Edward L Melanson

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86 7,569 125 39 h-index g-index citations papers 8,873 145 4.3 5.9 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
125	Calibration of the Computer Science and Applications, Inc. accelerometer. <i>Medicine and Science in Sports and Exercise</i> , 1998 , 30, 777-81	1.2	2419
124	Impact of insufficient sleep on total daily energy expenditure, food intake, and weight gain. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5695-700	11.5	496
123	Effect of calcium from dairy and dietary supplements on faecal fat excretion: a meta-analysis of randomized controlled trials. <i>Obesity Reviews</i> , 2009 , 10, 475-86	10.6	213
122	Commercially available pedometers: considerations for accurate step counting. <i>Preventive Medicine</i> , 2004 , 39, 361-8	4.3	209
121	Energy expenditure during sleep, sleep deprivation and sleep following sleep deprivation in adult humans. <i>Journal of Physiology</i> , 2011 , 589, 235-44	3.9	203
120	Dietary Fat Intake and Regulation of Energy Balance: Implications for Obesity. <i>Journal of Nutrition</i> , 2000 , 130, 284S-288S	4.1	199
119	Impact of circadian misalignment on energy metabolism during simulated nightshift work. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17302-7	11.5	176
118	Overview of the determinants of overweight and obesity: current evidence and research issues. <i>Medicine and Science in Sports and Exercise</i> , 1999 , 31, S515-21	1.2	163
117	Effect of High-Intensity Treadmill Exercise on Motor Symptoms in Patients With De Novo Parkinson Disease: A Phase 2 Randomized Clinical Trial. <i>JAMA Neurology</i> , 2018 , 75, 219-226	17.2	158
116	A randomized pilot study comparing zero-calorie alternate-day fasting to daily caloric restriction in adults with obesity. <i>Obesity</i> , 2016 , 24, 1874-83	8	133
115	The effect of endurance training on resting heart rate variability in sedentary adult males. <i>European Journal of Applied Physiology</i> , 2001 , 85, 442-9	3.4	127
114	Automatic detection of swallowing events by acoustical means for applications of monitoring of ingestive behavior. <i>IEEE Transactions on Biomedical Engineering</i> , 2010 , 57, 626-33	5	115
113	Enhanced metabolic efficiency contributes to weight regain after weight loss in obesity-prone rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2004 , 287, R1306-1	5 ^{3.2}	115
112	Non-invasive monitoring of chewing and swallowing for objective quantification of ingestive behavior. <i>Physiological Measurement</i> , 2008 , 29, 525-41	2.9	112
111	Peripheral metabolic responses to prolonged weight reduction that promote rapid, efficient regain in obesity-prone rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006 , 290, R1577-88	3.2	108
110	The relationship between dietary fat and fatty acid intake and body weight, diabetes, and the metabolic syndrome. <i>Annals of Nutrition and Metabolism</i> , 2009 , 55, 229-43	4.5	107
109	Resistance to exercise-induced weight loss: compensatory behavioral adaptations. <i>Medicine and Science in Sports and Exercise</i> , 2013 , 45, 1600-9	1.2	105

108	Variability of measured resting metabolic rate. American Journal of Clinical Nutrition, 2003, 78, 1141-5	7	101
107	The effects of exercise on the neuronal response to food cues. <i>Physiology and Behavior</i> , 2012 , 105, 1028	3-33 ∮	100
106	Effect of exercise intensity on 24-h energy expenditure and nutrient oxidation. <i>Journal of Applied Physiology</i> , 2002 , 92, 1045-52	3.7	94
105	Morning Circadian Misalignment during Short Sleep Duration Impacts Insulin Sensitivity. <i>Current Biology</i> , 2015 , 25, 3004-10	6.3	93
104	Effectiveness of Intermittent Fasting and Time-Restricted Feeding Compared to Continuous Energy Restriction for Weight Loss. <i>Nutrients</i> , 2019 , 11,	6.7	88
103	A comparison of energy expenditure estimation of several physical activity monitors. <i>Medicine and Science in Sports and Exercise</i> , 2013 , 45, 2105-12	1.2	87
102	Ad libitum Weekend Recovery Sleep Fails to Prevent Metabolic Dysregulation during a Repeating Pattern of Insufficient Sleep and Weekend Recovery Sleep. <i>Current Biology</i> , 2019 , 29, 957-967.e4	6.3	81
101	674 Changes in Objectively-Measured Adolescent Sleep and Light Exposure During the COVID-19 Pandemic. <i>Sleep</i> , 2021 , 44, A263-A264	1.1	78
100	Resting heart rate variability in men varying in habitual physical activity. <i>Medicine and Science in Sports and Exercise</i> , 2000 , 32, 1894-901	1.2	76
99	Effect of low- and high-calcium dairy-based diets on macronutrient oxidation in humans. <i>Obesity</i> , 2005 , 13, 2102-12		70
98	Genetic and environmental contributions to obesity. <i>Medical Clinics of North America</i> , 2000 , 84, 333-46	7	69
97	Measurement of the components of nonexercise activity thermogenesis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2001 , 281, E670-5	6	65
96	Effects of exercise on resting-state default mode and salience network activity in overweight/obese adults. <i>NeuroReport</i> , 2013 , 24, 866-71	1.7	57
95	Regular exercise attenuates the metabolic drive to regain weight after long-term weight loss. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009 , 297, R793-802	2 ^{3.2}	56
94	Toward objective monitoring of ingestive behavior in free-living population. <i>Obesity</i> , 2009 , 17, 1971-5	8	55
93	Exercise improves fat metabolism in muscle but does not increase 24-h fat oxidation. <i>Exercise and Sport Sciences Reviews</i> , 2009 , 37, 93-101	6.7	53
92	Mistimed food intake and sleep alters 24-hour time-of-day patterns of the human plasma proteome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E5390-E5399	11.5	52
91	Molecular Transducers of Physical Activity Consortium (MoTrPAC): Mapping the Dynamic Responses to Exercise. <i>Cell</i> , 2020 , 181, 1464-1474	56.2	51

90	Automatic Recognition of Activities of Daily Living Utilizing Insole-Based and Wrist-Worn Wearable Sensors. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018 , 22, 979-988	7.2	49
89	Energy intake estimation from counts of chews and swallows. <i>Appetite</i> , 2015 , 85, 14-21	4.5	47
88	A new approach for flow-through respirometry measurements in humans. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010 , 298, R1571-9	3.2	45
87	Effects of increased meal frequency on fat oxidation and perceived hunger. <i>Obesity</i> , 2013 , 21, 336-43	8	42
86	Body composition and bone mineral density after ovarian hormone suppression with or without estradiol treatment. <i>Menopause</i> , 2015 , 22, 1045-52	2.5	39
85	Direct analysis of IIH and II8O in natural and enriched human urine using laser-based, off-axis integrated cavity output spectroscopy. <i>Analytical Chemistry</i> , 2012 , 84, 9768-73	7.8	39
84	When energy balance is maintained, exercise does not induce negative fat balance in lean sedentary, obese sedentary, or lean endurance-trained individuals. <i>Journal of Applied Physiology</i> , 2009 , 107, 1847-56	3.7	39
83	Physical activity after total knee arthroplasty: A critical review. <i>World Journal of Orthopedics</i> , 2015 , 6, 614-22	2.2	38
82	Resistance and aerobic exercise have similar effects on 24-h nutrient oxidation. <i>Medicine and Science in Sports and Exercise</i> , 2002 , 34, 1793-800	1.2	36
81	Objectively Measured Physical Activity and Sedentary Behavior in Successful Weight Loss Maintainers. <i>Obesity</i> , 2018 , 26, 53-60	8	30
80	Exercise reduces appetite and traffics excess nutrients away from energetically efficient pathways of lipid deposition during the early stages of weight regain. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011 , 301, R656-67	3.2	30
79	Physical Activity Energy Expenditure and Total Daily Energy Expenditure in Successful Weight Loss Maintainers. <i>Obesity</i> , 2019 , 27, 496-504	8	29
78	Regulation of energy expenditure by estradiol in premenopausal women. <i>Journal of Applied Physiology</i> , 2015 , 119, 975-81	3.7	29
77	Reliability and validity of a portable metabolic measurement system. <i>Applied Physiology, Nutrition, and Metabolism</i> , 1996 , 21, 109-19		29
76	QT interval dispersion and resting metabolic rate in chronic anorexia nervosa. <i>International Journal of Eating Disorders</i> , 2005 , 37, 166-70	6.3	28
75	Total daily energy expenditure is increased following a single bout of sprint interval training. <i>Physiological Reports</i> , 2013 , 1, e00131	2.6	27
74	Posture and activity recognition and energy expenditure estimation in a wearable platform. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015 , 19, 1339-46	7.2	26
73	Increasing dietary fat elicits similar changes in fat oxidation and markers of muscle oxidative capacity in lean and obese humans. <i>PLoS ONE</i> , 2012 , 7, e30164	3.7	25

(2005-2010)

72	Detection of food intake from swallowing sequences by supervised and unsupervised methods. <i>Annals of Biomedical Engineering</i> , 2010 , 38, 2766-74	4.7	23
71	Comparison of methods for achieving 24-hour energy balance in a whole-room indirect calorimeter. <i>Obesity</i> , 2003 , 11, 752-9		23
7°	The effects of exercise session timing on weight loss and components of energy balance: midwest exercise trial 2. <i>International Journal of Obesity</i> , 2020 , 44, 114-124	5.5	22
69	Inter- and intraindividual correlations of background abundances of (2)H, (18)O and (17)O in human urine and implications for DLW measurements. <i>European Journal of Clinical Nutrition</i> , 2015 , 69, 1091-8	5.2	21
68	A standard calculation methodology for human doubly labeled water studies. <i>Cell Reports Medicine</i> , 2021 , 2, 100203	18	21
67	Changes in 24-h substrate oxidation in older and younger men in response to exercise. <i>Journal of Applied Physiology</i> , 2007 , 103, 1576-82	3.7	19
66	Room Indirect Calorimetry Operating and Reporting Standards (RICORS 1.0): A Guide to Conducting and Reporting Human Whole-Room Calorimeter Studies. <i>Obesity</i> , 2020 , 28, 1613-1625	8	19
65	Determining the Accuracy and Reliability of Indirect Calorimeters Utilizing the Methanol Combustion Technique. <i>Nutrition in Clinical Practice</i> , 2018 , 33, 206-216	3.6	15
64	Exercise-related changes in between-network connectivity in overweight/obese adults. <i>Physiology and Behavior</i> , 2016 , 158, 60-7	3.5	15
63	Nitrogen balance in older individuals in energy balance depends on timing of protein intake. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2010 , 65, 1068-76	6.4	15
62	No consistent evidence of a disproportionately low resting energy expenditure in long-term successful weight-loss maintainers. <i>American Journal of Clinical Nutrition</i> , 2018 , 108, 658-666	7	15
61	Daytime bright light exposure, metabolism, and individual differences in wake and sleep energy expenditure during circadian entrainment and misalignment. <i>Neurobiology of Sleep and Circadian Rhythms</i> , 2018 , 4, 49-56	2.9	14
60	Accuracy Of Fitbit Activity Monitor To Predict Energy Expenditure With And Without Classification Of Activities. <i>Medicine and Science in Sports and Exercise</i> , 2011 , 43, 62	1.2	14
59	Modulation of Energy Expenditure by Estrogens and Exercise in Women. <i>Exercise and Sport Sciences Reviews</i> , 2018 , 46, 232-239	6.7	14
58	Higher amounts of sedentary time are associated with short sleep duration and poor sleep quality in postmenopausal women. <i>Sleep</i> , 2019 , 42,	1.1	13
57	Influence of Estradiol Status on Physical Activity in Premenopausal Women. <i>Medicine and Science in Sports and Exercise</i> , 2018 , 50, 1704-1709	1.2	13
56	Exercise responses to running and in-line skating at self-selected paces. <i>Medicine and Science in Sports and Exercise</i> , 1996 , 28, 247-50	1.2	13
55	Twenty-four-hour metabolic responses to resistance exercise in women. <i>Journal of Strength and Conditioning Research</i> , 2005 , 19, 61-6	3.2	12

54	Development of a real time activity monitoring Android application utilizing SmartStep. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 1886-1889	0.9	10
53	Physiological determinants of walking effort in older adults: should they be targets for physical activity intervention?. <i>GeroScience</i> , 2018 , 40, 305-315	8.9	9
52	The In Vivo Net Energy Content of Resistant Starch and Its Effect on Macronutrient Oxidation in Healthy Adults. <i>Nutrients</i> , 2019 , 11,	6.7	8
51	Dermal Calcium Loss Is Not the Primary Determinant of Parathyroid Hormone Secretion during Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2019 , 51, 2117-2124	1.2	8
50	Improving Physical Activity Through Adjunct Telerehabilitation Following Total Knee Arthroplasty: Randomized Controlled Trial Protocol. <i>Physical Therapy</i> , 2019 , 99, 37-45	3.3	8
49	Body composition and cardiometabolic health across the menopause transition <i>Obesity</i> , 2022 , 30, 14-7	278	8
48	Validation of the doubly labeled water method using off-axis integrated cavity output spectroscopy and isotope ratio mass spectrometry. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018 , 314, E124-E130	6	7
47	Estimating energy expenditure using heat flux measured at a single body site. <i>Medicine and Science in Sports and Exercise</i> , 2014 , 46, 2159-67	1.2	7
46	Energy balance changes the anabolic effect of postexercise feeding in older individuals. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2012 , 67, 1161-9	6.4	6
45	Changes in VO2max and maximal treadmill time after 9 wk of running or in-line skate training. <i>Medicine and Science in Sports and Exercise</i> , 1996 , 28, 1422-6	1.2	6
44	Developing preliminary blood metabolomics-based biomarkers of insufficient sleep in humans. <i>Sleep</i> , 2020 , 43,	1.1	6
43	Compensation for cold-induced thermogenesis during weight loss maintenance and regain. American Journal of Physiology - Endocrinology and Metabolism, 2019, 316, E977-E986	6	5
42	The Impact of Timing of Exercise Initiation on Weight Loss: An 18-Month Randomized Clinical Trial. <i>Obesity</i> , 2019 , 27, 1828-1838	8	5
41	Posture and activity recognition and energy expenditure prediction in a wearable platform. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 4163-7	0.9	5
40	Effect of frequent interruptions of sedentary time on nutrient metabolism in sedentary overweight male and female adults. <i>Journal of Applied Physiology</i> , 2019 , 126, 984-992	3.7	5
39	Device-measured physical activity data for classification of patients with ventricular arrhythmia events: A pilot investigation. <i>PLoS ONE</i> , 2018 , 13, e0206153	3.7	5
38	One size fits all electronics for insole-based activity monitoring. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 3564-3567	0.9	4
37	A novel approach for measuring energy expenditure in free-living humans. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 6873-7	0.9	4

(2012-2020)

36	Maximizing precision and accuracy of the doubly labeled water method via optimal sampling protocol, calculation choices, and incorporation of O measurements. <i>European Journal of Clinical Nutrition</i> , 2020 , 74, 454-464	5.2	4
35	A Model of Adolescent Sleep Health and Risk for Type 2 Diabetes. <i>Current Diabetes Reports</i> , 2021 , 21, 4	5.6	4
34	Bone turnover marker responses to sleep restriction and weekend recovery sleep. <i>Bone</i> , 2021 , 152, 110	60 р я	4
33	Impact of Combined Hormonal Contraceptive Use on Weight Loss: A Secondary Analysis of a Behavioral Weight-Loss Trial. <i>Obesity</i> , 2020 , 28, 1040-1049	8	4
32	Validation of bioelectrical impedance analysis to hydrostatic weighing in male body builders. <i>Acta Diabetologica</i> , 2010 , 47, 55-8	3.9	3
31	Appetite and Energy Intake Regulation in Response to Acute Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2021 , 53, 2173-2181	1.2	3
30	Motor-Driven (Passive) Cycling: A Potential Physical Inactivity Countermeasure?. <i>Medicine and Science in Sports and Exercise</i> , 2016 , 48, 1821-8	1.2	2
29	Examining the Role of Exercise Timing in Weight Management: A Review. <i>International Journal of Sports Medicine</i> , 2021 , 42, 967-978	3.6	2
28	Does MDS-UPDRS Provide Greater Sensitivity to Mild Disease than UPDRS in De Novo Parkinson's Disease?. <i>Movement Disorders Clinical Practice</i> , 2021 , 8, 1092-1099	2.2	2
27	Early Morning Food Intake as a Risk Factor for Metabolic Dysregulation. <i>Nutrients</i> , 2020 , 12,	6.7	1
26	Multiomic Predictors of Short-Term Weight Loss and Clinical Outcomes During a Behavioral-Based Weight Loss Intervention. <i>Obesity</i> , 2021 , 29, 859-869	8	1
25	Predictors of long-term weight loss trajectories during a behavioral weight loss intervention: An exploratory analysis. <i>Obesity Science and Practice</i> , 2021 , 7, 569-582	2.6	1
24	Letter to the Editor: "Twice as High Diet-Induced Thermogenesis After Breakfast vs Dinner on High-Calorie as Well as Low-Calorie Meals". <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020 , 105,	5.6	1
23	Underreporting of energy intake in weight loss maintainers. <i>American Journal of Clinical Nutrition</i> , 2021 , 114, 257-266	7	1
22	The effects of acute exercise on appetite and energy intake in men and women. <i>Physiology and Behavior</i> , 2021 , 241, 113562	3.5	1
21	A Randomized Controlled Trial of Ovarian Suppression in Premenopausal Women: No Change in Free-Living Energy Expenditure. <i>Obesity</i> , 2020 , 28, 2125-2133	8	1
20	Associations between neuromuscular function and levels of physical activity differ for boys and girls during puberty. <i>Journal of Pediatrics</i> , 2013 , 163, 349-54	3.6	О
19	Variable factors of total daily energy expenditure in humans. <i>The Journal of Physical Fitness and Sports Medicine</i> , 2012 , 1, 389-399	0.5	O

18	Effects of Complementary Feeding With Different Protein-Rich Foods on Infant Growth and Gut Health: Study Protocol <i>Frontiers in Pediatrics</i> , 2021 , 9, 793215	3.4	0
17	Temporal patterns of physical activity in successful weight loss maintainers. <i>International Journal of Obesity</i> , 2021 , 45, 2074-2082	5.5	О
16	Weight and body composition changes affect resting energy expenditure predictive equations during a 12-month weight-loss intervention. <i>Obesity</i> , 2021 , 29, 1596-1605	8	O
15	0108 Insufficient Sleep Alters After-Dinner Consumption of High-Carbohydrate Snacks. <i>Sleep</i> , 2019 , 42, A44-A45	1.1	
14	0041 Preliminary Identification and Validation of a Plasma Metabolome-Based Biomarker for Circadian Phase in Humans. <i>Sleep</i> , 2019 , 42, A17-A17	1.1	
13	Letter to the Editor from Melanson et al (second letter): "Twice as High Diet-Induced Thermogenesis After Breakfast vs Dinner on High-Calorie as Well as Low-Calorie Meals". <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020 , 105,	5.6	
12	Measurement Of Daily Energy Expenditure In Humans Using A Body-worn Calorimter. <i>Medicine and Science in Sports and Exercise</i> , 2017 , 49, 579	1.2	
11	Sex differences in time to task failure during early pubertal development. <i>Muscle and Nerve</i> , 2014 , 49, 887-94	3.4	
10	Effects Of Moderate Versus Vigorous Intensity Exercise Training In Older Adults With Prediabetes. <i>Medicine and Science in Sports and Exercise</i> , 2020 , 52, 839-840	1.2	
9	Physiological changes in sixth graders who trained to walk the Boston marathon. <i>Journal of Sports Science and Medicine</i> , 2002 , 1, 128-35	2.7	
8	Sex Differences and Impact of Overeating and Insufficient Sleep on 24-Hour Free Fatty Acid Profiles. <i>Diabetes</i> , 2018 , 67, 2448-PUB	0.9	
7	Elevated FGF21 during insufficient sleep in active but not sedentary volunteers. <i>FASEB Journal</i> , 2019 , 33, lb565	0.9	
6	The Prevalence Of Meeting 2008 Versus 2018 Physical Activity Guidelines In Adults With Overweight/obesity. <i>Medicine and Science in Sports and Exercise</i> , 2020 , 52, 547-548	1.2	
5	Intermittent Walking has Similar Effects on 24-Hour Glycemia as a Calorically Equivalent Continuous Walk in Older Adults. <i>Medicine and Science in Sports and Exercise</i> , 2017 , 49, 1	1.2	
4	Physical Activity and Sedentary Behavior of Older Adults Related to Physiological Metrics of Walking Effort. <i>Medicine and Science in Sports and Exercise</i> , 2017 , 49, 3	1.2	
3	A New Respirometry Technique for Room Calorimetry and Other Long-Duration Recordings. <i>FASEB Journal</i> , 2010 , 24, lb633	0.9	
2	Response to "Two Functional Calorimetric Chambers in France Complete the Room Indirect Calorimetry Operating and Reporting Guidelines (RICORS) 1.0 Guide List". <i>Obesity</i> , 2021 , 29, 632-633	8	
1	0290 Associations between sleep duration and sedentary behavior in healthy, young adults. <i>Sleep</i> , 2022 , 45, A131-A131	1.1	