

# Wouter D Van Marken Lichtenbelt

## List of Publications by Year in descending order

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132  
papers

14,028  
citations

44066

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20358

116  
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134  
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134  
docs citations

134  
times ranked

13279  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cold-Activated Brown Adipose Tissue in Healthy Men. <i>New England Journal of Medicine</i> , 2009, 360, 1500-1508.	27.0	2,981
2	Beige Adipocytes Are a Distinct Type of Thermogenic Fat Cell in Mouse and Human. <i>Cell</i> , 2012, 150, 366-376.	28.9	2,740
3	Cold acclimation recruits human brown fat and increases nonshivering thermogenesis. <i>Journal of Clinical Investigation</i> , 2013, 123, 3395-3403.	8.2	658
4	Short-term cold acclimation improves insulin sensitivity in patients with type 2 diabetes mellitus. <i>Nature Medicine</i> , 2015, 21, 863-865.	30.7	460
5	The Bile Acid Chenodeoxycholic Acid Increases Human Brown Adipose Tissue Activity. <i>Cell Metabolism</i> , 2015, 22, 418-426.	16.2	342
6	Brown Adipose Tissue in Morbidly Obese Subjects. <i>PLoS ONE</i> , 2011, 6, e17247.	2.5	327
7	Evaluation of wireless determination of skin temperature using iButtons. <i>Physiology and Behavior</i> , 2006, 88, 489-497.	2.1	300
8	Implications of nonshivering thermogenesis for energy balance regulation in humans. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R285-R296.	1.8	245
9	The Maastricht Protocol for the Measurement of Body Composition and Energy Expenditure with Labeled Water. <i>Obesity</i> , 1995, 3, 49-57.	4.0	241
10	Short-term Cold Acclimation Recruits Brown Adipose Tissue in Obese Humans. <i>Diabetes</i> , 2016, 65, 1179-1189.	0.6	241
11	Brown Adipose Reporting Criteria in Imaging Studies (BARCIST 1.0): Recommendations for Standardized FDG-PET/CT Experiments in Humans. <i>Cell Metabolism</i> , 2016, 24, 210-222.	16.2	233
12	Thermoregulation during Exercise in the Heat. <i>Sports Medicine</i> , 2007, 37, 669-682.	6.5	198
13	Increase in Brown Adipose Tissue Activity after Weight Loss in Morbidly Obese Subjects. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2012, 97, E1229-E1233.	3.6	185
14	Systemic $\beta^2$ -Adrenergic Stimulation of Thermogenesis Is Not Accompanied by Brown Adipose Tissue Activity in Humans. <i>Diabetes</i> , 2012, 61, 3106-3113.	0.6	169
15	Energy consumption in buildings and female thermal demand. <i>Nature Climate Change</i> , 2015, 5, 1054-1056.	18.8	153
16	Beyond the classic thermoneutral zone. <i>Temperature</i> , 2014, 1, 142-149.	3.0	151
17	Circadian misalignment induces fatty acid metabolism gene profiles and compromises insulin sensitivity in human skeletal muscle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 7789-7794.	7.1	138
18	Exosomal microRNA miR-92a concentration in serum reflects human brown fat activity. <i>Nature Communications</i> , 2016, 7, 11420.	12.8	137

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19	Brown adipose tissue activity after a high-calorie meal in humans. <i>American Journal of Clinical Nutrition</i> , 2013, 98, 57-64.	4.7	134
20	Brown adipose tissue volume in healthy lean south Asian adults compared with white Caucasians: a prospective, case-controlled observational study. <i>Lancet Diabetes and Endocrinology</i> , 2014, 2, 210-217.	11.4	131
21	Cold-activated brown adipose tissue in human adults: methodological issues. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 307, R103-R113.	1.8	131
22	Deuterium dilution as a method for determining total body water: effect of test protocol and sampling time. <i>British Journal of Nutrition</i> , 1994, 72, 491-497.	2.3	118
23	Thermogenic adipocytes promote HDL turnover and reverse cholesterol transport. <i>Nature Communications</i> , 2017, 8, 15010.	12.8	117
24	Human Skeletal Muscle Mitochondrial Uncoupling Is Associated with Cold Induced Adaptive Thermogenesis. <i>PLoS ONE</i> , 2008, 3, e1777.	2.5	113
25	Serum FGF21 levels are associated with brown adipose tissue activity in humans. <i>Scientific Reports</i> , 2015, 5, 10275.	3.3	111
26	ANGPTL4 mediates shuttling of lipid fuel to brown adipose tissue during sustained cold exposure. <i>ELife</i> , 2015, 4, .	6.0	100
27	Heat Production and Body Temperature During Cooling and Rewarming in Overweight and Lean Men. <i>Obesity</i> , 2006, 14, 1914-1920.	3.0	92
28	Cold-Induced Adaptive Thermogenesis in Lean and Obese. <i>Obesity</i> , 2010, 18, 1092-1099.	3.0	91
29	Individual Thermogenic Responses to Mild Cold and Overfeeding Are Closely Related. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2007, 92, 4299-4305.	3.6	86
30	Cold exposure – an approach to increasing energy expenditure in humans. <i>Trends in Endocrinology and Metabolism</i> , 2014, 25, 165-167.	7.1	85
31	Individual variation in body temperature and energy expenditure in response to mild cold. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2002, 282, E1077-E1083.	3.5	81
32	Energy dissipation in brown adipose tissue: From mice to men. <i>Molecular and Cellular Endocrinology</i> , 2013, 379, 43-50.	3.2	77
33	Human whole body cold adaptation. <i>Temperature</i> , 2016, 3, 104-118.	3.0	74
34	Healthy excursions outside the thermal comfort zone. <i>Building Research and Information</i> , 2017, 45, 819-827.	3.9	74
35	Supraclavicular Skin Temperature as a Measure of 18F-FDG Uptake by BAT in Human Subjects. <i>PLoS ONE</i> , 2014, 9, e98822.	2.5	74
36	Imaging Cold-Activated Brown Adipose Tissue Using Dynamic T2*-Weighted Magnetic Resonance Imaging and 2-Deoxy-2-[18F]fluoro-D-glucose Positron Emission Tomography. <i>Investigative Radiology</i> , 2013, 48, 708-714.	6.2	73

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37	Glucose uptake in human brown adipose tissue is impaired upon fasting-induced insulin resistance. <i>Diabetologia</i> , 2015, 58, 586-595.	6.3	72
38	Vagus Nerve Stimulation Increases Energy Expenditure: Relation to Brown Adipose Tissue Activity. <i>PLoS ONE</i> , 2013, 8, e77221.	2.5	71
39	Supraclavicular skin temperature and BAT activity in lean healthy adults. <i>Journal of Physiological Sciences</i> , 2016, 66, 77-83.	2.1	66
40	Thyroid Hormone Activates Brown Adipose Tissue and Increases Non-Shivering Thermogenesis - A Cohort Study in a Group of Thyroid Carcinoma Patients. <i>PLoS ONE</i> , 2016, 11, e0145049.	2.5	64
41	Interactions between the perception of light and temperature. <i>Indoor Air</i> , 2018, 28, 881-891.	4.3	63
42	Digestion in an Ectothermic Herbivore, the Green Iguana ( <i>Iguana iguana</i> ): Effect of Food Composition and Body Temperature. <i>Physiological Zoology</i> , 1992, 65, 649-673.	1.5	62
43	Physical activity, body composition and bone density in ballet dancers. <i>British Journal of Nutrition</i> , 1995, 74, 439-451.	2.3	62
44	Resveratrol improves ex vivo mitochondrial function but does not affect insulin sensitivity or brown adipose tissue in first degree relatives of patients with type 2 diabetes. <i>Molecular Metabolism</i> , 2018, 12, 39-47.	6.5	59
45	Assessment of energy expenditure in overweight women. <i>Medicine and Science in Sports and Exercise</i> , 1998, 30, 1191-1197.	0.4	55
46	Effect of diet composition on leptin concentration in lean subjects. <i>Metabolism: Clinical and Experimental</i> , 1997, 46, 420-424.	3.4	53
47	Assessment of fat-mass loss during weight reduction in obese women. <i>Metabolism: Clinical and Experimental</i> , 1997, 46, 968-975.	3.4	53
48	Body Composition Changes in Bodybuilders: A Method Comparison. <i>Medicine and Science in Sports and Exercise</i> , 2004, 36, 490-497.	0.4	51
49	Validation of an individualised model of human thermoregulation for predicting responses to cold air. <i>International Journal of Biometeorology</i> , 2007, 51, 169-179.	3.0	50
50	Validation of the [1,2-13C]acetate recovery factor for correction of [U-13C]palmitate oxidation rates in humans. <i>Journal of Physiology</i> , 1998, 513, 215-223.	2.9	49
51	Optimal foraging of a herbivorous lizard, the green iguana in a seasonal environment. <i>Oecologia</i> , 1993, 95, 246-256.	2.0	48
52	Combatting type 2 diabetes by turning up the heat. <i>Diabetologia</i> , 2016, 59, 2269-2279.	6.3	48
53	Influence of thermophysiology on thermal behavior: the essentials of categorization. <i>Physiology and Behavior</i> , 2014, 128, 180-187.	2.1	46
54	$\beta$ -Adrenergic Receptor Blockade Does Not Inhibit Cold-Induced Thermogenesis in Humans: Possible Involvement of Brown Adipose Tissue. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011, 96, E598-E605.	3.6	44

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55	Deuterium and Bromide Dilution, and Bioimpedance Spectrometry Independently Show That Growth Hormone-Deficient Adults Have an Enlarged Extracellular Water Compartment Related to Intracellular Water. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1997, 82, 907-911.	3.6	43
56	Cold-induced metabolism. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2003, 6, 469-475.	2.5	43
57	Impaired skeletal muscle mitochondrial function in morbidly obese patients is normalized one year after bariatric surgery. <i>Surgery for Obesity and Related Diseases</i> , 2013, 9, 936-941.	1.2	43
58	Body mass index and daily physical activity in anorexia nervosa. <i>Medicine and Science in Sports and Exercise</i> , 1996, 28, 967-973.	0.4	42
59	Cold-induced heat production preceding shivering. <i>British Journal of Nutrition</i> , 2005, 93, 387-391.	2.3	39
60	Brown adipose tissue and the regulation of nonshivering thermogenesis. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2012, 15, 547-552.	2.5	39
61	The impact of morning light intensity and environmental temperature on body temperatures and alertness. <i>Physiology and Behavior</i> , 2017, 175, 72-81.	2.1	39
62	Correlated colour temperature of morning light influences alertness and body temperature. <i>Physiology and Behavior</i> , 2018, 185, 1-13.	2.1	39
63	Postexercise cooling impairs muscle protein synthesis rates in recreational athletes. <i>Journal of Physiology</i> , 2020, 598, 755-772.	2.9	39
64	Effects of different cooling principles on thermal sensation and physiological responses. <i>Energy and Buildings</i> , 2013, 62, 116-125.	6.7	37
65	Fat balance in obese subjects: role of glycogen stores. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1998, 274, E1027-E1033.	3.5	36
66	The future of brown adipose tissues in the treatment of type 2 diabetes. <i>Diabetologia</i> , 2015, 58, 1704-1707.	6.3	36
67	Brown and beige adipose tissues: phenotype and metabolic potential in mice and men. <i>Journal of Applied Physiology</i> , 2018, 124, 482-496.	2.5	36
68	Early evening light mitigates sleep compromising physiological and alerting responses to subsequent late evening light. <i>Scientific Reports</i> , 2019, 9, 16064.	3.3	36
69	Increased Oxygen Consumption in Human Adipose Tissue From the "Brown Adipose Tissue" Region. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013, 98, E1230-E1234.	3.6	34
70	Human brown adipose tissue: Underestimated target in metabolic disease?. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019, 1864, 104-112.	2.4	33
71	Passive exposure to heat improves glucose metabolism in overweight humans. <i>Acta Physiologica</i> , 2020, 229, e13488.	3.8	33
72	Bodybuilders??? Body Composition: Effect of Nandrolone Decanoate. <i>Medicine and Science in Sports and Exercise</i> , 2004, 36, 484-489.	0.4	31

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73	Genetic Markers of Brown Adipose Tissue Identity and <i>In Vitro</i> Brown Adipose Tissue Activity in Humans. <i>Obesity</i> , 2018, 26, 135-140.	3.0	27
74	Atrial Natriuretic Peptide Orchestrates a Coordinated Physiological Response to Fuel Non-shivering Thermogenesis. <i>Cell Reports</i> , 2020, 32, 108075.	6.4	27
75	Brown adipose tissue functions in humans. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2013, 1831, 1004-1008.	2.4	26
76	ENERGETIC CONSEQUENCES OF FIELD BODY TEMPERATURES IN THE GREEN IGUANA. <i>Ecology</i> , 1997, 78, 297-307.	3.2	25
77	The influence of different cooling techniques and gender on thermal perception. <i>Building Research and Information</i> , 2013, 41, 330-341.	3.9	25
78	Brown Adipose Tissue: A Human Perspective. <i>Handbook of Experimental Pharmacology</i> , 2015, 233, 301-319.	1.8	25
79	Endogenous ways to stimulate brown adipose tissue in humans. <i>Annals of Medicine</i> , 2015, 47, 123-132.	3.8	25
80	Frequent Extreme Cold Exposure and Brown Fat and Cold-Induced Thermogenesis: A Study in a Monozygotic Twin. <i>PLoS ONE</i> , 2014, 9, e101653.	2.5	24
81	Impact of Bariatric Surgery on Carotid Artery Inflammation and the Metabolic Activity in Different Adipose Tissues. <i>Medicine (United States)</i> , 2015, 94, e725.	1.0	24
82	The influence of a moderate temperature drift on thermal physiology and perception. <i>Physiology and Behavior</i> , 2021, 229, 113257.	2.1	24
83	Brown adipose tissue and lipid metabolism imaging. <i>Methods</i> , 2017, 130, 105-113.	3.8	22
84	Building and occupant energetics: a physiological hypothesis. <i>Architectural Science Review</i> , 2013, 56, 48-53.	2.2	21
85	Androgenic-Anabolic Steroid-Induced Body Changes in Strength Athletes. <i>Physician and Sportsmedicine</i> , 2001, 29, 49-66.	2.1	20
86	The effects of a novel personal comfort system on thermal comfort, physiology and perceived indoor environmental quality, and its health implications - Stimulating human thermoregulation without compromising thermal comfort. <i>Indoor Air</i> , 2022, 32, .	4.3	20
87	Effect of L-arginine on energy metabolism, skeletal muscle and brown adipose tissue in South Asian and European prediabetic men: a randomised double-blinded crossover study. <i>Diabetologia</i> , 2019, 62, 112-122.	6.3	18
88	Brown adipose tissue clinical impact of a re-discovered thermogenic organ. <i>Frontiers in Bioscience - Elite</i> , 2013, E5, 823-833.	1.8	17
89	Nicotinamide Riboside Enhances <i>In Vitro</i> Beta-adrenergic Brown Adipose Tissue Activity in Humans. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021, 106, 1437-1447.	3.6	17
90	Effectiveness of personal comfort systems on whole-body thermal comfort - A systematic review on which body segments to target. <i>Energy and Buildings</i> , 2022, 256, 111766.	6.7	17

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91	Synthesis, radiosynthesis and in vitro evaluation of 18F-Bodipy-C16/triglyceride as a dual modal imaging agent for brown adipose tissue. <i>PLoS ONE</i> , 2017, 12, e0182297.	2.5	15
92	Cardiovascular responses to cold and submaximal exercise in patients with coronary artery disease. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 315, R768-R776.	1.8	15
93	Effect of forced-air heaters on perfusion and temperature distribution during and after open-heart surgery. <i>European Journal of Cardio-thoracic Surgery</i> , 2007, 32, 888-895.	1.4	14
94	The effect of warmth acclimation on behaviour, thermophysiology and perception. <i>Building Research and Information</i> , 2017, 45, 800-807.	3.9	14
95	[18F]BODIPY-triglyceride-containing chylomicron-like particles as an imaging agent for brown adipose tissue in vivo. <i>Scientific Reports</i> , 2019, 9, 2706.	3.3	14
96	Fat and carbohydrate balances during adaptation to a high-fat diet. <i>American Journal of Clinical Nutrition</i> , 2000, 72, 1239-1240.	4.7	13
97	Metabolic responses to mild cold acclimation in type 2 diabetes patients. <i>Nature Communications</i> , 2021, 12, 1516.	12.8	13
98	Cold- and Overfeeding-induced Changes in the Human Skeletal Muscle Proteome. <i>Journal of Proteome Research</i> , 2010, 9, 2226-2235.	3.7	12
99	Hot-water immersion does not increase postprandial muscle protein synthesis rates during recovery from resistance-type exercise in healthy, young males. <i>Journal of Applied Physiology</i> , 2020, 128, 1012-1022.	2.5	11
100	The influence of bright and dim light on substrate metabolism, energy expenditure and thermoregulation in insulin-resistant individuals depends on time of day. <i>Diabetologia</i> , 2022, 65, 721-732.	6.3	11
101	Fat Cells Gain New Identities. <i>Science Translational Medicine</i> , 2014, 6, 247fs29.	12.4	10
102	Cold acclimation affects immune composition in skeletal muscle of healthy lean subjects. <i>Physiological Reports</i> , 2015, 3, e12394.	1.7	10
103	Using food quality and retention time to predict digestion efficiency in geese. <i>Wildlife Biology</i> , 2005, 11, 21-29.	1.4	9
104	Human Brown Fat and Obesity: Methodological Aspects. <i>Frontiers in Endocrinology</i> , 2011, 2, 52.	3.5	9
105	Mathematical Modeling of Thermal and Circulatory Effects During Hemodialysis. <i>Artificial Organs</i> , 2012, 36, 797-811.	1.9	8
106	Effect of local skin blood flow during light and medium activities on local skin temperature predictions. <i>Journal of Thermal Biology</i> , 2019, 84, 439-450.	2.5	8
107	Higher Plasma Sclerostin and Lower Wnt Signaling Gene Expression in White Adipose Tissue of Prediabetic South Asian Men Compared with White Caucasian Men. <i>Diabetes and Metabolism Journal</i> , 2020, 44, 326.	4.7	8
108	Gene Expression of Endocannabinoid System Components in Skeletal Muscle and Adipose Tissue of South Asians and White Caucasians with Overweight. <i>Obesity</i> , 2018, 26, 1332-1337.	3.0	7

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109	In Vivo Detection of Human Brown Adipose Tissue During Cold and Exercise by PET/CT. Handbook of Experimental Pharmacology, 2018, 251, 283-298.	1.8	6
110	The effect of cold exposure with shivering on glucose tolerance in healthy men. Journal of Applied Physiology, 2021, 130, 193-205.	2.5	6
111	Amenorrhea in ballet dancers in the Netherlands. Medicine and Science in Sports and Exercise, 1996, 28, 545-550.	0.4	6
112	Resveratrol treatment does not reduce arterial inflammation in males at risk of type 2 diabetes: a randomized crossover trial. Nuklearmedizin - NuclearMedicine, 2022, 61, 33-41.	0.7	6
113	In vitro effects of sitosterol and sitostanol on mitochondrial respiration in human brown adipocytes, myotubes and hepatocytes. European Journal of Nutrition, 2020, 59, 2039-2045.	3.9	5
114	Brown adipose tissue activation is not related to hypermetabolism in emphysematous chronic obstructive pulmonary disease patients. Journal of Cachexia, Sarcopenia and Muscle, 2022, 13, 1329-1338.	7.3	5
115	South Asian men have lower expression of IFN signalling genes in white adipose tissue and skeletal muscle compared with white men. Diabetologia, 2017, 60, 2525-2528.	6.3	4
116	Absence of <sup>18</sup> F-fluorodeoxyglucose uptake using Positron Emission Tomography/Computed Tomography in Madelung's disease: A case report. Clinical Obesity, 2019, 9, e12302.	2.0	4
117	TSH suppression aggravates arterial inflammation – an 18F-FDG PET study in thyroid carcinoma patients. European Journal of Nuclear Medicine and Molecular Imaging, 2019, 46, 1428-1438.	6.4	4
118	Reply to C Grieve and M Henneberg. American Journal of Clinical Nutrition, 1995, 61, 1307-1308.	4.7	3
119	Cardiovascular responses to dynamic and static upper-body exercise in a cold environment in coronary artery disease patients. European Journal of Applied Physiology, 2022, 122, 223-232.	2.5	3
120	Brown adipose tissue uptake of triglyceride-rich lipoprotein-derived fatty acids in diabetic or obese mice under different temperature conditions. EJNMMI Research, 2020, 10, 127.	2.5	3
121	Reply to JR Matthie and P Withers. American Journal of Clinical Nutrition, 1995, 61, 1168-1169.	4.7	2
122	Who is the Iceman?. Temperature, 2017, 4, 202-205.	3.0	2
123	Human Brown Adipose Tissue – A Decade Later. Obesity, 2021, 29, 1099-1101.	3.0	2
124	Reply to LC Ward and B Cornish. American Journal of Clinical Nutrition, 1995, 61, 1166-1167.	4.7	1
125	Tracing human brown fat. Nature Medicine, 2015, 21, 667-668.	30.7	1
126	Short-term discontinuation of vagal nerve stimulation alters 18F-FDG blood pool activity: an exploratory interventional study in epilepsy patients. EJNMMI Research, 2019, 9, 101.	2.5	1



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127	PS1 - 8. Brown adipose tissue volume is markedly lower in healthy lean adolescents from South Asian compared to white Caucasian origin. Nederlands Tijdschrift Voor Diabetologie, 2013, 11, 147-147.	0.0	0
128	Thermal physiology in a changing thermal world. Temperature, 2015, 2, 22-26.	3.0	0
129	Brown adipose tissue: The magic bullet?. Obesity, 2017, 25, 499-499.	3.0	0
130	Brown Adipose Tissue as a Therapeutic Target. , 2017, , 301-317.		0
131	Role of human brown adipose tissue in adaptive thermogenesis. FASEB Journal, 2008, 22, 956.5.	0.5	0
132	Mild cold and overfeeding adaptive thermogenesis: role of mitochondrial uncoupling. FASEB Journal, 2008, 22, 958.12.	0.5	0