Kevin D Hall

List of Publications by Citations

102 papers	10,198 citations	41 h-index	100 g-index
113 ext. papers	12,427 ext. citations	10.9 avg, IF	6.69 L-index

#	Paper	IF	Citations
102	The global obesity pandemic: shaped by global drivers and local environments. *Lancet, The*, **2011**, 378, 804-14	40	2717
101	Quantification of the effect of energy imbalance on bodyweight. *Lancet, The*, **2011**, 378, 826-37	40	688
100	Child and adolescent obesity: part of a bigger picture. *Lancet, The*, **2015**, 385, 2510-20	40	637
99	Ultra-Processed Diets Cause Excess Calorie Intake and Weight Gain: An Inpatient Randomized Controlled Trial of Ad Libitum Food Intake. *Cell Metabolism*, **2019**, 30, 67-77.e3	24.6	424
98	The progressive increase of food waste in America and its environmental impact. *PLoS ONE*, **2009**, 4, e7940	3.7	387
97	Energy balance and its components: implications for body weight regulation. *American Journal of Clinical Nutrition*, **2012**, 95, 989-94	7	374
96	Persistent metabolic adaptation 6 years after "The Biggest Loser" competition. *Obesity*, **2016**, 24, 1612-18	8	337
95	NIH working group report: Innovative research to improve maintenance of weight loss. *Obesity*, **2015**, 23, 7-15	8	304
94	Management of obesity: improvement of health-care training and systems for prevention and care. *Lancet, The*, **2015**, 385, 2521-33	40	250
93	Energy Balance After Sodium-Glucose Cotransporter 2 Inhibition. *Diabetes Care*, **2015**, 38, 1730-5	14.6	203
92	A viscerally driven cachexia syndrome in patients with advanced colorectal cancer: contributions of organ and tumor mass to whole-body energy demands. *American Journal of Clinical Nutrition*, **2009**, 89, 1173-9	7	184
91	Energy expenditure and body composition changes after an isocaloric ketogenic diet in overweight and obese men. *American Journal of Clinical Nutrition*, **2016**, 104, 324-33	7	171
90	Maintenance of Lost Weight and Long-Term Management of Obesity. *Medical Clinics of North America*, **2018**, 102, 183-197	7	170
89	Obesity Energetics: Body Weight Regulation and the Effects of Diet Composition. *Gastroenterology*, **2017**, 152, 1718-1727.e3	13.3	167
88	Increased food energy supply as a major driver of the obesity epidemic: a global analysis. *Bulletin of the World Health Organization*, **2015**, 93, 446-56	8.2	159
87	Calorie for Calorie, Dietary Fat Restriction Results in More Body Fat Loss than Carbohydrate Restriction in People with Obesity. *Cell Metabolism*, **2015**, 22, 427-36	24.6	156
86	Metabolic slowing with massive weight loss despite preservation of fat-free mass. *Journal of Clinical Endocrinology and Metabolism*, **2012**, 97, 2489-96	5.6	150

85	What is the required energy deficit per unit weight loss?. *International Journal of Obesity*, **2008**, 32, 573-6	5.5	139
84	Self-report-based estimates of energy intake offer an inadequate basis for scientific conclusions. *American Journal of Clinical Nutrition*, **2013**, 97, 1413-5	7	137
83	Predicting metabolic adaptation, body weight change, and energy intake in humans. *American Journal of Physiology - Endocrinology and Metabolism*, **2010**, 298, E449-66	6	131
82	Ketogenic Diets Alter the Gut Microbiome Resulting in Decreased Intestinal Th17 Cells. *Cell*, **2020**, 181, 1263-1275.e16	56.2	126
81	Measuring weight outcomes for obesity intervention strategies: the case of a sugar-sweetened beverage tax. *Economics and Human Biology*, **2011**, 9, 329-41	2.6	120
80	How Strongly Does Appetite Counter Weight Loss? Quantification of the Feedback Control of Human Energy Intake. *Obesity*, **2016**, 24, 2289-2295	8	105
79	Persistent diet-induced obesity in male C57BL/6 mice resulting from temporary obesigenic diets. *PLoS ONE*, **2009**, 4, e5370	3.7	101
78	Dynamics of childhood growth and obesity: development and validation of a quantitative mathematical model. *Lancet Diabetes and Endocrinology,the*, **2013**, 1, 97-105	18.1	92
77	Computational model of in vivo human energy metabolism during semistarvation and refeeding. *American Journal of Physiology - Endocrinology and Metabolism*, **2006**, 291, E23-37	6	92
76	The dynamics of human body weight change. *PLoS Computational Biology*, **2008**, 4, e1000045	5	91
75	Did the Food Environment Cause the Obesity Epidemic?. *Obesity*, **2018**, 26, 11-13	8	83
74	Modeling weight-loss maintenance to help prevent body weight regain. *American Journal of Clinical Nutrition*, **2008**, 88, 1495-503	7	81
73	Body fat and fat-free mass inter-relationships: Forbes's theory revisited. *British Journal of Nutrition*, **2007**, 97, 1059-63	3.6	81
72	Basal Ganglia Dysfunction Contributes to Physical Inactivity in Obesity. *Cell Metabolism*, **2017**, 25, 312-321	24.6	62
71	Nutritional systems biology modeling: from molecular mechanisms to physiology. *PLoS Computational Biology*, **2009**, 5, e1000554	5	62
70	Metabolic adaptation following massive weight loss is related to the degree of energy imbalance and changes in circulating leptin. *Obesity*, **2014**, 22, 2563-9	8	57
69	Validation of an inexpensive and accurate mathematical method to measure long-term changes in free-living energy intake. *American Journal of Clinical Nutrition*, **2015**, 102, 353-8	7	51
68	Dynamic interplay among homeostatic, hedonic, and cognitive feedback circuits regulating body weight. *American Journal of Public Health*, **2014**, 104, 1169-75	5.1	49

67	Modeling metabolic adaptations and energy regulation in humans. *Annual Review of Nutrition*, **2012**, 32, 35-54	9.9	49
66	Glucose and Lipid Homeostasis and Inflammation in Humans Following an Isocaloric Ketogenic Diet. *Obesity*, **2019**, 27, 971-981	8	45
65	Advances in the science and application of body composition measurement. *Journal of Parenteral and Enteral Nutrition*, **2012**, 36, 96-107	4.2	45
64	Predicting changes of body weight, body fat, energy expenditure and metabolic fuel selection in C57BL/6 mice. *PLoS ONE*, **2011**, 6, e15961	3.7	45
63	Estimating the continuous-time dynamics of energy and fat metabolism in mice. *PLoS Computational Biology*, **2009**, 5, e1000511	5	44
62	The ventral pallidum and orbitofrontal cortex support food pleasantness inferences. *Brain Structure and Function*, **2014**, 219, 473-83	4	41
61	Estimating changes in free-living energy intake and its confidence interval. *American Journal of Clinical Nutrition*, **2011**, 94, 66-74	7	38
60	Effect of a plant-based, low-fat diet versus an animal-based, ketogenic diet on ad libitum energy intake. *Nature Medicine*, **2021**, 27, 344-353	50.5	35
59	The Carbohydrate-Insulin Model of Obesity Is Difficult to Reconcile With Current Evidence. *JAMA Internal Medicine*, **2018**, 178, 1103-1105	11.5	33
58	Nutrition and the science of disease prevention: a systems approach to support metabolic health. *Annals of the New York Academy of Sciences*, **2015**, 1352, 1-12	6.5	31
57	Mechanisms of metabolic fuel selection: modeling human metabolism and body-weight change. *IEEE Engineering in Medicine and Biology Magazine*, **2010**, 29, 36-41		30
56	Weight loss diet studies: we need help not hype. *Lancet, The*, **2016**, 388, 849-51	40	29
55	Hypertrophy-driven adipocyte death overwhelms recruitment under prolonged weight gain. *Biophysical Journal*, **2010**, 99, 3535-44	2.9	28
54	Mathematical modelling of energy expenditure during tissue deposition. *British Journal of Nutrition*, **2010**, 104, 4-7	3.6	28
53	Increases in Physical Activity Result in Diminishing Increments in Daily Energy Expenditure in Mice. *Current Biology*, **2017**, 27, 423-430	6.3	27
52	Methodologic considerations for measuring energy expenditure differences between diets varying in carbohydrate using the doubly labeled water method. *American Journal of Clinical Nutrition*, **2019**, 109, 1328-1334	7	27
51	Diet versus exercise in "the biggest loser" weight loss competition. *Obesity*, **2013**, 21, 957-9	8	27
50	Increased Physical Activity Associated with Less Weight Regain Six Years After "The Biggest Loser" Competition. *Obesity*, **2017**, 25, 1838-1843	8	25

49	Dynamic coordination of macronutrient balance during infant growth: insights from a mathematical model. *American Journal of Clinical Nutrition*, **2008**, 87, 692-703	7	24
48	Low-carbohydrate diets for the treatment of obesity and type 2 diabetes. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2018**, 21, 308-312	3.8	23
47	Short and long-term energy intake patterns and their implications for human body weight regulation. *Physiology and Behavior*, **2014**, 134, 60-5	3.5	23
46	Computational modeling of cancer cachexia. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2008**, 11, 214-21	3.8	23
45	Do low-carbohydrate diets increase energy expenditure?. *International Journal of Obesity*, **2019**, 43, 2350-2354	5.5	21
44	The Potential Role of Protein Leverage in the US Obesity Epidemic. *Obesity*, **2019**, 27, 1222-1224	8	19
43	Accumulating Data to Optimally Predict Obesity Treatment (ADOPT): Recommendations from the Biological Domain. *Obesity*, **2018**, 26 Suppl 2, S25-S34	8	19
42	How adaptations of substrate utilization regulate body composition. *International Journal of Obesity*, **2007**, 31, 1378-83	5.5	18
41	Impact of Masked Replacement of Sugar-Sweetened with Sugar-Free Beverages on Body Weight Increases with Initial BMI: Secondary Analysis of Data from an 18 Month Double-Blind Trial in Children. *PLoS ONE*, **2016**, 11, e0159771	3.7	18
40	Proportional Feedback Control of Energy Intake During Obesity Pharmacotherapy. *Obesity*, **2017**, 25, 2088-2091	8	13
39	The energy balance model of obesity: beyond calories in, calories out.. *American Journal of Clinical Nutrition*, **2022**,	7	13
38	Carbohydrates, insulin, and obesity. *Science*, **2021**, 372, 577-578	33.3	13
37	Challenges of human nutrition research. *Science*, **2020**, 367, 1298-1300	33.3	12
36	Quantifying energy intake changes during obesity pharmacotherapy. *Obesity*, **2014**, 22, 2105-8	8	11
35	Objective versus Self-Reported Energy Intake Changes During Low-Carbohydrate and Low-Fat Diets. *Obesity*, **2019**, 27, 420-426	8	10
34	Ultra-processed diets cause excess calorie intake and weight gain: A one-month inpatient randomized controlled trial of ad libitum food intake		10
33	Imprecision nutrition? Different simultaneous continuous glucose monitors provide discordant meal rankings for incremental postprandial glucose in subjects without diabetes. *American Journal of Clinical Nutrition*, **2020**, 112, 1114-1119	7	9
32	Simulating long-term human weight-loss dynamics in response to calorie restriction. *American Journal of Clinical Nutrition*, **2018**, 107, 558-565	7	8

31	Diet composition and obesity □Authors□reply. *Lancet, The*, **2012**, 379, 1100-1101	40	8
30	Estimating the quantitative relation between food energy intake and changes in body weight. *American Journal of Clinical Nutrition*, **2010**, 91, 816; author reply 817	7	8
29	Metabolic Adaptations to Weight Loss. *Obesity*, **2018**, 26, 790-791	8	7
28	Models use leptin and calculus to count calories. *Cell Metabolism*, **2009**, 9, 3-4	24.6	7
27	Challenges of indirect calorimetry in mice. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2011**, 300, R780; author reply R781-2	3.2	7
26	Metabolism of mice and men: mathematical modeling of body weight dynamics. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2012**, 15, 418-23	3.8	7
25	Neonatal exposure to a wild-derived microbiome protects mice against diet-induced obesity. *Nature Metabolism*, **2021**, 3, 1042-1057	14.6	7
24	Reducing Calories to Lose Weight. *JAMA - Journal of the American Medical Association*, **2018**, 319, 2336-2337	37.4	6
23	Novel mathematical models for investigating topics in obesity. *Advances in Nutrition*, **2014**, 5, 561-2	10	6
22	Eliminate or reformulate ultra-processed foods? Biological mechanisms matter. *Cell Metabolism*, **2021**, 33, 2314-2315	24.6	6
21	Reply to DS Ludwig and CB Ebbeling. *American Journal of Clinical Nutrition*, **2016**, 104, 1488-1490	7	5
20	Order of magnitude misestimation of weight effects of children□s meal policy proposals. *Childhood Obesity*, **2014**, 10, 542-4	2.5	5
19	Quantitative Physiology of Human Starvation: Adaptations of Energy Expenditure, Macronutrient Metabolism and Body Composition **2012**, 379-393		5
18	The energy cost of protein turnover is arbitrarily distributed between maintenance requirements and protein retention efficiency--comments by Hall. *British Journal of Nutrition*, **2009**, 102, 1695-6	3.6	4
17	Carbs versus fat: does it really matter for maintaining lost weight?		4
16	Modeling Energy Dynamics in Mice with Skeletal Muscle Hypertrophy Fed High Calorie Diets. *International Journal of Biological Sciences*, **2016**, 12, 617-30	11.2	4
15	A plant-based, low-fat diet decreases ad libitum energy intake compared to an animal-based, ketogenic diet: An inpatient randomized controlled trial		3
14	Mystery or method? Evaluating claims of increased energy expenditure during a ketogenic diet. *PLoS ONE*, **2019**, 14, e0225944	3.7	3

13	Practical, Evidence-Based Approaches to Nutritional Modifications to Reduce Atherosclerotic Cardiovascular Disease: An American Society For Preventive Cardiology Clinical Practice Statement.. *American Journal of Preventive Cardiology*, **2022**, 10, 100323	1.9	3
12	Computational modeling to predict nitrogen balance during acute metabolic decompensation in patients with urea cycle disorders. *Journal of Inherited Metabolic Disease*, **2016**, 39, 17-24	5.4	2
11	Prescribing low-fat diets: useless for long-term weight loss?. *Lancet Diabetes and Endocrinology,the*, **2015**, 3, 920-1	18.1	2
10	Response to "Overstated metabolic adaptation after ŖThe Biggest LoserŘintervention". *Obesity*, **2016**, 24, 2026	8	2
9	Computational Modelling of Energy Metabolism and Body Composition Dynamics **2015**, 265-282		2
8	Methodologic Issues in Doubly Labeled Water Measurements of Energy Expenditure During Very Low-Carbohydrate Diets		2
7	Emerging insights in weight management and prevention: implications for practice and research. *Applied Physiology, Nutrition and Metabolism*, **2021**, 46, 288-293	3	2
6	Exceptional Reported Effects and Data Anomalies Merit Explanation from "A randomized controlled trial of coordination exercise on cognitive function in obese adolescents" by. *Psychology of Sport and Exercise*, **2020**, 46,	4.2	2
5	Overestimated Impact of Lower-Carbohydrate Diets on Total Energy Expenditure. *Journal of Nutrition*, **2021**, 151, 2496-2497	4.1	2
4	Energy compensation and metabolic adaptation: "The Biggest Loser" study reinterpreted. *Obesity*, **2021**,	8	1
3	Challenges Interpreting Inpatient and Outpatient Human Nutrition Studies. *Cell Metabolism*, **2019**, 30, 227-228	24.6	0
2	Reply to DM Thomas et al. *American Journal of Clinical Nutrition*, **2018**, 108, 901-902	7	
1	Reply to DS Ludwig et al. *American Journal of Clinical Nutrition*, **2019**, 110, 1255-1256	7	