Diana M Thomas

List of Publications by Year
in descending order

95 papers	3,979 citations	201674 27 h-index	128289 60 g-index
95 all docs	95 docs citations	95 times ranked	5423 citing authors

#	Article	IF	Citations
1	Overflowing tables: Changes in the energy intake and the social context of Thanksgiving in the United States. Historical Methods, 2022, 55, 30-44.	1.5	0
2	Phenotypic differences between people varying in muscularity. Journal of Cachexia, Sarcopenia and Muscle, 2022, 13, 1100-1112.	7.3	13
3	The potential epidemiologic, clinical, and economic impact of requiring schools to offer Physical Education (PE) classes in Mexico City. PLoS ONE, 2022, 17, e0268118.	2.5	2
4	Technical report: an online international weight control registry to inform precision approaches to healthy weight management. International Journal of Obesity, 2022, 46, 1728-1733.	3.4	4
5	The Behavioral Intervention with Technology for E-Weight Loss Study (BITES): Incorporating Energy Balance Models and the Bite Counter into an Online Behavioral Weight Loss Program. Journal of Technology in Behavioral Science, 2021, 6, 406-418.	2.3	2
6	Resting Energy Expenditure: From Cellular to Wholeâ€Body Level, a Mechanistic Historical Perspective. Obesity, 2021, 29, 500-511.	3.0	19
7	Food for thought: A natural language processing analysis of the 2020 Dietary Guidelines publice comments. American Journal of Clinical Nutrition, 2021, 114, 713-720.	4.7	6
8	Allometric models of adult regional body lengths and circumferences to height: Insights from a threeâ€dimensional body image scanner. American Journal of Human Biology, 2020, 32, e23349.	1.6	6
9	Can the Participant Speak Beyond Likert? Freeâ€Text Responses in COVIDâ€19 Obesity Surveys. Obesity, 2020, 28, 2268-2271.	3.0	4
10	Alpha thalassemia genotypes in Kuwait. BMC Medical Genetics, 2020, 21, 170.	2.1	4
11	A Primer on COVIDâ€19 Mathematical Models. Obesity, 2020, 28, 1375-1377.	3.0	32
12	Machine learning prediction of combat basic training injury from 3D body shape images. PLoS ONE, 2020, 15, e0235017.	2.5	7
13	Best (but oft-forgotten) practices: identifying and accounting for regression to the mean in nutrition and obesity research. American Journal of Clinical Nutrition, 2020, 111, 256-265.	4.7	17
14	Use and abuse of dietary supplements in persons with diabetes. Nutrition and Diabetes, 2020, 10, 14.	3.2	29
15	Machine learning prediction of combat basic training injury from 3D body shape images. , 2020, 15, e0235017.		0
16	Machine learning prediction of combat basic training injury from 3D body shape images. , 2020, 15, e0235017.		0
17	Machine learning prediction of combat basic training injury from 3D body shape images. , 2020, 15, e0235017.		0
18	Machine learning prediction of combat basic training injury from 3D body shape images. , 2020, 15, e0235017.		0

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19	Modelling the metabolism: allometric relationships between total daily energy expenditure, body mass, and height. European Journal of Clinical Nutrition, 2019, 73, 763-769.	2.9	7
20	Cardiometabolic thresholds for peak 30-min cadence and steps/day. PLoS ONE, 2019, 14, e0219933.	2.5	16
21	Childhood obesity intervention studies: A narrative review and guide for investigators, authors, editors, reviewers, journalists, and readers to guard against exaggerated effectiveness claims. Obesity Reviews, 2019, 20, 1523-1541.	6.5	25
22	Obesity Tissue: Composition, Energy Expenditure, and Energy Content in Adult Humans. Obesity, 2019, 27, 1472-1481.	3.0	24
23	Predictive Mathematical Models of Weight Loss. Current Diabetes Reports, 2019, 19, 93.	4.2	6
24	Allometric scaling of weight to height and resulting body mass index thresholds in two Asian populations. Nutrition and Diabetes, 2019, 9, 2.	3.2	12
25	Do Women Know Their Prepregnancy Weight?. Obesity, 2019, 27, 1161-1167.	3.0	15
26	The Sub-Phenotypes of Sickle Cell Disease in Kuwait. Hemoglobin, 2019, 43, 83-87.	0.8	13
27	Scaling of adult human bone and skeletal muscle mass to height in the US population. American Journal of Human Biology, 2019, 31, e23252.	1.6	11
28	The New Army Combat Fitness Test: An Opportunity to Improve Recruitment and Retainment. Obesity, 2019, 27, 1772-1775.	3.0	14
29	Gestational growth trajectories derived from a dynamic fetalâ€“placental scaling law. Journal of the Royal Society Interface, 2019, 16, 20190417.	3.4	4
30	Revisiting the United States Army body composition standards: a receiver operating characteristic analysis. International Journal of Obesity, 2019, 43, 1508-1515.	3.4	6
31	Risk of avascular necrosis of the femoral head in children with sickle cell disease on hydroxyurea: MRI evaluation. Pediatric Blood and Cancer, 2019, 66, e27503.	1.5	12
32	A machine learning approach relating 3D body scans to body composition in humans. European Journal of Clinical Nutrition, 2019, 73, 200-208.	2.9	27
33	The anatomy of resting energy expenditure: body composition mechanisms. European Journal of Clinical Nutrition, 2019, 73, 166-171.	2.9	34
34	Evidence-based recommendations for energy intake in pregnant women with obesity. Journal of Clinical Investigation, 2019, 129, 4682-4690.	8.2	34
35	A Comment on Scherr et al â€œA Multicomponent, School-Based Intervention, the Shaping Healthy Choices Program , Improves Nutrition-Related Outcomesâ€• Journal of Nutrition Education and Behavior, 2018, 50, 324-325.	0.7	5
36	Unaccounted for regression to the mean renders conclusion of article titled â€œUric acid lowering in relation to HbA1c reductions with the SGLT2 inhibitor tofogliflozinâ€•unsubstantiated. Diabetes, Obesity and Metabolism, 2018, 20, 2039-2040.	4.4	3

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37	Resting Metabolic Rate, Total Daily Energy Expenditure, and Metabolic Adaptation 6 Months and 24 Months After Bariatric Surgery. Obesity, 2018, 26, 862-868.	3.0	41
38	A Mathematical Model for Predicting Obesity Transmission with Both Genetic and Nongenetic Heredity. Obesity, 2018, 26, 927-933.	3.0	8
39	A review of machine learning in obesity. Obesity Reviews, 2018, 19, 668-685.	6.5	133
40	Energy Intake Derived from an Energy Balance Equation, Validated Activity Monitors, and Dual X-Ray Absorptiometry Can Provide Acceptable Caloric Intake Data among Young Adults. Journal of Nutrition, 2018, 148, 490-496.	2.9	31
41	Letter to the editor. Journal of Women and Aging, 2018, 30, 2-5.	1.0	5
42	The claim that effectiveness has been demonstrated in the Parenting, Eating and Activity for Child Health (PEACH) childhood obesity intervention is unsubstantiated by the data. British Journal of Nutrition, 2018, 120, 958-959.	2.3	6
43	Misrepresentation of the Pennington Biomedical Research Center Weight Loss Predictor. American Journal of Clinical Nutrition, 2018, 108, 898-901.	4.7	0
44	Bite count rates in free-living individuals: new insights from a portable sensor. BMC Nutrition, 2018, 4, 23.	1.6	6
45	Adult energy requirements predicted from doubly labeled water. International Journal of Obesity, 2018, 42, 1515-1523.	3.4	9
46	TO THE EDITOR:. Spine, 2018, 43, E492-E493.	2.0	3
47	Energy balance, energy turnover, and risk of body fat gain. American Journal of Clinical Nutrition, 2017, 105, 540-541.	4.7	4
48	A new universal dynamic model to describe eating rate and cumulative intake curves. American Journal of Clinical Nutrition, 2017, 105, 323-331.	4.7	9
49	Compensatory Changes in Energy Balance Regulation over One Athletic Season. Medicine and Science in Sports and Exercise, 2017, 49, 1229-1235.	0.4	19
50	Energy Balance over One Athletic Season. Medicine and Science in Sports and Exercise, 2017, 49, 1724-1733.	0.4	26
51	Do Dynamic Fat and Fat-Free Mass Changes follow Theoretical Driven Rules in Athletes?. Medicine and Science in Sports and Exercise, 2017, 49, 2086-2092.	0.4	5
52	Establishing energy requirements for body weight maintenance: validation of an intake-balance method. BMC Research Notes, 2017, 10, 220.	1.4	10
53	Effectiveness of SmartMoms, a Novel eHealth Intervention for Management of Gestational Weight Gain: Randomized Controlled Pilot Trial. JMIR MHealth and UHealth, 2017, 5, e133.	3.7	81
54	Adult Human Ocular Volume: Scaling to Body Size and Composition. Anatomy & Physiology: Current Research, 2016, 6, .	0.1	7

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55	We Agree That Self-Reported Energy Intake Should Not Be Used as a Basis for Conclusions about Energy Intake in Scientific Research. Journal of Nutrition, 2016, 146, 1141-1142.	2.9	5
56	First Trimester Detection of Placental Disease: Challenges and Opportunities. American Journal of Perinatology, 2016, 33, 1306-1312.	1.4	4
57	Relationships between misreported energy intake and pregnancy in the pregnancy, infection and nutrition study: new insights from a dynamic energy balance model. Obesity Science and Practice, 2016, 2, 174-179.	1.9	7
58	The Validity of US Nutritional Surveillance: USDAâ€™s Loss-Adjusted Food Availability Data Series 1971-2010. Current Problems in Cardiology, 2016, 41, 268-292.	2.4	15
59	Exercise: Is More Always Better?. Current Biology, 2016, 26, R102-R104.	3.9	3
60	Smartloss: A Personalized Mobile Health Intervention for Weight Management and Health Promotion. JMIR MHealth and UHealth, 2016, 4, e18.	3.7	39
61	Efficacy of SmartLoss^{SM} , a smartphone-based weight loss intervention: Results from a randomized controlled trial. Obesity, 2015, 23, 935-942.	3.0	103
62	Utility of novel body indices in predicting fat mass in elite athletes. Nutrition, 2015, 31, 948-954.	2.4	24
63	Predicting successful long-term weight loss from short-term weight-loss outcomes: new insights from a dynamic energy balance model (the POUNDS Lost study). American Journal of Clinical Nutrition, 2015, 101, 449-454.	4.7	35
64	Exceptional data in paper on â€œThe effect of meridian massage on BM, BMI, WC and HC in simple obesity patients: a randomized controlled triaâ€• World Journal of Acupuncture-moxibustion, 2015, 25, 66-67.	0.5	6
65	The gap between expectations and reality of exercise-induced weight loss is associated with discouragement. Preventive Medicine, 2015, 81, 357-360.	3.4	19
66	Scaling of adult regional body mass and body composition as a whole to height: Relevance to body shape and body mass index. American Journal of Human Biology, 2015, 27, 372-379.	1.6	24
67	Weighing the Evidence of Common Beliefs in Obesity Research. Critical Reviews in Food Science and Nutrition, 2015, 55, 2014-2053.	10.3	147
68	Effect of dietary adherence on the body weight plateau: a mathematical model incorporating intermittent compliance with energy intake prescription , ,. American Journal of Clinical Nutrition, 2014, 100, 787-795.	4.7	47
69	Scaling of adult body weight to height across sex and race/ethnic groups: relevance to BMI. American Journal of Clinical Nutrition, 2014, 100, 1455-1461.	4.7	49
70	Novel Mathematical Models for Investigating Topics in Obesity. Advances in Nutrition, 2014, 5, 561-562.	6.4	7
71	Energy Intake and Weight Loss. JAMA - Journal of the American Medical Association, 2014, 312, 2687.	7.4	3
72	Time to Correctly Predict the Amount of Weight Loss with Dieting. Journal of the Academy of Nutrition and Dietetics, 2014, 114, 857-861.	0.8	41

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73	Dynamic model predicting overweight, obesity, and extreme obesity prevalence trends. Obesity, 2014, 22, 590-597.	3.0	54
74	Order of Magnitude Misestimation of Weight Effects of Children's Meal Policy Proposals. Childhood Obesity, 2014, 10, 542-545.	1.5	6
75	Rapidâ€accurate anthropometric body shape assessment with lowâ€cost novel 3D imaging system (391.2). FASEB Journal, 2014, 28, 391.2.	0.5	2
76	Myths, Presumptions, and Facts about Obesity. New England Journal of Medicine, 2013, 368, 446-454.	27.0	383
77	Relationships between body roundness with body fat and visceral adipose tissue emerging from a new geometrical model. Obesity, 2013, 21, 2264-2271.	3.0	304
78	Hybrid model predictive control for optimizing gestational weight gain behavioral interventions. , 2013, , 1970-1975.		16
79	Modeling in clinical nutrition: does it add to patient care?. European Journal of Clinical Nutrition, 2013, 67, 555-557.	2.9	6
80	Self-reportâ€"based estimates of energy intake offer an inadequate basis for scientific conclusions. American Journal of Clinical Nutrition, 2013, 97, 1413-1415.	4.7	157
81	A dynamical systems model for improving gestational weight gain behavioral interventions. , 2012, , 4059-4064.		19
82	Dynamic energy-balance model predicting gestational weight gain. American Journal of Clinical Nutrition, 2012, 95, 115-122.	4.7	64
83	Advances in the Science and Application of Body Composition Measurement. Journal of Parenteral and Enteral Nutrition, 2012, 36, 96-107.	2.6	54
84	Human brain mass: Similar body composition associations as observed across mammals. American Journal of Human Biology, 2012, 24, 479-485.	1.6	19
85	Energy content of weight loss: kinetic features during voluntary caloric restriction. Metabolism: Clinical and Experimental, 2012, 61, 937-943.	3.4	28
86	Why do individuals not lose more weight from an exercise intervention at a defined dose? An energy balance analysis. Obesity Reviews, 2012, 13, 835-847.	6.5	201
87	Trends over 5 Decades in U.S. Occupation-Related Physical Activity and Their Associations with Obesity. PLoS ONE, 2011, 6, e19657.	2.5	927
88	A simple model predicting individual weight change in humans. Journal of Biological Dynamics, 2011, 5, 579-599.	1.7	99
89	New fat free mass - fat mass model for use in physiological energy balance equations. Nutrition and Metabolism, 2010, 7, 39.	3.0	39
90	A computational model to determine energy intake during weight loss. American Journal of Clinical Nutrition, 2010, 92, 1326-1331.	4.7	89

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91	A mathematical model of weight change with adaptation. Mathematical Biosciences and Engineering, 2009, 6, 873-887.	1.9	58
92	A foetal energy balance equation based on maternal exercise and diet. Journal of the Royal Society Interface, 2008, 5, 449-455.	3.4	14
93	Iterations of linear maps over finite fields. Linear Algebra and Its Applications, 2006, 413, 218-234.	0.9	9
94	Dynamics of starvation in humans. Journal of Mathematical Biology, 2006, 54, 27-43.	1.9	29
95	The N-Number Ducci Game. Journal of Difference Equations and Applications, 2004, 10, 339-342.	1.1	8