

# Diana M Thomas

## List of Publications by Year in descending order

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95  
papers

3,979  
citations

201385

27  
h-index

128067

60  
g-index

95  
all docs

95  
docs citations

95  
times ranked

5423  
citing authors

#	ARTICLE	IF	CITATIONS
1	Trends over 5 Decades in U.S. Occupation-Related Physical Activity and Their Associations with Obesity. PLoS ONE, 2011, 6, e19657.	1.1	927
2	Myths, Presumptions, and Facts about Obesity. New England Journal of Medicine, 2013, 368, 446-454.	13.9	383
3	Relationships between body roundness with body fat and visceral adipose tissue emerging from a new geometrical model. Obesity, 2013, 21, 2264-2271.	1.5	304
4	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.	3.1	201
5	Self-reportâ€‘based estimates of energy intake offer an inadequate basis for scientific conclusions. American Journal of Clinical Nutrition, 2013, 97, 1413-1415.	2.2	157
6	Weighing the Evidence of Common Beliefs in Obesity Research. Critical Reviews in Food Science and Nutrition, 2015, 55, 2014-2053.	5.4	147
7	A review of machine learning in obesity. Obesity Reviews, 2018, 19, 668-685.	3.1	133
8	Efficacy of SmartLoss <sup>SM</sup> , a smartphone-based weight loss intervention: Results from a randomized controlled trial. Obesity, 2015, 23, 935-942.	1.5	103
9	A simple model predicting individual weight change in humans. Journal of Biological Dynamics, 2011, 5, 579-599.	0.8	99
10	A computational model to determine energy intake during weight loss. American Journal of Clinical Nutrition, 2010, 92, 1326-1331.	2.2	89
11	Effectiveness of SmartMoms, a Novel eHealth Intervention for Management of Gestational Weight Gain: Randomized Controlled Pilot Trial. JMIR MHealth and UHealth, 2017, 5, e133.	1.8	81
12	Dynamic energy-balance model predicting gestational weight gain. American Journal of Clinical Nutrition, 2012, 95, 115-122.	2.2	64
13	A mathematical model of weight change with adaptation. Mathematical Biosciences and Engineering, 2009, 6, 873-887.	1.0	58
14	Advances in the Science and Application of Body Composition Measurement. Journal of Parenteral and Enteral Nutrition, 2012, 36, 96-107.	1.3	54
15	Dynamic model predicting overweight, obesity, and extreme obesity prevalence trends. Obesity, 2014, 22, 590-597.	1.5	54
16	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.	2.2	49
17	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.	2.2	47
18	Time to Correctly Predict the Amount of Weight Loss with Dieting. Journal of the Academy of Nutrition and Dietetics, 2014, 114, 857-861.	0.4	41

#	ARTICLE	IF	CITATIONS
19	Resting Metabolic Rate, Total Daily Energy Expenditure, and Metabolic Adaptation 6 Months and 24 Months After Bariatric Surgery. <i>Obesity</i> , 2018, 26, 862-868.	1.5	41
20	New fat free mass - fat mass model for use in physiological energy balance equations. <i>Nutrition and Metabolism</i> , 2010, 7, 39.	1.3	39
21	Smartloss: A Personalized Mobile Health Intervention for Weight Management and Health Promotion. <i>JMIR MHealth and UHealth</i> , 2016, 4, e18.	1.8	39
22	Predicting successful long-term weight loss from short-term weight-loss outcomes: new insights from a dynamic energy balance model (the POUNDS Lost study). <i>American Journal of Clinical Nutrition</i> , 2015, 101, 449-454.	2.2	35
23	The anatomy of resting energy expenditure: body composition mechanisms. <i>European Journal of Clinical Nutrition</i> , 2019, 73, 166-171.	1.3	34
24	Evidence-based recommendations for energy intake in pregnant women with obesity. <i>Journal of Clinical Investigation</i> , 2019, 129, 4682-4690.	3.9	34
25	A Primer on COVID-19 Mathematical Models. <i>Obesity</i> , 2020, 28, 1375-1377.	1.5	32
26	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. <i>Journal of Nutrition</i> , 2018, 148, 490-496.	1.3	31
27	Dynamics of starvation in humans. <i>Journal of Mathematical Biology</i> , 2006, 54, 27-43.	0.8	29
28	Use and abuse of dietary supplements in persons with diabetes. <i>Nutrition and Diabetes</i> , 2020, 10, 14.	1.5	29
29	Energy content of weight loss: kinetic features during voluntary caloric restriction. <i>Metabolism: Clinical and Experimental</i> , 2012, 61, 937-943.	1.5	28
30	A machine learning approach relating 3D body scans to body composition in humans. <i>European Journal of Clinical Nutrition</i> , 2019, 73, 200-208.	1.3	27
31	Energy Balance over One Athletic Season. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 1724-1733.	0.2	26
32	Childhood obesity intervention studies: A narrative review and guide for investigators, authors, editors, reviewers, journalists, and readers to guard against exaggerated effectiveness claims. <i>Obesity Reviews</i> , 2019, 20, 1523-1541.	3.1	25
33	Utility of novel body indices in predicting fat mass in elite athletes. <i>Nutrition</i> , 2015, 31, 948-954.	1.1	24
34	Scaling of adult regional body mass and body composition as a whole to height: Relevance to body shape and body mass index. <i>American Journal of Human Biology</i> , 2015, 27, 372-379.	0.8	24
35	Obesity Tissue: Composition, Energy Expenditure, and Energy Content in Adult Humans. <i>Obesity</i> , 2019, 27, 1472-1481.	1.5	24
36	A dynamical systems model for improving gestational weight gain behavioral interventions. , 2012, , 4059-4064.		19

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37	Human brain mass: Similar body composition associations as observed across mammals. <i>American Journal of Human Biology</i> , 2012, 24, 479-485.	0.8	19
38	The gap between expectations and reality of exercise-induced weight loss is associated with discouragement. <i>Preventive Medicine</i> , 2015, 81, 357-360.	1.6	19
39	Compensatory Changes in Energy Balance Regulation over One Athletic Season. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 1229-1235.	0.2	19
40	Resting Energy Expenditure: From Cellular to Whole-Body Level, a Mechanistic Historical Perspective. <i>Obesity</i> , 2021, 29, 500-511.	1.5	19
41	Best (but oft-forgotten) practices: identifying and accounting for regression to the mean in nutrition and obesity research. <i>American Journal of Clinical Nutrition</i> , 2020, 111, 256-265.	2.2	17
42	Hybrid model predictive control for optimizing gestational weight gain behavioral interventions. , 2013, , 1970-1975.		16
43	Cardiometabolic thresholds for peak 30-min cadence and steps/day. <i>PLoS ONE</i> , 2019, 14, e0219933.	1.1	16
44	The Validity of US Nutritional Surveillance: USDA's Loss-Adjusted Food Availability Data Series 1971-2010. <i>Current Problems in Cardiology</i> , 2016, 41, 268-292.	1.1	15
45	Do Women Know Their Prepregnancy Weight?. <i>Obesity</i> , 2019, 27, 1161-1167.	1.5	15
46	A foetal energy balance equation based on maternal exercise and diet. <i>Journal of the Royal Society Interface</i> , 2008, 5, 449-455.	1.5	14
47	The New Army Combat Fitness Test: An Opportunity to Improve Recruitment and Retainment. <i>Obesity</i> , 2019, 27, 1772-1775.	1.5	14
48	The Sub-Phenotypes of Sickle Cell Disease in Kuwait. <i>Hemoglobin</i> , 2019, 43, 83-87.	0.4	13
49	Phenotypic differences between people varying in muscularity. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2022, 13, 1100-1112.	2.9	13
50	Allometric scaling of weight to height and resulting body mass index thresholds in two Asian populations. <i>Nutrition and Diabetes</i> , 2019, 9, 2.	1.5	12
51	Risk of avascular necrosis of the femoral head in children with sickle cell disease on hydroxyurea: MRI evaluation. <i>Pediatric Blood and Cancer</i> , 2019, 66, e27503.	0.8	12
52	Scaling of adult human bone and skeletal muscle mass to height in the US population. <i>American Journal of Human Biology</i> , 2019, 31, e23252.	0.8	11
53	Establishing energy requirements for body weight maintenance: validation of an intake-balance method. <i>BMC Research Notes</i> , 2017, 10, 220.	0.6	10
54	Iterations of linear maps over finite fields. <i>Linear Algebra and Its Applications</i> , 2006, 413, 218-234.	0.4	9

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55	A new universal dynamic model to describe eating rate and cumulative intake curves. American Journal of Clinical Nutrition, 2017, 105, 323-331.	2.2	9
56	Adult energy requirements predicted from doubly labeled water. International Journal of Obesity, 2018, 42, 1515-1523.	1.6	9
57	The N-Number Ducci Game. Journal of Difference Equations and Applications, 2004, 10, 339-342.	0.7	8
58	A Mathematical Model for Predicting Obesity Transmission with Both Genetic and Nongenetic Heredity. Obesity, 2018, 26, 927-933.	1.5	8
59	Novel Mathematical Models for Investigating Topics in Obesity. Advances in Nutrition, 2014, 5, 561-562.	2.9	7
60	Adult Human Ocular Volume: Scaling to Body Size and Composition. Anatomy & Physiology: Current Research, 2016, 6, .	0.1	7
61	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.	1.0	7
62	Modelling the metabolism: allometric relationships between total daily energy expenditure, body mass, and height. European Journal of Clinical Nutrition, 2019, 73, 763-769.	1.3	7
63	Machine learning prediction of combat basic training injury from 3D body shape images. PLoS ONE, 2020, 15, e0235017.	1.1	7
64	Modeling in clinical nutrition: does it add to patient care?. European Journal of Clinical Nutrition, 2013, 67, 555-557.	1.3	6
65	Order of Magnitude Misestimation of Weight Effects of Children's Meal Policy Proposals. Childhood Obesity, 2014, 10, 542-545.	0.8	6
66	Exceptional data in paper on "The effect of meridian massage on BM, BMI, WC and HC in simple obesity patients: a randomized controlled trial". World Journal of Acupuncture-moxibustion, 2015, 25, 66-67.	0.1	6
67	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.	1.2	6
68	Bite count rates in free-living individuals: new insights from a portable sensor. BMC Nutrition, 2018, 4, 23.	0.6	6
69	Predictive Mathematical Models of Weight Loss. Current Diabetes Reports, 2019, 19, 93.	1.7	6
70	Revisiting the United States Army body composition standards: a receiver operating characteristic analysis. International Journal of Obesity, 2019, 43, 1508-1515.	1.6	6
71	Allometric models of adult regional body lengths and circumferences to height: Insights from a three-dimensional body image scanner. American Journal of Human Biology, 2020, 32, e23349.	0.8	6
72	Food for thought: A natural language processing analysis of the 2020 Dietary Guidelines public comments. American Journal of Clinical Nutrition, 2021, 114, 713-720.	2.2	6

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73	We Agree That Self-Reported Energy Intake Should Not Be Used as a Basis for Conclusions about Energy Intake in Scientific Research. <i>Journal of Nutrition</i> , 2016, 146, 1141-1142.	1.3	5
74	Do Dynamic Fat and Fat-Free Mass Changes follow Theoretical Driven Rules in Athletes?. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 2086-2092.	0.2	5
75	A Comment on Scherr et al "A Multicomponent, School-Based Intervention, the Shaping Healthy Choices Program , Improves Nutrition-Related Outcomes" <i>Journal of Nutrition Education and Behavior</i> , 2018, 50, 324-325.	0.3	5
76	Letter to the editor. <i>Journal of Women and Aging</i> , 2018, 30, 2-5.	0.5	5
77	First Trimester Detection of Placental Disease: Challenges and Opportunities. <i>American Journal of Perinatology</i> , 2016, 33, 1306-1312.	0.6	4
78	Energy balance, energy turnover, and risk of body fat gain. <i>American Journal of Clinical Nutrition</i> , 2017, 105, 540-541.	2.2	4
79	Gestational growth trajectories derived from a dynamic fetal-placental scaling law. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190417.	1.5	4
80	Can the Participant Speak Beyond Likert? Free-Text Responses in COVID-19 Obesity Surveys. <i>Obesity</i> , 2020, 28, 2268-2271.	1.5	4
81	Alpha thalassemia genotypes in Kuwait. <i>BMC Medical Genetics</i> , 2020, 21, 170.	2.1	4
82	Technical report: an online international weight control registry to inform precision approaches to healthy weight management. <i>International Journal of Obesity</i> , 2022, 46, 1728-1733.	1.6	4
83	Energy Intake and Weight Loss. <i>JAMA - Journal of the American Medical Association</i> , 2014, 312, 2687.	3.8	3
84	Exercise: Is More Always Better?. <i>Current Biology</i> , 2016, 26, R102-R104.	1.8	3
85	Unaccounted for regression to the mean renders conclusion of article titled "Uric acid lowering in relation to HbA1c reductions with the SGLT2 inhibitor tofogliflozin" unsubstantiated. <i>Diabetes, Obesity and Metabolism</i> , 2018, 20, 2039-2040.	2.2	3
86	TO THE EDITOR:. <i>Spine</i> , 2018, 43, E492-E493.	1.0	3
87	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. <i>Journal of Technology in Behavioral Science</i> , 2021, 6, 406-418.	1.3	2
88	Rapid accurate anthropometric body shape assessment with low-cost novel 3D imaging system (391.2). <i>FASEB Journal</i> , 2014, 28, 391.2.	0.2	2
89	The potential epidemiologic, clinical, and economic impact of requiring schools to offer Physical Education (PE) classes in Mexico City. <i>PLoS ONE</i> , 2022, 17, e0268118.	1.1	2
90	Misrepresentation of the Pennington Biomedical Research Center Weight Loss Predictor. <i>American Journal of Clinical Nutrition</i> , 2018, 108, 898-901.	2.2	0

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91	Overflowing tables: Changes in the energy intake and the social context of Thanksgiving in the United States. <i>Historical Methods</i> , 2022, 55, 30-44.	0.9	0
92	Machine learning prediction of combat basic training injury from 3D body shape images. , 2020, 15, e0235017.		0
93	Machine learning prediction of combat basic training injury from 3D body shape images. , 2020, 15, e0235017.		0
94	Machine learning prediction of combat basic training injury from 3D body shape images. , 2020, 15, e0235017.		0
95	Machine learning prediction of combat basic training injury from 3D body shape images. , 2020, 15, e0235017.		0