaporative resistance: how much error is there?. International Journal of Biometeorology, 2012, 56, 177-182.	3.0	30
44	Protection Against Cold in Prehospital Care: Wet Clothing Removal or Addition of a Vapor Barrier. Wilderness and Environmental Medicine, 2015, 26, 11-20.	0.9	29
45	A method for dynamic measurement of the resistance to dry heat exchange by footwear. Applied Ergonomics, 1997, 28, 383-388.	3.1	28
46	Manikin measurements versus wear trials of cold protective clothing (Subzero project). European Journal of Applied Physiology, 2004, 92, 619-621.	2.5	28
47	Non-evaporative effects of a wet mid layer on heat transfer through protective clothing. European Journal of Applied Physiology, 2008, 104, 341-349.	2.5	28
48	Effects of Air Velocity and Clothing Combination on Heating Efficiency of an Electrically Heated Vest (EHV): A Pilot Study. Journal of Occupational and Environmental Hygiene, 2010, 7, 501-505.	1.0	28
49	Thermal Aspects of Vehicle Comfort.. Applied Human Science: Journal of Physiological Anthropology, 1995, 14, 159-165.	0.2	26
50	Comparison of thermal manikins of different body shapes and size. European Journal of Applied Physiology, 2004, 92, 683-688.	2.5	26
51	Effects of metabolic rate on thermal responses at different air velocities in â^'10Â°C. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2001, 128, 759-768.	1.8	25
52	hange of Footwear Insulation at Various Sweating Rates.. Applied Human Science: Journal of Physiological Anthropology, 1999, 18, 161-168.	0.2	24
53	Effects of Two Kinds of Underwear on Thermophysiological Responses and Clothing Microclimate during 30 Min Walking and 60 Min Recovery in the Cold.. Applied Human Science: Journal of Physiological Anthropology, 1996, 15, 33-39.	0.2	23
54	Reactions to hand cooling in workers occupationally exposed to cold.. Scandinavian Journal of Work, Environment and Health, 1980, 6, 58-65.	3.4	23

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55	Change in contact temperature of finger touching on cold surfaces. International Journal of Industrial Ergonomics, 2001, 27, 387-391.	2.6	21
56	Determination of Heat Loss from the Feet and Insulation of the Footwear. International Journal of Occupational Safety and Ergonomics, 1999, 5, 465-476.	1.9	20
57	Cooling Responses of Finger in Contact with an Aluminum Surface. AIHA Journal, 1994, 55, 218-222.	0.4	19
58	Cold stress: Part I â€" Guidelines for the practitioner. International Journal of Industrial Ergonomics, 1994, 14, 139-149.	2.6	19
59	Parallel and Serial Methods of Calculating Thermal Insulation in European Manikin Standards. International Journal of Occupational Safety and Ergonomics, 2012, 18, 171-179.	1.9	19
60	Climate Change and Occupational Heat Problems. Industrial Health, 2013, 51, 1-2.	1.0	19
61	Thermal responses at three low ambient temperatures: Validation of the duration limited exposure index. International Journal of Industrial Ergonomics, 1998, 21, 465-474.	2.6	18
62	Evaluation of Evaporative Heat Transfer Characteristics of Helmets.. Applied Human Science: Journal of Physiological Anthropology, 1997, 16, 107-113.	0.2	17
63	Validation of standard ASTM F2732 and comparison with ISO 11079 with respect to comfort temperature ratings for cold protective clothing. Applied Ergonomics, 2015, 46, 44-53.	3.1	17
64	Validation of a Model for Prediction of Skin Temperatures in Footwear.. Journal of Physiological Anthropology and Applied Human Science, 2000, 19, 29-34.	0.4	16
65	Face cooling by cold wind in walking subjects. International Journal of Biometeorology, 2003, 47, 148-155.	3.0	15
66	Assessment of Cold Exposure. International Journal of Circumpolar Health, 2001, 60, 413-421.	1.2	13
67	Cold stress: Part II â€" The scientific basis (knowledge base) for the guide. International Journal of Industrial Ergonomics, 1994, 14, 151-159.	2.6	12
68	Experimental and Theoretical Study of Ventilation and Heat Loss From Isothermally Heated Clothed Vertical Cylinder in Uniform Flow Field. Journal of Applied Mechanics, Transactions ASME, 2010, 77, .	2.2	12
69	A Comparison of Two Methods of Determining Thermal Properties of Footwear. International Journal of Occupational Safety and Ergonomics, 1999, 5, 477-484.	1.9	8
70	Inter-laboratory tests on thermal foot models. Elsevier Ergonomics Book Series, 2005, , 449-457.	0.1	6
71	Testing Cold Protection According to EN ISO 20344: Is There Any Professional Footwear that Does Not Pass?. Annals of Occupational Hygiene, 2009, 53, 63-8.	1.9	5
72	Risk Assessment for Cold Work. Journal of the Human-Environment System, 2008, 11, 1-5.	0.1	5

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73	Assessment of cold stress by calculation of required clothing insulationâ€"IREQ. Elsevier Ergonomics Book Series, 2005, , 503-506.	0.1	2
74	The role of performance tests, manikins and test houses in defining clothing characteristics relevant to risk assessment. Annals of Occupational Hygiene, 1999, , .	1.9	1
75	Cold stress: Part Iâ€" Guidelines for the practitioner * *The recommendations provided in this guide are based on numerous published and unpublished scientific studies and are intended to enhance worker safety and productivity. These recommendations are neither intended to replace existing standards, if any, nor should be treated as standards. Furthermore, this document should not be construed to represent institutional policy.The following individuals participated in the discussion of the earlier version of. Elsevier Ergonomics Book Series, 2000, 1, 347-356.	0.1	1
76	Cold stress: Part II â€" The scientific basis (knowledge base) for the guide. Elsevier Ergonomics Book Series, 2000, 1, 357-365.	0.1	1
77	Evaluation of vehicle climate. Elsevier Ergonomics Book Series, 2005, , 283-288.	0.1	1
78	Comparison of contact cooling while touching cold surfaces with an artificial and human fingers. Elsevier Ergonomics Book Series, 2005, , 181-185.	0.1	1
79	Use of an artificial finger to measure contact temperature on various extremely cold metallic surfaces. Elsevier Ergonomics Book Series, 2005, 3, 187-191.	0.1	0