Hein A M Daanen

List of Publications by Year
in descending order

133 papers	5,206 citations	66315 42 h-index	106281 65 g-index
137 all docs	137 docs citations	137 times ranked	4786 citing authors

#	Article	IF	Citations
1	Evaluation of wireless determination of skin temperature using iButtons. Physiology and Behavior, 2006, 88, 489-497.	1.0	300
2	Finger cold-induced vasodilation: a review. European Journal of Applied Physiology, 2003, 89, 411-426.	1.2	222
3	Circadian and age-related modulation of thermoreception and temperature regulation: mechanisms and functional implications. Ageing Research Reviews, 2002, 1, 721-778.	5.0	173
4	A Systematic Review on Heart-Rate Recovery to Monitor Changes in Training Status in Athletes. International Journal of Sports Physiology and Performance, 2012, 7, 251-260.	1.1	163
5	Exercise under heat stress: thermoregulation, hydration, performance implications, and mitigation strategies. Physiological Reviews, 2021, 101, 1873-1979.	13.1	152
6	Self-reported and measured weight, height and body mass index (BMI) in Italy, the Netherlands and North America. European Journal of Public Health, 2011, 21, 414-419.	0.1	149
7	Heat Acclimation Decay and Re-Induction: A Systematic Review and Meta-Analysis. Sports Medicine, 2018, 48, 409-430.	3.1	143
8	Physiological criteria for functioning of hands in the cold. Applied Ergonomics, 1995, 26, 5-13.	1.7	124
9	The CAESAR project: a 3-D surface anthropometry survey. , 0, , .		109
10	3D whole body scanners revisited. Displays, 2013, 34, 270-275.	2.0	106
11	Driving performance in cold, warm, and thermoneutral environments. Applied Ergonomics, 2003, 34, 597-602.	1.7	96
12	Whole body scanners. Displays, 1998, 19, 111-120.	2.0	94
13	Encapsulated Environment. , 2013, 3, 1363-1391.		90
14	Non-invasive continuous core temperature measurement by zero heat flux. Physiological Measurement, 2011, 32, 559-570.	1.2	89
15	Precision of the CAESAR scan-extracted measurements. Applied Ergonomics, 2006, 37, 259-265.	1.7	88
16	Quantification of the decay and re-induction of heat acclimation in dry-heat following 12 and 26Âdays without exposure to heat stress. European Journal of Applied Physiology, 2007, 102, 57-66.	1.2	85
17	The effect of body temperature on the hunting response of the middle finger skin temperature. European Journal of Applied Physiology, 1997, 76, 538-543.	1.2	80
18	Cold Intolerance of the Hand Measured By the Ciss Questionnaire in a Normative Study Population. Journal of Hand Surgery, 2006, 31, 533-536.	0.9	80

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19	The lever arm in glenohumeral abduction after hemiarthroplasty. Journal of Bone and Joint Surgery: British Volume, 1988, 70-B, 561-565.	3.4	79
20	Effects of anxiety, a cognitive secondary task, and expertise on gaze behavior andÂperformance in a far aiming task. Psychology of Sport and Exercise, 2012, 13, 427-435.	1.1	77
21	Human whole body cold adaptation. Temperature, 2016, 3, 104-118.	1.6	74
22	Validity, Reliability, and Inertia of Four Different Temperature Capsule Systems. Medicine and Science in Sports and Exercise, 2018, 50, 169-175.	0.2	71
23	Telemetry pill versus rectal and esophageal temperature during extreme rates of exercise-induced core temperature change. Physiological Measurement, 2012, 33, 915-924.	1.2	69
24	Reliability of an infrared forehead skin thermometer for core temperature measurements. Journal of Medical Engineering and Technology, 2006, 30, 252-261.	0.8	68
25	Evaluating assumptions of scales for subjective assessment of thermal environments â€“ Do laypersons perceive them the way, we researchers believe?. Energy and Buildings, 2020, 211, 109761.	3.1	68
26	Dynamic Adaptation of the Peripheral Circulation to Cold Exposure. Microcirculation, 2012, 19, 65-77.	1.0	67
27	Prediction of Functional Overreaching From Subjective Fatigue and Readiness to Train After Only 3 Days of Cycling. International Journal of Sports Physiology and Performance, 2017, 12, S2-87-S2-94.	1.1	63
28	Cold Intolerance Following Median and Ulnar Nerve Injuries: Prognosis and Predictors. Journal of Hand Surgery: European Volume, 2007, 32, 434-439.	0.5	56
29	The effect of ambient temperature on gross-efficiency in cycling. European Journal of Applied Physiology, 2007, 101, 465-471.	1.2	54
30	Haptic perception of wetness. Acta Psychologica, 2012, 141, 159-163.	0.7	54
31	The effects of anxiety and exercise-induced fatigue on shooting accuracy and cognitive performance in infantry soldiers. Ergonomics, 2014, 57, 1366-1379.	1.1	54
32	Thermal sensation and thermal comfort in changing environments. Journal of Building Engineering, 2017, 10, 42-46.	1.6	54
33	Quantification of continual anthropogenic pollutants released in swimming pools. Water Research, 2014, 53, 259-270.	5.3	53
34	Optimising the Acquisition and Retention of Heat Acclimation. International Journal of Sports Medicine, 2011, 32, 822-828.	0.8	52
35	Ambient Conditions Prior to Tokyo 2020 Olympic and Paralympic Games: Considerations for Acclimation or Acclimatization Strategies. Frontiers in Physiology, 2019, 10, 414.	1.3	52
36	Madeâ€toâ€measure pattern development based on 3D whole body scans. International Journal of Clothing Science and Technology, 2008, 20, 15-25.	0.5	50

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37	Manual Performance Deterioration in the Cold Estimated Using the Wind Chill Equivalent Temperature. Industrial Health, 2009, 47, 262-270.	0.4	48
38	How to measure thermal effects of personal cooling systems: human, thermal manikin and human simulator study. Physiological Measurement, 2010, 31, 1161-1168.	1.2	48
39	Effect of Thermal State and Thermal Comfort on Cycling Performance in the Heat. International Journal of Sports Physiology and Performance, 2015, 10, 655-663.	1.1	47
40	Specificity of surface-EMG on the intrinsic lumbar back muscles. Human Movement Science, 1989, 8, 67-78.	0.6	46
41	Infrared thermal imaging of the inner canthus of the eye as an estimator of body core temperature. Journal of Medical Engineering and Technology, 2011, 35, 134-138.	0.8	45
42	Reproducibility of the mean power frequency of the surface electromyogram. European Journal of Applied Physiology and Occupational Physiology, 1990, 61, 274-277.	1.2	44
43	Cold-Induced Peripheral Vasodilation at High Altitudes - A Field Study. High Altitude Medicine and Biology, 2000, 1, 323-329.	0.5	44
44	The effect of pre-cooling intensity on cooling efficiency and exercise performance. Journal of Sports Sciences, 2010, 28, 771-779.	1.0	44
45	Functional analysis of patients who have had a modified Van Nes rotationplasty.. Journal of Bone and Joint Surgery - Series A, 1993, 75, 1451-1456.	1.4	44
46	Cold-induced metabolism. Current Opinion in Clinical Nutrition and Metabolic Care, 2003, 6, 469-475.	1.3	43
47	Resistance Index of Frostbite as a predictor of cold injury in arctic operations. Aviation, Space, and Environmental Medicine, 2005, 76, 1119-22.	0.6	43
48	Long Term Adaptation to Heat Stress: Shifts in the Minimum Mortality Temperature in the Netherlands. Frontiers in Physiology, 2020, 11, 225.	1.3	42
49	Evaluation of two cooling systems under a firefighter coverall. Applied Ergonomics, 2014, 45, 1433-1438.	1.7	40
50	Infrared tympanic temperature and ear canal morphology. Journal of Medical Engineering and Technology, 2006, 30, 224-234.	0.8	39
51	Task specificity of finger dexterity tests. Applied Ergonomics, 2009, 40, 145-147.	1.7	39
52	The (in)dependency of blood and sweat sodium, chloride, potassium, ammonia, lactate and glucose concentrations during submaximal exercise. European Journal of Applied Physiology, 2021, 121, 803-816.	1.2	35
53	Phase change materials and the perception of wetness. Ergonomics, 2012, 55, 508-512.	1.1	34
54	Heat Strain and Gross Efficiency During Endurance Exercise after Lower, Upper, or Whole Body Precooling in the Heat. International Journal of Sports Medicine, 2006, 27, 379-388.	0.8	33

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55	The relation between blood lactate and ammonia in ischemic handgrip exercise. Muscle and Nerve, 1985, 8, 523-527.	1.0	32
56	Trainability of cold induced vasodilatation in fingers and toes. European Journal of Applied Physiology, 2012, 112, 2595-2601.	1.2	32
57	COVID-19 and heat waves: New challenges for healthcare systems. Environmental Research, 2021, 198, 111153.	3.7	32
58	Assessing the impact of design strategies on clothing lifetimes, usage and volumes: The case of product personalisation. Journal of Cleaner Production, 2019, 210, 1414-1424.	4.6	31
59	Comparison of two tracer gas dilution methods for the determination of clothing ventilation and of vapour resistance. Ergonomics, 2010, 53, 548-558.	1.1	30
60	Adâ€‰libitum drinking and performance during a 40â€‰km cycling time trial in the heat. European Journal of Sport Science, 2016, 16, 213-220.	1.4	29
61	Effect of Aerobic Training on Heart Rate Recovery in Patients with Established Heart Disease; a Systematic Review. PLoS ONE, 2013, 8, e83907.	1.1	28
62	COVID-19 and thermoregulation-related problems: Practical recommendations. Temperature, 2021, 8, 1-11.	1.6	28
63	Reliability and validity of an instrument for the assessment of bradykinesia. Psychiatry Research, 2016, 238, 189-195.	1.7	26
64	Automatic Feature Detection in 3D Human Body Scans. , 0, , .		25
65	Finger and Toe Temperatures on Exposure to Cold Water and Cold Air. Aviation, Space, and Environmental Medicine, 2008, 79, 941-946.	0.6	25
66	Commentaries on Viewpoint: The two-hour marathon: Who and when?. Journal of Applied Physiology, 2011, 110, 278-293.	1.2	25
67	3D body scanning. , 2018, , 237-252.		25
68	Digital Rewarming Patterns After Median and Ulnar Nerve Injury. Journal of Hand Surgery, 2009, 34, 54-64.	0.7	24
69	The effect of skin temperature on performance during a 7.5-km cycling time trial. European Journal of Applied Physiology, 2012, 112, 3387-3395.	1.2	24
70	Effects of wind application on thermal perception and self-paced performance. European Journal of Applied Physiology, 2013, 113, 1705-1717.	1.2	23
71	Shock absorption of below-knee prostheses: A comparison between the SACH and the Multiflex foot. Journal of Biomechanics, 1990, 23, 441-446.	0.9	22
72	Effect of Warm-Up and Precooling on Pacing During a 15-km Cycling Time Trial in the Heat. International Journal of Sports Physiology and Performance, 2013, 8, 307-311.	1.1	22

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73	Decrease in back strength in asymmetric trunk postures. Ergonomics, 1992, 35, 405-416.	1.1	21
74	Effects of anxiety on running with and without an aiming task. Journal of Sports Sciences, 2012, 30, 11-19.	1.0	20
75	A protocol for evaluating the accuracy of 3D body scanners. Work, 2012, 41, 4010-4017.	0.6	19
76	The Scales Project, a cross-national dataset on the interpretation of thermal perception scales. Scientific Data, 2019, 6, 289.	2.4	19
77	Using Tri-Axial Accelerometry in Daily Elite Swim Training Practice. Sensors, 2017, 17, 990.	2.1	18
78	Application of infrared thermography for the analysis of rewarming in patients with cold intolerance. Scandinavian Journal of Plastic and Reconstructive Surgery and Hand Surgery, 2008, 42, 206-210.	0.6	17
79	Sweat rate and sweat composition during heat acclimation. Journal of Thermal Biology, 2020, 93, 102697.	1.1	17
80	Limitations of temperature measurement in the aural canal with an ear mould integrated sensor. Physiological Measurement, 2011, 32, 1403-1416.	1.2	16
81	Instrumental Assessment of Bradykinesia: A Comparison Between Motor Tasks. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 521-526.	3.9	16
82	Pursue or shoot? Effects of exercise-induced fatigue on the transition from running to rifle shooting in a pursuit task. Ergonomics, 2013, 56, 1877-1888.	1.1	15
83	Determination of clothing microclimate volume. Elsevier Ergonomics Book Series, 2005, 3, 361-365.	0.1	14
84	Effectiveness of an indoor preparation program to increase thermal resilience in elderly for heat waves. Building and Environment, 2015, 83, 115-119.	3.0	14
85	Individual characteristics associated with the magnitude of heat acclimation adaptations. European Journal of Applied Physiology, 2021, 121, 1593-1606.	1.2	14
86	Axon reflexes in human cold exposed fingers. European Journal of Applied Physiology and Occupational Physiology, 2000, 81, 0240.	1.2	13
87	Optimal bus temperature for thermal comfort during a cool day. Applied Ergonomics, 2017, 62, 72-76.	1.7	13
88	Differences in swimming smoothness between elite and non-elite swimmers. Sports Biomechanics, 2023, 22, 675-688.	0.8	13
89	Sex differences in temperature-related all-cause mortality in the Netherlands. International Archives of Occupational and Environmental Health, 2022, 95, 249-258.	1.1	13
90	Effects of radiant heat exposure on pacing pattern during a 15-km cycling time trial. Journal of Sports Sciences, 2014, 32, 845-852.	1.0	12

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91	Comparison of two telemetric intestinal temperature devices with rectal temperature during exercise. Physiological Measurement, 2018, 39, 03NT01.	1.2	12
92	Cardiac Acceleration at the Onset of Exercise: A Potential Parameter for Monitoring Progress During Physical Training in Sports and Rehabilitation. Sports Medicine, 2014, 44, 591-602.	3.1	11
93	The effect of pre-warming on performance during simulated firefighting exercise. Applied Ergonomics, 2014, 45, 1504-1509.	1.7	11
94	Economic valuation of climate changeâ€“induced mortality: age dependent cold and heat mortality in the Netherlands. Climatic Change, 2020, 162, 545-562.	1.7	11
95	Metabolism- and sex-dependent critical WBGT limits at rest and during exercise in the heat. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2021, 321, R295-R302.	0.9	11
96	Cold-induced vasodilatation in cold-intolerant rats after nerve injury. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2013, 66, 1279-1286.	0.5	10
97	Cold-induced vasodilation. European Journal of Applied Physiology, 2009, 105, 663-664.	1.2	9
98	Sweat rate and sweat composition following active or passive heat re-acclimation: A pilot study. Temperature, 2021, 8, 90-104.	1.6	9
99	Heat Reacclimation Using Exercise or Hot Water Immersion. Medicine and Science in Sports and Exercise, 2021, 53, 1517-1528.	0.2	9
100	Subjective Ratings and Performance in the Heat and After Sleep Deprivation. Aviation, Space, and Environmental Medicine, 2013, 84, 701-707.	0.6	8
101	Core temperature affects scalp skin temperature during scalp cooling. International Journal of Dermatology, 2015, 54, 916-921.	0.5	8
102	Performance and thermoregulation of Dutch Olympic and Paralympic athletes exercising in the heat: Rationale and design of the Thermo Tokyo study: The journalTemperaturetoolbox. Temperature, 2021, 8, 209-222.	1.6	8
103	Relation between finger cold-induced vasodilation and rewarming speed after cold exposure. European Journal of Applied Physiology, 2019, 119, 171-180.	1.2	7
104	Care provider assessment of thermal state of children in day-care centers. Building and Environment, 2020, 179, 106915.	3.0	7
105	Hydration for the Tokyo Olympics: to thirst or not to thirst?. British Journal of Sports Medicine, 2021, 55, 410-411.	3.1	7
106	<title>Absolute accuracy of the Cyberware WB4 whole-body scanner</title>. , 1997, , .		6
107	Title is missing!. Current Opinion in Clinical Nutrition and Metabolic Care, 2003, 6, 469-475.	1.3	6
108	Reply to A. D. Flouris and S. S. Cheung reply letter regarding â€œcold-induced vasodilationâ€• European Journal of Applied Physiology, 2010, 108, 215-216.	1.2	6

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109	Blouse sizing using selfâ€reported body dimensions. International Journal of Clothing Science and Technology, 2011, 23, 341-350.	0.5	6
110	Physiological strain and comfort in sports clothing. , 2015, , 153-168.		6
111	Heat Acclimation. , 2019, , 159-178.		6
112	Thermoregulatory burden of elite sailing athletes during exercise in the heat: A pilot study. Temperature, 2019, 6, 66-76.	1.6	6
113	Efficiency of three cooling methods for hyperthermic military personnel linked to water availability. Applied Ergonomics, 2022, 102, 103700.	1.7	6
114	Heart-Rate Recovery After Warm-up in Swimming: A Useful Predictor of Training Heart-Rate Response?. International Journal of Sports Physiology and Performance, 2017, 12, 742-748.	1.1	5
115	Changes in Choice Reaction Time During and After 8 Days Exhaustive Cycling Are Not Related to Changes in Physical Performance. International Journal of Sports Physiology and Performance, 2018, 13, 428-433.	1.1	5
116	The effect of sweat sample storage condition on sweat content. Temperature, 2021, 8, 254-261.	1.6	5
117	Elastic strain energy in the low back muscles during human walking. Anatomy and Embryology, 1989, 180, 99-101.	1.5	4
118	Heat Strain in Personal Protective Clothing: Challenges and Intervention Strategies. NATO Science for Peace and Security Series B: Physics and Biophysics, 2012, , 99-118.	0.2	3
119	Hyperoxia enhances selfâ€paced exercise performance to a greater extent in cool than hot conditions. Experimental Physiology, 2019, 104, 1398-1407.	0.9	3
120	Editorial: The Effects of Climate Change and Environmental Factors on Exercising Children and Youth. Frontiers in Sports and Active Living, 2021, 3, 690171.	0.9	3
121	A Protocol for Evaluating the Accuracy of 3D Body Scanners - Landmark Locations and Surface Shape. , 2012, , .		2
122	Immersion Hypothermia. , 2006, , 481-531.		1
123	Changes in Gross Efficiency During High Intensity Exercise. Medicine and Science in Sports and Exercise, 2010, 42, 556-557.	0.2	1
124	Comments to the term â€œcoldâ€induced vasodilatationâ€•in â€œlaser doppler perfusion imaging of skin territory to reflect autonomic functional recovery following sciatic nerve autografting repair in ratsâ€• Microsurgery, 2013, 33, 83-84.	0.6	1
125	Two isothermal challenges yield comparable physiological and subjective responses. European Journal of Applied Physiology, 2020, 120, 2761-2772.	1.2	1
126	The effect of short and continuous absorbent patch application on local skin temperature underneath. Physiological Measurement, 2021, 42, 045006.	1.2	1

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127	Body Cooling, Modelling and Risk Assessment. , 2014, , 849-853.		1
128	Corrigendum to Volunteer Kinematics and Reaction in Lateral Emergency Maneuver Tests [Stapp Car Crash Journal 57 (2013) 313-342]. , 0, , .		1
129	Poster #S9 ELECTRONIC MEASUREMENT OF MOVEMENT DISORDERS: VALIDITY AND RELIABILITY. Schizophrenia Research, 2014, 153, S91.	1.1	0
130	Holes in wrist patches improve wearing comfort. International Journal of Clothing Science and Technology, 2019, 31, 522-531.	0.5	0
131	Hypothermia Prevention during the Royal Marriage Party in the Amsterdam Arena Stadium. Journal of the Human-Environment System, 2002, 6, 31-37.	0.2	0
132	Warmtehuishouding bij sporten. , 2016, , 89-94.		0
133	Effects of mattress support on sleeping position and low-back pain. Sleep Science and Practice, 2022, 6, .	0.6	0