David A Fields

List of Publications by Year
in descending order

100 papers	4,594 citations	87723 38 h-index	110170 64 g-index
102 all docs	102 docs citations	102 times ranked	5254 citing authors

#	Article	IF	Citations
1	Body-composition assessment via air-displacement plethysmography in adults and children: a review. American Journal of Clinical Nutrition, 2002, 75, 453-467.	2.2	499
2	Resistance training increases total energy expenditure and free-living physical activity in older adults. Journal of Applied Physiology, 2000, 89, 977-984.	1.2	226
3	Body composition techniques and the four-compartment model in children. Journal of Applied Physiology, 2000, 89, 613-620.	1.2	191
4	Impact of maternal body mass index on neonate birthweight and body composition. American Journal of Obstetrics and Gynecology, 2008, 198, 416.e1-416.e6.	0.7	180
5	Relationship of insulin, glucose, leptin, <scp>IL</scp>â€6 and <scp>TNF</scp>â€Î± in human breast milk with infant growth and body composition. Pediatric Obesity, 2012, 7, 304-312.	1.4	171
6	Associations between human milk oligosaccharides and infant body composition in the first 6 mo of life. American Journal of Clinical Nutrition, 2015, 102, 1381-1388.	2.2	169
7	Body composition assessment in the infant. American Journal of Human Biology, 2014, 26, 291-304.	0.8	161
8	Weighing the Evidence of Common Beliefs in Obesity Research. Critical Reviews in Food Science and Nutrition, 2015, 55, 2014-2053.	5.4	147
9	Associations between human breast milk hormones and adipocytokines and infant growth and body composition in the first 6â€‰months of life. Pediatric Obesity, 2017, 12, 78-85.	1.4	106
10	Maternal obesity and the human milk metabolome: associations with infant body composition and postnatal weight gain. American Journal of Clinical Nutrition, 2019, 110, 111-120.	2.2	104
11	A narrative review of the associations between six bioactive components in breast milk and infant adiposity. Obesity, 2016, 24, 1213-1221.	1.5	103
12	Airâ€Displacement Plethysmography Pediatric Option in 2â€“6 Years Old Using the Fourâ€Compartment Model as a Criterion Method. Obesity, 2012, 20, 1732-1737.	1.5	77
13	Freshman 15: Fact or Fiction?. Obesity, 2006, 14, 1438-1443.	1.5	71
14	Longitudinal Body Composition Data in Exclusively Breastâ€Fed Infants: A Multicenter Study. Obesity, 2011, 19, 1887-1891.	1.5	71
15	Estimation of total body water and extracellular water with bioimpedance in athletes: A need for athlete-specific prediction models. Clinical Nutrition, 2016, 35, 468-474.	2.3	69
16	Body Composition at 6 months of Life: Comparison Of Air Displacement Plethysmography and Dualâ€Energy Xâ€Ray Absorptiometry. Obesity, 2012, 20, 2302-2306.	1.5	67
17	Higher Maternal Diet Quality during Pregnancy and Lactation Is Associated with Lower Infant Weight-For-Length, Body Fat Percent, and Fat Mass in Early Postnatal Life. Nutrients, 2019, 11, 632.	1.7	67
18	Air-displacement plethysmography: here to stay. Current Opinion in Clinical Nutrition and Metabolic Care, 2005, 8, 624-629.	1.3	64

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19	Accuracy of DXA in estimating body composition changes in elite athletes using a four compartment model as the reference method. Nutrition and Metabolism, 2010, 7, 22.	1.3	64
20	Excess body fat in men decreases plasma fatty acid availability and oxidation during endurance exercise. American Journal of Physiology - Endocrinology and Metabolism, 2004, 286, E354-E362.	1.8	60
21	Relationship Between Changes in Total-Body Water and Fluid Distribution With Maximal Forearm Strength in Elite Judo Athletes. Journal of Strength and Conditioning Research, 2011, 25, 2488-2495.	1.0	60
22	Body Mass Index Is a Better Indicator of Body Composition than Weight-for-Length at Age 1 Month. Journal of Pediatrics, 2019, 204, 77-83.e1.	0.9	59
23	RESISTANCE TRAINING IMPROVES METABOLIC ECONOMY DURING FUNCTIONAL TASKS IN OLDER ADULTS. Journal of Strength and Conditioning Research, 2007, 21, 91-95.	1.0	57
24	Pharmacokinetics of Sucralose and Acesulfameâ€Potassium in Breast Milk Following Ingestion of Diet Soda. Journal of Pediatric Gastroenterology and Nutrition, 2018, 66, 466-470.	0.9	57
25	Effect of Scalp and Facial Hair on Air Displacement Plethysmography Estimates of Percentage of Body Fat. Obesity, 2001, 9, 326-330.	1.5	56
26	Comparison of the BOD POD with the four-compartment model in adult females. Medicine and Science in Sports and Exercise, 2001, 33, 1605-1610.	0.2	56
27	Sex differences in body composition early in life. Gender Medicine, 2009, 6, 369-375.	1.4	56
28	Advances in the Science and Application of Body Composition Measurement. Journal of Parenteral and Enteral Nutrition, 2012, 36, 96-107.	1.3	54
29	The effect of the Thanksgiving Holiday on weight gain. Nutrition Journal, 2006, 5, 29.	1.5	52
30	New charts for the assessment of body composition, according to air-displacement plethysmography, at birth and across the first 6 mo of life. American Journal of Clinical Nutrition, 2019, 109, 1353-1360.	2.2	52
31	Body Composition Measurements from Birth through 5 Years: Challenges, Gaps, and Existing & Emerging Technologiesâ€"A National Institutes of Health workshop. Obesity Reviews, 2020, 21, e13033.	3.1	51
32	Assessment of body composition by air-displacement plethysmography: influence of body temperature and moisture. Dynamic Medicine: DM, 2004, 3, 3.	2.7	49
33	Fructose in Breast Milk Is Positively Associated with Infant Body Composition at 6 Months of Age. Nutrients, 2017, 9, 146.	1.7	49
34	Reproducibility of postprandial lipemia tests and validity of an abbreviated 4-hour test. Metabolism: Clinical and Experimental, 2008, 57, 1479-1485.	1.5	48
35	Changes in Womenâ€™s Physical Activity During the Transition to College. American Journal of Health Education, 2008, 39, 194-199.	0.3	47
36	Associations of Maternal Weight Status Before, During, and After Pregnancy with Inflammatory Markers in Breast Milk. Obesity, 2017, 25, 2092-2099.	1.5	45

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37	Childâ€Specific Thoracic Gas Volume Prediction Equations for Airâ€Displacement Plethysmography. Obesity, 2004, 12, 1797-1804.	4.0	44
38	Human Milk Exosomal MicroRNA: Associations with Maternal Overweight/Obesity and Infant Body Composition at 1 Month of Life. Nutrients, 2021, 13, 1091.	1.7	42
39	Are Skinfold-Based Models Accurate and Suitable for Assessing Changes in Body Composition in Highly Trained Athletes?. Journal of Strength and Conditioning Research, 2009, 23, 1688-1696.	1.0	41
40	Is bioelectrical impedance spectroscopy accurate in estimating total body water and its compartments in elite athletes?. Annals of Human Biology, 2013, 40, 152-156.	0.4	39
41	Gestational and early life influences on infant body composition at 1 year. Obesity, 2013, 21, 144-148.	1.5	33
42	Adequacy of Infant Formula With Protein Content of 1.6 g/100 kcal for Infants Between 3 and 12 Months. Journal of Pediatric Gastroenterology and Nutrition, 2015, 61, 596-603.	0.9	33
43	Relationship of Maternal Weight Status Before, During, and After Pregnancy with Breast Milk Hormone Concentrations. Obesity, 2019, 27, 621-628.	1.5	33
44	Ability of the Actiwatch Accelerometer to Predict Freeâ€Living Energy Expenditure in Young Children. Obesity, 2004, 12, 1859-1865.	4.0	32
45	A PRISMA-Driven Systematic Review of Predictive Equations for Assessing Fat and Fat-Free Mass in Healthy Children and Adolescents Using Multicomponent Molecular Models as the Reference Method. Journal of Obesity, 2013, 2013, 1-14.	1.1	32
46	Brown Fatâ€“Activating Lipokine 12,13-diHOME in Human Milk Is Associated With Infant Adiposity. Journal of Clinical Endocrinology and Metabolism, 2021, 106, e943-e956.	1.8	32
47	The effect of the holiday season on body weight and composition in college students. Nutrition and Metabolism, 2006, 3, 44.	1.3	31
48	Total Body Water Measurements in Adolescent Athletes: A Comparison of Six Field Methods With Deuterium Dilution. Journal of Strength and Conditioning Research, 2009, 23, 1225-1237.	1.0	30
49	Maternal Psychological Distress and Lactation and Breastfeeding Outcomes: a Narrative Review. Clinical Therapeutics, 2022, 44, 215-227.	1.1	30
50	Quality of Growth in Exclusively Breast-Fed Infants in the First Six Months of Life: An Italian Study. Pediatric Research, 2010, 68, 542-544.	1.1	29
51	High-Fructose Corn-Syrup-Sweetened Beverage Intake Increases 5-Hour Breast Milk Fructose Concentrations in Lactating Women. Nutrients, 2018, 10, 669.	1.7	28
52	Increasing breast milk betaine modulates Akkermansia abundance in mammalian neonates and improves long-term metabolic health. Science Translational Medicine, 2021, 13, .	5.8	28
53	Air Displacement Plethysmography. Nutrition in Clinical Practice, 2015, 30, 219-226.	1.1	27
54	Validity of air-displacement plethysmography in the assessment of body composition changes in a 16-month weight loss program. Nutrition and Metabolism, 2006, 3, 32.	1.3	26

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55	Cord blood adipokines, neonatal anthropometrics and postnatal growth in offspring of Hispanic and Native American women with diabetes mellitus. Reproductive Biology and Endocrinology, 2015, 13, 68.	1.4	26
56	Monitoring body fat in the elderly: application of air-displacement plethysmography. Current Opinion in Clinical Nutrition and Metabolic Care, 2004, 7, 11-14.	1.3	24
57	Paradoxical Increase in Arterial Compliance in Obese Pubertal Children. Angiology, 2011, 62, 565-570.	0.8	23
58	Validity of a combined heart rate and motion sensor for the measurement of free-living energy expenditure in very active individuals. Journal of Science and Medicine in Sport, 2014, 17, 387-393.	0.6	23
59	Suitability of Bioelectrical Based Methods to Assess Water Compartments in Recreational and Elite Athletes. Journal of the American College of Nutrition, 2016, 35, 413-421.	1.1	23
60	MedGem Hand-Held Indirect Calorimeter Is Valid for Resting Energy Expenditure Measurement in Healthy Children*. Obesity, 2006, 14, 1755-1761.	1.5	20
61	Comparison of air displacement plethysmography to hydrostatic weighing for estimating total body density in children. BMC Pediatrics, 2005, 5, 37.	0.7	19
62	Gestational Diabetes Mellitus Is Associated with Altered Abundance of Exosomal MicroRNAs in Human Milk. Clinical Therapeutics, 2022, 44, 172-185.e1.	1.1	19
63	Fetal epicardial fat thickness in diabetic and nonâ€diabetic pregnancies: A retrospective crossâ€sectional study. Obesity, 2016, 24, 167-171.	1.5	17
64	Effect of the Summer Months on Body Weight and Composition in College Women. Journal of Women's Health, 2007, 16, 1510-1515.	1.5	16
65	Sex Differences in Cardiovascular Disease Risk in Adolescents With Type 1 Diabetes. Gender Medicine, 2012, 9, 251-258.	1.4	16
66	Carbohydrate composition in breast milk and its effect on infant health. Current Opinion in Clinical Nutrition and Metabolic Care, 2020, 23, 277-281.	1.3	16
67	Characterization of body weight and composition changes during the sophomore year of college. BMC Women's Health, 2007, 7, 21.	0.8	15
68	Bioactive compounds in mothers milk affecting offspring outcomes: A narrative review. Pediatric Obesity, 2022, 17, e12892.	1.4	15
69	Impact of Type 1 Diabetes and Body Weight Status on Cardiovascular Risk Factors in Adolescent Children. Journal of Clinical Hypertension, 2011, 13, 351-356.	1.0	14
70	Is bioelectrical impedance spectroscopy accurate in estimating changes in fat-free mass in judo athletes?. Journal of Sports Sciences, 2012, 30, 1225-1233.	1.0	14
71	Association of Full Breastfeeding Duration with Postpartum Weight Retention in a Cohort of Predominantly Breastfeeding Women. Nutrients, 2019, 11, 938.	1.7	14
72	Associations of breastfeeding or formula feeding with infant anthropometry and body composition at 6 months. Maternal and Child Nutrition, 2021, 17, e13105.	1.4	14

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73	Lower Resting Energy Expenditure and Fat Oxidation in Native American and Hispanic Infants Born to Mothers with Diabetes. Journal of Pediatrics, 2015, 166, 884-889.	0.9	13
74	Associations Among Maternal Adiposity, Insulin, and Adipokines in Circulation and Human Milk. Journal of Human Lactation, 2021, 37, 714-722.	0.8	13
75	Effects of 2 Brief Interventions on Womenâ€™s Understanding of Moderate-Intensity Physical Activity. Journal of Physical Activity and Health, 2008, 5, 58-73.	1.0	12
76	TOS Scientific Position Statement: Breastfeeding and Obesity. Obesity, 2017, 25, 1864-1866.	1.5	12
77	Associations of maternal fructose and sugar-sweetened beverage and juice intake during lactation with infant neurodevelopmental outcomes at 24 months. American Journal of Clinical Nutrition, 2020, 112, 1516-1522.	2.2	11
78	Packet randomized experiments for eliminating classes of confounders. European Journal of Clinical Investigation, 2015, 45, 45-55.	1.7	9
79	Evaluation of <scp>DXA</scp> vs. <scp>MRI</scp> for body composition measures in 1â€month olds. Pediatric Obesity, 2015, 10, e8-10.	1.4	8
80	Infant sex differences in human milk intake and composition from 1- to 3-month post-delivery in a healthy United States cohort. Annals of Human Biology, 2021, 48, 455-465.	0.4	8
81	Effect of short schemes on body composition measurements using air-displacement plethysmography. Dynamic Medicine: DM, 2005, 4, 8.	2.7	7
82	Abdominal obesity adversely affects bone mass in children. World Journal of Clinical Pediatrics, 2018, 7, 43-48.	0.6	7
83	Gestational Diabetes Mellitus Is Associated with Differences in Human Milk Hormone and Cytokine Concentrations in a Fully Breastfeeding United States Cohort. Nutrients, 2022, 14, 667.	1.7	7
84	Are peristaltic pumps as reliable as syringe pumps for metabolic research? assessment of accuracy, precision, and metabolic kinetics. Metabolism: Clinical and Experimental, 2004, 53, 875-878.	1.5	6
85	Intensive glycemic control in gestational diabetes mellitus: a randomized controlled clinical feasibility trial. American Journal of Obstetrics & Gynecology MFM, 2019, 1, 100050.	1.3	6
86	Human Milk Glucose, Leptin, and Insulin Predict Cessation of Full Breastfeeding and Initiation of Formula Use. Breastfeeding Medicine, 2021, 16, 978-986.	0.8	5
87	Validity of new child-specific thoracic gas volume prediction equations for air-displacement plethysmography. BMC Pediatrics, 2006, 6, 18.	0.7	4
88	Validity of thoracic gas volume equations in children of varying body mass index classifications. Pediatric Obesity, 2007, 2, 180-187.	3.2	4
89	Challenges in infant body composition. Pediatric Research, 2012, 72, 329-329.	1.1	4
90	The relationship between bioactive components in breast milk and bone mass in infants. BoneKEy Reports, 2014, 3, 577.	2.7	4

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91	Maternal Dietary Intake of Total Fat, Saturated Fat, and Added Sugar Is Associated with Infant Adiposity and Weight Status at 6 mo of Age. Journal of Nutrition, 2021, 151, 2353-2360.	1.3	4
92	Accuracy of Step Recording in Free-Living Adults. Research Quarterly for Exercise and Sport, 2007, 78, 542-547.	0.8	3
93	A Randomized Controlled Trial Assessing Growth of Infants Fed a 100% Whey Extensively Hydrolyzed Formula Compared With a Casein-Based Extensively Hydrolyzed Formula. Global Pediatric Health, 2016, 3, 2333794X1663661.	0.3	3
94	Need for Optimal Body Composition Data Analysis Using Air-Displacement Plethysmography in Children and Adolescents. Journal of Nutrition, 2006, 136, 709.	1.3	2
95	Ageâ€related influences on markers of inflammation and fibrinolysis. FASEB Journal, 2008, 22, 923.7.	0.2	2
96	Body Composition: Assessment, Regulation, and Emerging Techniques. Journal of Obesity, 2013, 2013, 1-2.	1.1	1
97	Maternal Consumption of Sugar-Sweetened Beverages and Juices in Lactation Predicts Poorer Infant Neurodevelopment at 24 Postnatal Months. Current Developments in Nutrition, 2020, 4, nzaa054_015.	0.1	1
98	Human Milk Oligosaccharides Are Stable Over One-Week of Lactation and Over Six-Hours Following a Standardized Meal. Current Developments in Nutrition, 2021, 5, 719.	0.1	1
99	Bone Mass Accrual in First Six Months of Life: Impact of Maternal Diabetes, Infant Adiposity, and Cord Blood Adipokines. Calcified Tissue International, 0, , .	1.5	1
100	Fatores Determinantes na aptidÃ£o cardiorrespiratÃ³ria em Portugueses de diferentes etnias. DOI: 10.5007/1980-0037.2011v13n4p243. Revista Brasileira De Cineantropometria E Desempenho Humano, 2011, 13, .	0.5	0