

# Scott E Crouter

## List of Publications by Year in descending order

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Version: 2024-02-01

131  
papers

6,290  
citations

159358

30  
h-index

69108

77  
g-index

135  
all docs

135  
docs citations

135  
times ranked

6683  
citing authors

#	ARTICLE	IF	CITATIONS
1	Validity of 10 Electronic Pedometers for Measuring Steps, Distance, and Energy Cost. <i>Medicine and Science in Sports and Exercise</i> , 2003, 35, 1455-1460.	0.2	697
2	Pedometer Measures of Free-Living Physical Activity: Comparison of 13 Models. <i>Medicine and Science in Sports and Exercise</i> , 2004, 36, 331-335.	0.2	594
3	Accuracy and Reliability of 10 Pedometers for Measuring Steps over a 400-m Walk. <i>Medicine and Science in Sports and Exercise</i> , 2003, 35, 1779-1784.	0.2	512
4	Walking, Cycling, and Obesity Rates in Europe, North America, and Australia. <i>Journal of Physical Activity and Health</i> , 2008, 5, 795-814.	1.0	466
5	A novel method for using accelerometer data to predict energy expenditure. <i>Journal of Applied Physiology</i> , 2006, 100, 1324-1331.	1.2	372
6	Estimating energy expenditure using accelerometers. <i>European Journal of Applied Physiology</i> , 2006, 98, 601-612.	1.2	316
7	An artificial neural network to estimate physical activity energy expenditure and identify physical activity type from an accelerometer. <i>Journal of Applied Physiology</i> , 2009, 107, 1300-1307.	1.2	306
8	Step Counting: A Review of Measurement Considerations and Health-Related Applications. <i>Sports Medicine</i> , 2017, 47, 1303-1315.	3.1	291
9	Spring-Levered versus Piezo-Electric Pedometer Accuracy in Overweight and Obese Adults. <i>Medicine and Science in Sports and Exercise</i> , 2005, 37, 1673-1679.	0.2	248
10	A Youth Compendium of Physical Activities. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 246-256.	0.2	215
11	Accuracy and reliability of the ParvoMedics TrueOne 2400 and MedGraphics VO2000 metabolic systems. <i>European Journal of Applied Physiology</i> , 2006, 98, 139-151.	1.2	188
12	Accuracy of the Actiheart for the assessment of energy expenditure in adults. <i>European Journal of Clinical Nutrition</i> , 2008, 62, 704-711.	1.3	174
13	Results From the United States of America's 2016 Report Card on Physical Activity for Children and Youth. <i>Journal of Physical Activity and Health</i> , 2016, 13, S307-S313.	1.0	151
14	Refined Two-Regression Model for the ActiGraph Accelerometer. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 1029-1037.	0.2	138
15	Comparison of two waist-mounted and two ankle-mounted electronic pedometers. <i>European Journal of Applied Physiology</i> , 2005, 95, 335-343.	1.2	119
16	Estimating Physical Activity in Youth Using a Wrist Accelerometer. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 944-951.	0.2	105
17	Accuracy of Polar S410 Heart Rate Monitor to Estimate Energy Cost of Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2004, 36, 1433-1439.	0.2	100
18	Results from the United States 2018 Report Card on Physical Activity for Children and Youth. <i>Journal of Physical Activity and Health</i> , 2018, 15, S422-S424.	1.0	94

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19	Validity of ActiGraph 2-Regression Model, Matthews Cut-Points, and NHANES Cut-Points for Assessing Free-Living Physical Activity. <i>Journal of Physical Activity and Health</i> , 2013, 10, 504-514.	1.0	74
20	Results from the United Statesâ€™ 2014 Report Card on Physical Activity for Children and Youth. <i>Journal of Physical Activity and Health</i> , 2014, 11, S105-S112.	1.0	72
21	Use of a Two-Regression Model for Estimating Energy Expenditure in Children. <i>Medicine and Science in Sports and Exercise</i> , 2012, 44, 1177-1185.	0.2	64
22	A new 2-regression model for the Actical accelerometer. <i>British Journal of Sports Medicine</i> , 2008, 42, 217-224.	3.1	63
23	Validity of ActiGraph Child-Specific Equations during Various Physical Activities. <i>Medicine and Science in Sports and Exercise</i> , 2013, 45, 1403-1409.	0.2	51
24	Validity of the Actical for estimating free-living physical activity. <i>European Journal of Applied Physiology</i> , 2011, 111, 1381-1389.	1.2	47
25	Exploring Metrics to Express Energy Expenditure of Physical Activity in Youth. <i>PLoS ONE</i> , 2015, 10, e0130869.	1.1	44
26	Gender and Age Differences in Levels, Types and Locations of Physical Activity among Older Adults Living in Car-Dependent Neighborhoods. <i>Journal of Frailty &amp; Aging</i> , 2017, 6, 129-135.	0.8	40
27	Lifestyle Behaviors in Metabolically Healthy and Unhealthy Overweight and Obese Women: A Preliminary Study. <i>PLoS ONE</i> , 2015, 10, e0138548.	1.1	37
28	Portable open-circuit spirometry systems. <i>Journal of Sports Medicine and Physical Fitness</i> , 2017, 57, 227-237.	0.4	37
29	Estimating Energy Expenditure with ActiGraph GT9X Inertial Measurement Unit. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 1093-1102.	0.2	33
30	Domain agnostic online semantic segmentation for multi-dimensional time series. <i>Data Mining and Knowledge Discovery</i> , 2019, 33, 96-130.	2.4	33
31	Effect of ActiGraphâ€™s low frequency extension for estimating steps and physical activity intensity. <i>PLoS ONE</i> , 2017, 12, e0188242.	1.1	29
32	Accuracy of Consumer Monitors for Estimating Energy Expenditure and Activity Type. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 371-377.	0.2	28
33	Sleep, energy balance, and meal timing in school-aged children. <i>Sleep Medicine</i> , 2019, 60, 139-144.	0.8	28
34	A Randomized Trial Comparing Cardiac Rehabilitation to Standard of Care for Adults With Congenital Heart Disease. <i>World Journal for Pediatric &amp; Congenital Heart Surgery</i> , 2018, 9, 185-193.	0.3	26
35	Accuracy of the Cosmed K5 portable calorimeter. <i>PLoS ONE</i> , 2019, 14, e0226290.	1.1	25
36	Relationship between physical activity, physical performance, and iron status in adult women. <i>Applied Physiology, Nutrition and Metabolism</i> , 2012, 37, 697-705.	0.9	24

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37	Comparisons of prediction equations for estimating energy expenditure in youth. <i>Journal of Science and Medicine in Sport</i> , 2016, 19, 35-40.	0.6	22
38	Matrix Profile XIII: Time Series Snippets: A New Primitive for Time Series Data Mining. , 2018, , .		21
39	Comparison of incremental treadmill exercise and free range running. <i>Medicine and Science in Sports and Exercise</i> , 2001, 33, 644-647.	0.2	19
40	Validity of estimating minute-by-minute energy expenditure of continuous walking bouts by accelerometry. <i>International Journal of Behavioral Nutrition and Physical Activity</i> , 2011, 8, 92.	2.0	19
41	Activity recognition and intensity estimation in youth from accelerometer data aided by machine learning. <i>Applied Intelligence</i> , 2016, 45, 512-529.	3.3	18
42	Estimating physical activity in youth using an ankle accelerometer. <i>Journal of Sports Sciences</i> , 2018, 36, 2265-2271.	1.0	18
43	The effect of body placement site on ActiGraph wGT3X-BT activity counts. <i>Biomedical Physics and Engineering Express</i> , 2017, 3, 035026.	0.6	17
44	Protective role of physical activity on type 2 diabetes: <sc>A</sc> analysis of effect modification by race&€“ethnicity. <i>Journal of Diabetes</i> , 2018, 10, 166-178.	0.8	16
45	Effects of Workloads and Cadences on Frontal Plane Knee Biomechanics in Cycling. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 260-266.	0.2	15
46	Effect on Physical Activity of a Randomized Afterschool Intervention for Inner City Children in 3rd to 5th Grade. <i>PLoS ONE</i> , 2015, 10, e0141584.	1.1	13
47	Effects of an afterschool community center physical activity program on fitness and body composition in obese youth. <i>Journal of Sports Sciences</i> , 2017, 35, 1034-1040.	1.0	13
48	Feasibility and acceptability of &€œhealthy directions&€“a lifestyle intervention for adults with lung cancer. <i>Psycho-Oncology</i> , 2018, 27, 250-257.	1.0	13
49	Associations between Walk Score and objective measures of physical activity in urban overweight and obese women. <i>PLoS ONE</i> , 2019, 14, e0214092.	1.1	13
50	Exploring the Paradoxical Relationship of a Creb 3 Regulatory Factor Missense Variant With Body Mass Index and Diabetes Among Samoans: Protocol for the Soifua Manuia (Good Health) Observational Cohort Study. <i>JMIR Research Protocols</i> , 2020, 9, e17329.	0.5	13
51	Development and Validation of the Online Self-Reported Walking and Exercise Questionnaire (OSWEQ). <i>Journal of Physical Activity and Health</i> , 2013, 10, 1091-1101.	1.0	10
52	Use of consumer monitors for estimating energy expenditure in youth. <i>Applied Physiology, Nutrition and Metabolism</i> , 2020, 45, 161-168.	0.9	10
53	Effects of Brief Intermittent Walking Bouts on Step Count Accuracy of Wearable Devices. <i>Journal for the Measurement of Physical Behaviour</i> , 2019, 2, 13-21.	0.5	10
54	Descriptive analysis of resistance exercise and metabolic syndrome. <i>Diabetes and Metabolic Syndrome: Clinical Research and Reviews</i> , 2012, 6, 42-47.	1.8	9

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55	Bipart: Learning Block Structure for Activity Detection. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 2397-2409.	4.0	9
56	StepWatch accuracy during walking, running, and intermittent activities. Gait and Posture, 2017, 52, 165-170.	0.6	9
57	Energy Cost Expression for a Youth Compendium of Physical Activities: Rationale for Using Age Groups. Pediatric Exercise Science, 2018, 30, 142-149.	0.5	8
58	Knee biomechanics of patients with total knee replacement during downhill walking on different slopes. Journal of Sport and Health Science, 2022, 11, 50-57.	3.3	8
59	Utility of the Youth Compendium of Physical Activities. Research Quarterly for Exercise and Sport, 2018, 89, 273-281.	0.8	7
60	Introducing time series snippets: a new primitive for summarizing long time series. Data Mining and Knowledge Discovery, 2020, 34, 1713-1743.	2.4	7
61	Modifying Accelerometer Cut-Points Affects Criterion Validity in Simulated Free-Living for Adolescents and Adults. Research Quarterly for Exercise and Sport, 2020, 91, 514-524.	0.8	7
62	Free-Living Validation and Harmonization of 10 Wearable Step Count Monitors. Translational Journal of the American College of Sports Medicine, 2021, 6, .	0.3	7
63	Racial Differences in Neighborhood Perceptions and their Influences on Physical Activity among Urban Older Women. ALMS Public Health, 2017, 4, 149-170.	1.1	7
64	Use Of A 2-regression Model For Estimating Energy Expenditure In Children. Medicine and Science in Sports and Exercise, 2011, 43, 134.	0.2	6
65	Challenges and opportunities related to the objective assessment of physical activity within U.S. health surveys. Annals of Epidemiology, 2020, 43, 1-10.	0.9	6
66	Community health worker-delivered weight management intervention among public housing residents: A feasibility study. Preventive Medicine Reports, 2021, 22, 101360.	0.8	6
67	Youth Metabolic Equivalents Differ Depending on Operational Definitions. Medicine and Science in Sports and Exercise, 2020, 52, 1846-1853.	0.2	6
68	Validity of a Multi-Sensor Armband for Estimating Energy Expenditure during Eighteen Different Activities. Journal of Obesity & Weight Loss Therapy, 2012, 02, .	0.1	5
69	Knee biomechanics of selected knee-unfriendly movement elements in 42-form Tai Chi. International Journal of Performance Analysis in Sport, 2018, 18, 1050-1066.	0.5	5
70	Leisure-time aerobic physical activity and the risk of diabetes-related mortality: An analysis of effect modification by race-ethnicity. Journal of Diabetes and Its Complications, 2021, 35, 107763.	1.2	5
71	Mitigating Class-Boundary Label Uncertainty to Reduce Both Model Bias and Variance. ACM Transactions on Knowledge Discovery From Data, 2021, 15, 1-18.	2.5	5
72	Review of Worksite Weight Management Programs. Workplace Health and Safety, 2014, 62, 122-126.	0.7	5

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73	Effects of Knee Alignments and Toe Clip on Frontal Plane Knee Biomechanics in Cycling. <i>Journal of Sports Science and Medicine</i> , 2018, 17, 312-321.	0.7	5
74	Alternative Wear-Time Estimation Methods Compared to Traditional Diary Logs for Wrist-Worn ActiGraph Accelerometers in Pregnant Women. <i>Journal for the Measurement of Physical Behaviour</i> , 2020, 3, 110-117.	0.5	4
75	Evaluating the Performance of Sensor-Based Bout Detection Algorithms: The Transition Pairing Method. <i>Journal for the Measurement of Physical Behaviour</i> , 2020, 3, 219-227.	0.5	4
76	Effects of television on enjoyment of exercise in college students. <i>International Journal of Sport and Exercise Psychology</i> , 2018, 16, 657-669.	1.1	3
77	Use of Objective Measures to Estimate Sedentary Time in Youth. <i>Journal for the Measurement of Physical Behaviour</i> , 2018, 1, 136-142.	0.5	3
78	Application of the ActiGraph GT9X IMU for the assessment of turning during walking and running. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 065003.	0.6	3
79	Determining day-to-day human variation in indirect calorimetry using Bayesian decision theory. <i>Experimental Physiology</i> , 2018, 103, 1579-1585.	0.9	3
80	Effect of Monitor Placement on the Daily Step Counts of Wrist and Hip Activity Monitors. <i>Journal for the Measurement of Physical Behaviour</i> , 2020, 3, 164-169.	0.5	3
81	Relationship between Iron Deficiency, Physical Activity, and BMI in US Women; NHANES 99. <i>FASEB Journal</i> , 2007, 21, A1117.	0.2	3
82	Dominant vs. Non-Dominant Wrist Placement of Activity Monitors: Impact on Steps per Day. <i>Journal for the Measurement of Physical Behaviour</i> , 2019, 2, 118-123.	0.5	3
83	Knee Biomechanics of Selected Knee Unfriendly Movement Elements in 42-Form Tai Ji. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 85.	0.2	2
84	Rationale and protocol for translating basic habituation research into family-based childhood obesity treatment: Families becoming healthy together study. <i>Contemporary Clinical Trials</i> , 2020, 98, 106153.	0.8	2
85	Validity of Estimating Minute-By-Minute Energy Expenditure with Accelerometry. <i>Medicine and Science in Sports and Exercise</i> , 2008, 40, S415.	0.2	2
86	Mobile health plus community health worker support for weight management among public housing residents (Path to Health): A randomized controlled trial protocol. <i>Contemporary Clinical Trials</i> , 2022, , 106836.	0.8	2
87	Effects of Workload on Frontal Plane Knee Biomechanics during Cycling. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 87.	0.2	1
88	Validity of Self-Reported Pedometer Steps per Day in College Students. <i>Measurement in Physical Education and Exercise Science</i> , 2016, 20, 140-145.	1.3	1
89	Effects of Changing ActiGraph Bandpass Filter Width For Detecting Walking and Running. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 546-547.	0.2	1
90	Effect of Wear Location on ActiGraph Activity Counts. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 643-644.	0.2	1

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91	The Effects of Varying Structured Physical Activity Duration on Young Children's and Parents' Activity Levels. <i>Research Quarterly for Exercise and Sport</i> , 2019, 90, 578-588.	0.8	1
92	Accuracy Of The Polar S410 Heart Rate Monitor For Estimating The Energy Cost of Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2004, 36, S249.	0.2	1
93	Accuracy Of Pedometers For Measuring Steps In Overweight And Obese Individuals. <i>Medicine and Science in Sports and Exercise</i> , 2005, 37, S23-S24.	0.2	1
94	Validity Of Accelerometry During Free-living Activity. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 173.	0.2	1
95	Development Of Wrist And Ankle Cut-points For Youth With The Actigraph Accelerometer. <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 508.	0.2	1
96	Validity of Accelerometry for Estimating Free-Living Physical Activity. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 118.	0.2	0
97	Validity of ActiGraph Prediction Equations for Estimating Energy Expenditure in Children. <i>Medicine and Science in Sports and Exercise</i> , 2011, 43, 698-699.	0.2	0
98	Validity of Actical Accelerometer Algorithms for Estimating Energy Expenditure in Children. <i>Medicine and Science in Sports and Exercise</i> , 2011, 43, 699-700.	0.2	0
99	Review Of Portable Indirect Calorimetry Devices. <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 295-296.	0.2	0
100	Step.Min-1 Cut-points Based On Walking Do Not Predict Intensity Of Non-walking Activities. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 113.	0.2	0
101	Use Of Hourly Walking Breaks To Increase Physical Activity And Improve Cardiometabolic Risk Factors. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 402.	0.2	0
102	Association Between Parents' Perception Of Weight And Behavior Change And Activity In Puerto Rican Children. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 830-831.	0.2	0
103	Accuracy Of The Sensewear Armband Mini-fly For Estimating Energy Expenditure Across Bmi Categories. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 14.	0.2	0
104	Use of Hourly Walking Breaks to Increase Daily Walking Among Inactive Office Workers. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 399.	0.2	0
105	Effects Of Television Viewing On Enjoyment Of Exercise In College Students. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 738.	0.2	0
106	3214. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 856.	0.2	0
107	Validity of Self-Reported Pedometer Steps Per Day in College Students. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 327-328.	0.2	0
108	Physical Activity of Parents and Children Playing Together and the Effects of Varying Structured Activity. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 225.	0.2	0

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109	Family Factors Associated with Physical Activity and Sedentary Time in Children Living in Puerto Rico. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 885.	0.2	0
110	Viewing Television While Walking. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 304.	0.2	0
111	Improved Count Based Metrics For Estimation Of Energy Expenditure With Waist Worn Actigraph. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 647.	0.2	0
112	Modifying Accelerometer Cut-points Affects Criterion Validity in Free-living Youth and Adults. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 298.	0.2	0
113	The effect of a lifestyle risk reduction intervention on lifestyle adherence and health-related quality of life in nonsmall cell lung cancer survivors: Feasibility study outcomes. <i>Psycho-Oncology</i> , 2019, 28, 920-923.	1.0	0
114	<sc>C-reactive</sc> protein in adult Samoans: Population variation and physiological correlates. <i>American Journal of Human Biology</i> , 2022, 34, e23646.	0.8	0
115	Accuracy Of The Polar S410 Heart Rate Monitor For Estimating The Energy Cost of Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2004, 36, S249.	0.2	0
116	Urban Travel Modalities And Obesity Prevalences In Europe And North America. <i>Medicine and Science in Sports and Exercise</i> , 2005, 37, S198.	0.2	0
117	Comparison Of Two Waist-mounted And Two Ankle-mounted Electronic Pedometers. <i>Medicine and Science in Sports and Exercise</i> , 2005, 37, S24.	0.2	0
118	Relationship Between Iron Status and Physical Activity. <i>Medicine and Science in Sports and Exercise</i> , 2008, 40, S341-S342.	0.2	0
119	Association Between Parental Perceptions of Puerto Rican Children's Weight Status with BMI and Skinfold Measures. <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 621.	0.2	0
120	Validity of a 2-Regression Model for Estimating Physical Activity in Youth Using an Ankle Accelerometer. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 2.	0.2	0
121	Comparison of Physical Activity Levels Between Children Living in Puerto Rico and Continental U.S.. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 761.	0.2	0
122	Effects of Cadence Settings on Stepwatch Accuracy Between 26.8 and 268 m/min. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 102.	0.2	0
123	Associations between Walk Score and Physical Activity in Overweight and Obese Women. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 759.	0.2	0
124	Effects Of Sensitivity Settings On Stepwatch Accuracy From 26.8 To 268 M/min. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 102.	0.2	0
125	The Protective Role Of Physical Activity On Type 2 Diabetes. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 805.	0.2	0
126	Patterns of Physical Activity Change during Playground and Gardening Activities in Young Children. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 516-516.	0.2	0

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127	Step Count Error Of Activity Monitors For Patients In Phase II Cardiac Rehabilitation. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 1105-1105.	0.2	0
128	Identification Of Actigraph Wgt3x-bt Device Non-wear In Infants. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 409-409.	0.2	0
129	Discrimination of wear and non-wear in infants using data from hip- and ankle-worn devices. <i>PLoS ONE</i> , 2020, 15, e0240604.	1.1	0
130	Maximizing Fairness in Deep Neural Networks via Mode Connectivity. <i>IEEE Intelligent Systems</i> , 2022, , 1-1.	4.0	0
131	Results from the United Statesâ€™ 2014 Report Card on Physical Activity for Children and Youth. <i>Journal of Physical Activity and Health</i> , 2014, 11, S105-S112.	1.0	0