

Jairo Hidalgo Migueles

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

3,905
citations

257101

24
h-index

143772

57
g-index

85
all docs

85
docs citations

85
times ranked

4950
citing authors

#	ARTICLE	IF	CITATIONS
1	Accelerometer Data Collection and Processing Criteria to Assess Physical Activity and Other Outcomes: A Systematic Review and Practical Considerations. <i>Sports Medicine</i> , 2017, 47, 1821-1845.	3.1	1,126
2	Role of Physical Activity and Sedentary Behavior in the Mental Health of Preschoolers, Children and Adolescents: A Systematic Review and Meta-Analysis. <i>Sports Medicine</i> , 2019, 49, 1383-1410.	3.1	603
3	GGIR: A Research Communityâ€œDriven Open Source R Package for Generating Physical Activity and Sleep Outcomes From Multi-Day Raw Accelerometer Data. <i>Journal for the Measurement of Physical Behaviour</i> , 2019, 2, 188-196.	0.5	391
4	A whole brain volumetric approach in overweight/obese children: Examining the association with different physical fitness components and academic performance. The ActiveBrains project. <i>NeuroImage</i> , 2017, 159, 346-354.	2.1	113
5	Role of Physical Activity and Fitness in the Characterization and Prognosis of the Metabolically Healthy Obesity Phenotype: A Systematic Review and Meta-analysis. <i>Progress in Cardiovascular Diseases</i> , 2018, 61, 190-205.	1.6	100
6	Comparability of published cutâ€œpoints for the assessment of physical activity: Implications for data harmonization. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2019, 29, 566-574.	1.3	89
7	An exercise-based randomized controlled trial on brain, cognition, physical health and mental health in overweight/obese children (ActiveBrains project): Rationale, design and methods. <i>Contemporary Clinical Trials</i> , 2016, 47, 315-324.	0.8	88
8	Physical Fitness, Physical Activity, and the Executive Function in Children with Overweight and Obesity. <i>Journal of Pediatrics</i> , 2019, 208, 50-56.e1.	0.9	75
9	GRANADA consensus on analytical approaches to assess associations with accelerometer-determined physical behaviours (physical activity, sedentary behaviour and sleep) in epidemiological studies. <i>British Journal of Sports Medicine</i> , 2022, 56, 376-384.	3.1	67
10	Physical fitness and psychological health in overweight/obese children: A cross-sectional study from the ActiveBrains project. <i>Journal of Science and Medicine in Sport</i> , 2018, 21, 179-184.	0.6	65
11	Convergent validation of a questionnaire to assess the mode and frequency of commuting to and from school. <i>Scandinavian Journal of Public Health</i> , 2017, 45, 612-620.	1.2	57
12	A systematic review on biomechanical characteristics of walking in children and adolescents with overweight/obesity: Possible implications for the development of musculoskeletal disorders. <i>Obesity Reviews</i> , 2019, 20, 1033-1044.	3.1	57
13	Effectiveness of a Smartphone App to Promote Healthy Weight Gain, Diet, and Physical Activity During Pregnancy (HealthyMoms): Randomized Controlled Trial. <i>JMIR MHealth and UHealth</i> , 2021, 9, e26091.	1.8	56
14	Fitness, physical activity, working memory, and neuroelectric activity in children with overweight/obesity. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2019, 29, 1352-1363.	1.3	51
15	Comparability of accelerometer signal aggregation metrics across placements and dominant wrist cut points for the assessment of physical activity in adults. <i>Scientific Reports</i> , 2019, 9, 18235.	1.6	48
16	Exercise training improves sleep quality: A randomized controlled trial. <i>European Journal of Clinical Investigation</i> , 2020, 50, e13202.	1.7	41
17	Impact of Using Different Levels of Threshold-Based Artefact Correction on the Quantification of Heart Rate Variability in Three Independent Human Cohorts. <i>Journal of Clinical Medicine</i> , 2020, 9, 325.	1.0	40
18	A Smartphone App to Promote Healthy Weight Gain, Diet, and Physical Activity During Pregnancy (HealthyMoms): Protocol for a Randomized Controlled Trial. <i>JMIR Research Protocols</i> , 2019, 8, e13011.	0.5	39

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19	Evaluation of the effect of <i>Lactobacillus reuteri</i> V3401 on biomarkers of inflammation, cardiovascular risk and liver steatosis in obese adults with metabolic syndrome: a randomized clinical trial (PROSIR). <i>BMC Complementary and Alternative Medicine</i> , 2018, 18, 306.	3.7	38
20	Fitness, cortical thickness and surface area in overweight/obese children: The mediating role of body composition and relationship with intelligence. <i>NeuroImage</i> , 2019, 186, 771-781.	2.1	36
21	Twenty four-hour activity cycle in older adults using wrist-worn accelerometers: The seniors-NRICA study. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2020, 30, 700-708.	1.3	36
22	Healthier Minds in Fitter Bodies: A Systematic Review and Meta-Analysis of the Association between Physical Fitness and Mental Health in Youth. <i>Sports Medicine</i> , 2021, 51, 2571-2605.	3.1	35
23	Fitness, physical activity and academic achievement in overweight/obese children. <i>Journal of Sports Sciences</i> , 2020, 38, 731-740.	1.0	31
24	Fitness, physical activity, sedentary time, inhibitory control, and neuroelectric activity in children with overweight or obesity: The ActiveBrains project. <i>Psychophysiology</i> , 2020, 57, e13579.	1.2	27
25	Feasibility and reliability of the Spanish version of the Youth Activity Profile questionnaire (YAP-Spain) in children and adolescents. <i>Journal of Sports Sciences</i> , 2021, 39, 801-807.	1.0	27
26	Associations between objectively measured and self-reported sleep with academic and cognitive performance in adolescents: DADOS study. <i>Journal of Sleep Research</i> , 2019, 28, e12811.	1.7	26
27	Evaluation of the wrist-worn ActiGraph wGT3x-BT for estimating activity energy expenditure in preschool children. <i>European Journal of Clinical Nutrition</i> , 2017, 71, 1212-1217.	1.3	25
28	Association of Sedentary Behavior with Brain Structure and Intelligence in Children with Overweight or Obesity: The ActiveBrains Project. <i>Journal of Clinical Medicine</i> , 2020, 9, 1101.	1.0	24
29	Calibration and Cross-Validation of Accelerometer Cut-Points to Classify Sedentary Time and Physical Activity from Hip and Non-Dominant and Dominant Wrists in Older Adults. <i>Sensors</i> , 2021, 21, 3326.	2.1	23
30	Associations of physical activity and fitness with hepatic steatosis, liver enzymes, and insulin resistance in children with overweight/obesity. <i>Pediatric Diabetes</i> , 2020, 21, 565-574.	1.2	22
31	Association of objectively measured physical activity with brown adipose tissue volume and activity in young adults. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2019, 104, 223-233.	1.8	21
32	Fatness and fitness in relation to functional movement quality in overweight and obese children. <i>Journal of Sports Sciences</i> , 2019, 37, 878-885.	1.0	21
33	Inter- and intra-researcher reproducibility of heart rate variability parameters in three human cohorts. <i>Scientific Reports</i> , 2020, 10, 11399.	1.6	21
34	Study protocol and rationale of the "Cogni-action project" a cross-sectional and randomized controlled trial about physical activity, brain health, cognition, and educational achievement in schoolchildren. <i>BMC Pediatrics</i> , 2019, 19, 260.	0.7	20
35	Sedentarism, Physical Activity, Steps, and Neurotrophic Factors in Obese Children. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 2325-2333.	0.2	20
36	Effects of Exercise on Body Posture, Functional Movement, and Physical Fitness in Children With Overweight/Obesity. <i>Journal of Strength and Conditioning Research</i> , 2020, 34, 2146-2155.	1.0	19

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37	Associations of Objectively-Assessed Physical Activity and Sedentary Time with Hippocampal Gray Matter Volume in Children with Overweight/Obesity. <i>Journal of Clinical Medicine</i> , 2020, 9, 1080.	1.0	18
38	The Role of Heart Rate on the Associations Between Body Composition and Heart Rate Variability in Children With Overweight/Obesity: The ActiveBrains Project. <i>Frontiers in Physiology</i> , 2019, 10, 895.	1.3	15
39	Do fitter kids have bigger brains?. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2020, 30, 2498-2502.	1.3	14
40	Association of sedentary and physical activity time with maximal fat oxidation during exercise in sedentary adults. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2020, 30, 1605-1614.	1.3	14
41	Association of Physical Activity, Sedentary Behavior, and Sleep With Unhealthy Aging: Consistent Results for Device-Measured and Self-reported Behaviors Using Isotemporal Substitution Models. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, 76, 85-94.	1.7	13
42	Physical Activity, Sedentary Behavior, and White Matter Microstructure in Children with Overweight or Obesity. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 1218-1226.	0.2	12
43	Sleep duration and quality are not associated with brown adipose tissue volume or activity as determined by 18F-FDG uptake, in young, sedentary adults. <i>Sleep</i> , 2019, 42, .	0.6	11
44	Heart Rate Is a Better Predictor of Cardiorespiratory Fitness Than Heart Rate Variability in Overweight/Obese Children: The ActiveBrains Project. <i>Frontiers in Physiology</i> , 2019, 10, 510.	1.3	11
45	Associations of sleep with gray matter volume and their implications for academic achievement, executive function and intelligence in children with overweight/obesity. <i>Pediatric Obesity</i> , 2021, 16, e12707.	1.4	11
46	Early life factors, gray matter brain volume and academic performance in overweight/obese children: The ActiveBrains project. <i>NeuroImage</i> , 2019, 202, 116130.	2.1	10
47	Accelerometer Data Processing and Energy Expenditure Estimation in Preschoolers. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 590-598.	0.2	10
48	Effects of Exercise on Plantar Pressure during Walking in Children with Overweight/Obesity. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 654-662.	0.2	10
49	Maternal physical activity and sedentary behaviour before and during in vitro fertilization treatment: a longitudinal study exploring the associations with controlled ovarian stimulation and pregnancy outcomes. <i>Journal of Assisted Reproduction and Genetics</i> , 2020, 37, 1869-1881.	1.2	10
50	Influence of meteorological conditions on physical activity in adolescents. <i>Journal of Epidemiology and Community Health</i> , 2020, 74, 395-400.	2.0	10
51	Gender influences physical activity changes during adolescence: The HELENA study. <i>Clinical Nutrition</i> , 2019, 38, 2900-2905.	2.3	9
52	Associations of dietary energy density with body composition and cardiometabolic risk in children with overweight and obesity: role of energy density calculations, under-reporting energy intake and physical activity. <i>British Journal of Nutrition</i> , 2019, 121, 1057-1068.	1.2	9
53	Hip and wrist accelerometers showed consistent associations with fitness and fatness in children aged 8-12 years. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2020, 109, 995-1003.	0.7	9
54	Differences in Brain Volume between Metabolically Healthy and Unhealthy Overweight and Obese Children: The Role of Fitness. <i>Journal of Clinical Medicine</i> , 2020, 9, 1059.	1.0	9

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55	Comparing estimates of physical activity in children across different cut-points and the associations with weight status. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2022, 32, 971-983.	1.3	9
56	Muscular Fitness Mediates the Association between 25-Hydroxyvitamin D and Areal Bone Mineral Density in Children with Overweight/Obesity. <i>Nutrients</i> , 2019, 11, 2760.	1.7	8
57	Does sleep-disordered breathing add to impairments in academic performance and brain structure usually observed in children with overweight/obesity?. <i>European Journal of Pediatrics</i> , 2022, 181, 2055-2065.	1.3	8
58	Revisiting the cross-sectional and prospective association of physical activity with body composition and physical fitness in preschoolers: A compositional data approach. <i>Pediatric Obesity</i> , 2022, 17, e12909.	1.4	8
59	The role of heart rate in the assessment of cardiac autonomic modulation with heart rate variability. <i>Clinical Research in Cardiology</i> , 2019, 108, 1408-1409.	1.5	7
60	Differences in areal bone mineral density between metabolically healthy and unhealthy overweight/obese children: the role of physical activity and cardiorespiratory fitness. <i>Pediatric Research</i> , 2020, 87, 1219-1225.	1.1	7
61	Interpretation of associations between the accelerometry physical activity spectrum and cardiometabolic health and locomotor skills in two cohorts of children using raw, normalized, log-transformed, or compositional data. <i>Journal of Sports Sciences</i> , 2020, 38, 2708-2719.	1.0	7
62	Revisiting the association of sedentary behavior and physical activity with all-cause mortality using a compositional approach: the Women's Health Study. <i>International Journal of Behavioral Nutrition and Physical Activity</i> , 2021, 18, 104.	2.0	7
63	Associations of Sedentary Behaviour, Physical Activity, Cardiorespiratory Fitness and Body Composition with Risk of Sleep-Related Breathing Disorders in Children with Overweight/Obesity: A Cross-Sectional Study. <i>Journal of Clinical Medicine</i> , 2020, 9, 1544.	1.0	7
64	Activity-rest circadian pattern and academic achievement, executive function, and intelligence in children with obesity. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2021, 31, 653-664.	1.3	6
65	Physical fitness and brain source localization during a working memory task in children with overweight/obesity: The ActiveBrains project. <i>Developmental Science</i> , 2021, 24, e13048.	1.3	5
66	Deciphering the constrained total energy expenditure model in humans by associating accelerometer-measured physical activity from wrist and hip. <i>Scientific Reports</i> , 2021, 11, 12302.	1.6	5
67	Further Evidence on Cardiorespiratory Fitness as a Key Factor for the Metabolically Healthy Obese Phenotype Independent of Race. <i>Journal of Adolescent Health</i> , 2019, 64, 290-291.	1.2	4
68	Step-Based Metrics and Overall Physical Activity in Children With Overweight or Obesity: Cross-Sectional Study. <i>JMIR MHealth and UHealth</i> , 2020, 8, e14841.	1.8	4
69	The effects of a lifestyle intervention (the <sc>HealthyMoms</sc> app) during pregnancy on infant body composition: Secondary outcome analysis from a randomized controlled trial. <i>Pediatric Obesity</i> , 2022, 17, e12894.	1.4	4
70	Associations of Mediterranean diet with psychological ill-being and well-being throughout the pregnancy course: The GESTAFIT project. <i>Quality of Life Research</i> , 2022, 31, 2705-2716.	1.5	4
71	Associations of Sleep-Related Outcomes with Behavioral and Emotional Functioning in Children with Overweight/Obesity. <i>Journal of Pediatrics</i> , 2022, 246, 170-178.e2.	0.9	4
72	Equivalency of four research-grade movement sensors to assess movement behaviors and its implications for population surveillance. <i>Scientific Reports</i> , 2022, 12, 5525.	1.6	4

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73	Validity of Slaughter Equations and Bioelectrical Impedance Against Dualâ€Energy Xâ€Ray Absorptiometry in Children. <i>Obesity</i> , 2020, 28, 803-812.	1.5	3
74	Critique of: â€Physical Activity Assessment Between Consumer- and Research-Grade Accelerometers: A Comparative Study in Free-Living Conditionsâ€• <i>JMIR MHealth and UHealth</i> , 2017, 5, e15.	1.8	2
75	Effects of integrative neuromuscular training on the gait biomechanics of children with overweight and obesity. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2022, 32, 1119-1130.	1.3	2
76	Leptin levels were negatively associated with lumbar spine bone mineral content in children with overweight or obesity. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2022, 111, 1966-1973.	0.7	2
77	Physical Fitness Components And Cortical And Subcortical Brain Volume In Overweight/obese Children. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 514.	0.2	0
78	Blood Flow-Restricted Training in Older Adults: A Narrative Review. <i>Journal of Science in Sport and Exercise</i> , 2020, 2, 25-37.	0.4	0
79	Higher Physical Activity Is Related to Lower Neck Adiposity in Young Men, but to Higher Neck Adiposity in Young Women: An Exploratory Study. <i>International Journal of Sport Nutrition and Exercise Metabolism</i> , 2021, 31, 250-258.	1.0	0