

Edward L Melanson

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

125
papers

7,569
citations

39
h-index

86
g-index

145
ext. papers

8,873
ext. citations

4.3
avg, IF

5.9
L-index

#	Paper	IF	Citations
125	Body composition and cardiometabolic health across the menopause transition.. <i>Obesity</i> , 2022 , 30, 14-27		8
124	Associations between sleep duration and sedentary behavior in healthy, young adults. <i>Sleep</i> , 2022 , 45, A131-A131	1.1	
123	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
122	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	
121	Multiomc 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
120	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
119	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
118	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
117	Changes in Objectively-Measured Adolescent Sleep and Light Exposure During the COVID-19 Pandemic. <i>Sleep</i> , 2021 , 44, A263-A264	1.1	78
116	Temporal patterns of physical activity in successful weight loss maintainers. <i>International Journal of Obesity</i> , 2021 , 45, 2074-2082	5.5	0
115	A Model of Adolescent Sleep Health and Risk for Type 2 Diabetes. <i>Current Diabetes Reports</i> , 2021 , 21, 4	5.6	4
114	A standard calculation methodology for human doubly labeled water studies. <i>Cell Reports Medicine</i> , 2021 , 2, 100203	18	21
113	Underreporting of energy intake in weight loss maintainers. <i>American Journal of Clinical Nutrition</i> , 2021 , 114, 257-266	7	1
112	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	0
111	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
110	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
109	Bone turnover marker responses to sleep restriction and weekend recovery sleep. <i>Bone</i> , 2021 , 152, 116096	4.7	4

108	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	
107	Early Morning Food Intake as a Risk Factor for Metabolic Dysregulation. <i>Nutrients</i> , 2020 , 12,	6.7	1
106	Molecular Transducers of Physical Activity Consortium (MoTrPAC): Mapping the Dynamic Responses to Exercise. <i>Cell</i> , 2020 , 181, 1464-1474	56.2	51
105	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	
104	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	
103	Developing preliminary blood metabolomics-based biomarkers of insufficient sleep in humans. <i>Sleep</i> , 2020 , 43,	1.1	6
102	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
101	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
100	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
99	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
98	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
97	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
96	0108 Insufficient Sleep Alters After-Dinner Consumption of High-Carbohydrate Snacks. <i>Sleep</i> , 2019 , 42, A44-A45	1.1	
95	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
94	Compensation for cold-induced thermogenesis during weight loss maintenance and regain. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019 , 316, E977-E986	6	5
93	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	
92	Physical Activity Energy Expenditure and Total Daily Energy Expenditure in Successful Weight Loss Maintainers. <i>Obesity</i> , 2019 , 27, 496-504	8	29
91	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

90	Effectiveness of Intermittent Fasting and Time-Restricted Feeding Compared to Continuous Energy Restriction for Weight Loss. <i>Nutrients</i> , 2019 , 11,	6.7	88
89	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
88	Elevated FGF21 during insufficient sleep in active but not sedentary volunteers. <i>FASEB Journal</i> , 2019 , 33, 1b565	0.9	
87	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
86	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
85	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
84	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
83	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
82	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
81	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
80	Objectively Measured Physical Activity and Sedentary Behavior in Successful Weight Loss Maintainers. <i>Obesity</i> , 2018 , 26, 53-60	8	30
79	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
78	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
77	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	
76	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
75	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
74	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
73	Modulation of Energy Expenditure by Estrogens and Exercise in Women. <i>Exercise and Sport Sciences Reviews</i> , 2018 , 46, 232-239	6.7	14

72	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
71	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
70	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
69	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	
68	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	
67	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	
66	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
65	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
64	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
63	Exercise-related changes in between-network connectivity in overweight/obese adults. <i>Physiology and Behavior</i> , 2016 , 158, 60-7	3.5	15
62	Regulation of energy expenditure by estradiol in premenopausal women. <i>Journal of Applied Physiology</i> , 2015 , 119, 975-81	3.7	29
61	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
60	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
59	Energy intake estimation from counts of chews and swallows. <i>Appetite</i> , 2015 , 85, 14-21	4.5	47
58	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
57	Physical activity after total knee arthroplasty: A critical review. <i>World Journal of Orthopedics</i> , 2015 , 6, 614-22	2.2	38
56	Morning Circadian Misalignment during Short Sleep Duration Impacts Insulin Sensitivity. <i>Current Biology</i> , 2015 , 25, 3004-10	6.3	93
55	Impact of circadian misalignment on energy metabolism during simulated nightshift work. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 17302-7	11.5	176

54	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
53	Sex differences in time to task failure during early pubertal development. <i>Muscle and Nerve</i> , 2014 , 49, 887-94	3.4	
52	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
51	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	0
50	Effects of increased meal frequency on fat oxidation and perceived hunger. <i>Obesity</i> , 2013 , 21, 336-43	8	42
49	Impact of insufficient sleep on total daily energy expenditure, food intake, and weight gain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 5695-700	11.5	496
48	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
47	Total daily energy expenditure is increased following a single bout of sprint interval training. <i>Physiological Reports</i> , 2013 , 1, e00131	2.6	27
46	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
45	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
44	The effects of exercise on the neuronal response to food cues. <i>Physiology and Behavior</i> , 2012 , 105, 1028-34	3.4	100
43	Direct analysis of δH and $\delta^{18}\text{O}$ 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
42	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	0
41	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
40	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
39	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
38	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
37	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

36	Nitrogen balance in older individuals in energy balance depends on timing of protein intake. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2010 , 65, 1068-76	6.4	15
35	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
34	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
33	Validation of bioelectrical impedance analysis to hydrostatic weighing in male body builders. <i>Acta Diabetologica</i> , 2010 , 47, 55-8	3.9	3
32	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
31	A New Respirometry Technique for Room Calorimetry and Other Long-Duration Recordings. <i>FASEB Journal</i> , 2010 , 24, lb633	0.9	
30	Regular exercise attenuates the metabolic drive to regain weight after long-term weight loss. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009 , 297, R793-802	3.2	56
29	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
28	Toward objective monitoring of ingestive behavior in free-living population. <i>Obesity</i> , 2009 , 17, 1971-5	8	55
27	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
26	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
25	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
24	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
23	Non-invasive monitoring of chewing and swallowing for objective quantification of ingestive behavior. <i>Physiological Measurement</i> , 2008 , 29, 525-41	2.9	112
22	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
21	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
20	Effect of low- and high-calcium dairy-based diets on macronutrient oxidation in humans. <i>Obesity</i> , 2005 , 13, 2102-12		70
19	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

18	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
17	Enhanced metabolic efficiency contributes to weight regain after weight loss in obesity-prone rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2004 , 287, R1306-15	3.2	115
16	Commercially available pedometers: considerations for accurate step counting. <i>Preventive Medicine</i> , 2004 , 39, 361-8	4.3	209
15	Variability of measured resting metabolic rate. <i>American Journal of Clinical Nutrition</i> , 2003 , 78, 1141-5	7	101
14	Comparison of methods for achieving 24-hour energy balance in a whole-room indirect calorimeter. <i>Obesity</i> , 2003 , 11, 752-9		23
13	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
12	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
11	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	
10	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
9	Measurement of the components of nonexercise activity thermogenesis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2001 , 281, E670-5	6	65
8	Dietary Fat Intake and Regulation of Energy Balance: Implications for Obesity. <i>Journal of Nutrition</i> , 2000 , 130, 284S-288S	4.1	199
7	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
6	Genetic and environmental contributions to obesity. <i>Medical Clinics of North America</i> , 2000 , 84, 333-46	7	69
5	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
4	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
3	Reliability and validity of a portable metabolic measurement system. <i>Applied Physiology, Nutrition, and Metabolism</i> , 1996 , 21, 109-19		29
2	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
1	Changes in VO ₂ max 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

