Duncan S Buchan

List of Publications by Year
in descending order

52	905	516215 16	525886 27
papers	citations	h-index	g-index

57	57	57	1476
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The effects of time and intensity of exercise on novel and established markers of CVD in adolescent youth. American Journal of Human Biology, 2011, 23, 517-526.	0.8	88
2	Physical Activity Behaviour: An Overview of Current and Emergent Theoretical Practices. Journal of Obesity, 2012, 2012, 1-11.	1.1	78
3	Text Messaging Interventions for Improvement in Physical Activity and Sedentary Behavior in Youth: Systematic Review. JMIR MHealth and UHealth, 2018, 6, e10799.	1.8	71
4	High intensity interval running enhances measures of physical fitness but not metabolic measures of cardiovascular disease risk in healthy adolescents. BMC Public Health, 2013, 13, 498.	1.2	57
5	High Intensity Interval Training (HIIT) Improves Cardiorespiratory Fitness (CRF) in Healthy, Overweight and Obese Adolescents: A Systematic Review and Meta-Analysis of Controlled Studies. International Journal of Environmental Research and Public Health, 2020, 17, 2955.	1.2	55
6	Physical activity interventions: effects of duration and intensity. Scandinavian Journal of Medicine and Science in Sports, 2011, 21, e341-50.	1.3	45
7	Wear compliance, sedentary behaviour and activity in free-living children from hip-and wrist-mounted ActiGraph GT3X+ accelerometers. Journal of Sports Sciences, 2018, 36, 2424-2430.	1.0	35
8	The influence of a high intensity physical activity intervention on a selection of health related outcomes: an ecological approach. BMC Public Health, 2010, 10, 8.	1.2	32
9	A comparison of physical activity from Actigraph <scp>GT</scp>3X+ accelerometers worn on the dominant and nonâ€dominant wrist. Clinical Physiology and Functional Imaging, 2019, 39, 51-56.	0.5	27
10	Relationships between Cardiorespiratory and Muscular Fitness with Cardiometabolic Risk in Adolescents. Research in Sports Medicine, 2015, 23, 227-239.	0.7	24
11	A Systematised Review of Primary School Whole Class Child Obesity Interventions: Effectiveness, Characteristics, and Strategies. BioMed Research International, 2016, 2016, 1-15.	0.9	24
12	Segmented sedentary time and physical activity patterns throughout the week from wrist-worn ActiGraph GT3X+ accelerometers among children 7â€“12 years old. Journal of Sport and Health Science, 2020, 9, 179-188.	3.3	23
13	Novel Risk Factors of Cardiovascular Disease and their Associations between Obesity, Physical Activity and Physical Fitness. Journal of Public Health Research, 2012, 1, jphr.2012.e11.	0.5	20
14	Recruiting Older Men to Walking Football: A Pilot Feasibility Study. Explore: the Journal of Science and Healing, 2019, 15, 206-214.	0.4	18
15	The Effects of a Novel High Intensity Exercise Intervention on Established Markers of Cardiovascular Disease and Health in Scottish Adolescent Youth. Journal of Public Health Research, 2012, 1, jphr.2012.e24.	0.5	17
16	The use of the intensity gradient and average acceleration metrics to explore associations with BMI z-score in children. Journal of Sports Sciences, 2019, 37, 2751-2758.	1.0	17
17	Sprint Interval Training and the School Curriculum: Benefits Upon Cardiorespiratory Fitness, Physical Activity Profiles, and Cardiometabolic Risk Profiles of Healthy Adolescents. Pediatric Exercise Science, 2019, 31, 296-305.	0.5	17
18	Grip Strength Cut Points for Diabetes Risk Among Apparently Healthy U.S. Adults. American Journal of Preventive Medicine, 2020, 58, 757-765.	1.6	17

#	Article	IF	Citations
19	Independent associations between cardiorespiratory fitness, waist circumference, BMI, and clustered cardiometabolic risk in adolescents. American Journal of Human Biology, 2014, 26, 29-35.	0.8	16
20	Utility of the hypertriglyceridemic waist phenotype in the cardiometabolic risk assessment of youth stratified by body mass index. Pediatric Obesity, 2016, 11, 292-298.	1.4	16
21	Sprint interval training (SIT) is an effective method to maintain cardiorespiratory fitness (CRF) and glucose homeostasis in Scottish adolescents. Biology of Sport, 2015, 32, 307-313.	1.7	16
22	A Personalized Smartphone-Delivered Just-in-time Adaptive Intervention (JitaBug) to Increase Physical Activity in Older Adults: Mixed Methods Feasibility Study. JMIR Formative Research, 2022, 6, e34662.	0.7	16
23	Fitness and Adiposity Are Independently Associated with Cardiometabolic Risk in Youth. BioMed Research International, 2013, 2013, 1-6.	0.9	15
24	Utility of international normative 20 m shuttle run values for identifying youth at increased cardiometabolic risk. Journal of Sports Sciences, 2019, 37, 507-514.	1.0	15
25	Comparison of Free-Living and Laboratory Activity Outcomes from ActiGraph Accelerometers Worn on the Dominant and Non-Dominant Wrists. Measurement in Physical Education and Exercise Science, 2020, 24, 247-257.	1.3	15
26	The use of complementary and alternative medicine by nurses. British Journal of Nursing, 2012, 21, 672-675.	0.3	14
27	Cardiorespiratory fitness predicts clustered cardiometabolic risk in 10â€“11.9-year-olds. European Journal of Pediatrics, 2013, 172, 913-918.	1.3	13
28	Utility of Body Mass Index, Waist-to-Height-Ratio and cardiorespiratory fitness thresholds for identifying cardiometabolic risk in 10.4â€“17.6-year-old children. Obesity Research and Clinical Practice, 2017, 11, 567-575.	0.8	13
29	Diagnostic performance of Body Mass Index, Waist Circumference and the Waist-to-Height Ratio for identifying cardiometabolic risk in Scottish pre-adolescents. Annals of Human Biology, 2017, 44, 297-302.	0.4	12
30	Comparing physical activity estimates in children from hip-worn Actigraph GT3X+ accelerometers using raw and counts based processing methods. Journal of Sports Sciences, 2019, 37, 779-787.	1.0	12
31	Generation and validation of ActiGraph GT3X+ accelerometer cut-points for assessing physical activity intensity in older adults. The OUTDOOR ACTIVE validation study. PLoS ONE, 2021, 16, e0252615.	1.1	10
32	Primary School Children's Health Behaviors, Attitudes, and Body Mass Index After a 10-Week Lifestyle Intervention With Follow-Up. Frontiers in Pediatrics, 2018, 6, 137.	0.9	8
33	Schoolâ€based physical activity interventions: challenges and pitfalls. Child: Care, Health and Development, 2012, 38, 1-2.	0.8	6
34	Prevalence of traditional and novel markers of cardiovascular disease risk in Scottish adolescents: socioeconomic effects. Applied Physiology, Nutrition and Metabolism, 2012, 37, 829-839.	0.9	5
35	Utility of three anthropometric indices in assessing the cardiometabolic risk profile in children. American Journal of Human Biology, 2017, 29, e22934.	0.8	5
36	Re-examination of 1- vs. 3-Sets of Resistance Exercise for Pre-spaceflight Muscle Conditioning: A Systematic Review and Meta-Analysis. Frontiers in Physiology, 2019, 10, 864.	1.3	5

#	Article	IF	Citations
37	Fit for school: results of a 10-week school-based child healthy weight pilot intervention for primary school students. International Journal of Health Promotion and Education, 2016, 54, 229-244.	0.4	4
38	Relationship Between Parent and Child Physical Activity Using Novel Acceleration Metrics. Research Quarterly for Exercise and Sport, 2020, , 1-9.	0.8	4
39	Equivalence of activity outcomes derived from three research grade accelerometers worn simultaneously on each wrist. Journal of Sports Sciences, 2022, 40, 797-807.	1.0	4
40	A criterion-referenced assessment is needed for measuring child obesity. Research in Sports Medicine, 2017, 25, 108-110.	0.7	3
41	Feasibility and Acceptability of a Classroom-Based Active Breaks Intervention for 8â€“12-Year-Old Children. Research Quarterly for Exercise and Sport, 2022, 93, 813-824.	0.8	3
42	The Effects of Socioeconomic Status on Parent and Child Moderate-to-Vigorous Physical Activity and Body Mass Index. Research Quarterly for Exercise and Sport, 2021, , 1-11.	0.8	2
43	RELATIONSHIPS AMONG INDICATORS OF FITNESS, FATNESS AND CARDIOVASCULAR DISEASE RISK FACTORS IN ADOLESCENTS. OnLine Journal of Biological Sciences, 2012, 12, 89-95.	0.2	1
44	A feasibility study with process evaluation of a teacher led resource to improve measures of child health. PLoS ONE, 2019, 14, e0218243.	1.1	1
45	An Insight Into the Involvement of Mothers of Low Socioeconomic Status in Scottish Primary School Health Education Activities. Health Education and Behavior, 2020, 47, 111-122.	1.3	1
46	The 10-week Lifestyle Intervention Fit for School: Impact on Obesity Indices, Biomarkers, and Blood Pressure. Health Behavior and Policy Review, 2017, 4, 142-149.	0.3	1
47	Cardio-respiratory fitness and muscular fitness levels of Scottish youth and their associations with physical activity. Biology of Exercise, 2012, 8, 32-46.	0.0	1
48	Weight Status, Physical Activity and the Associations with Health Related Physical Fitness in Nine to Twelve Year Old Scottish Children. , 2013, 03, .		1
49	The 10-week Lifestyle Intervention Fit For School. Medicine and Science in Sports and Exercise, 2016, 48, 593.	0.2	0
50	Cardio-Metabolic Risk Factors in Scottish South Asian and Caucasian Youth. International Journal of Environmental Research and Public Health, 2021, 18, 4667.	1.2	0
51	Alterations in peak torque occur without hematological changes after muscle fatigue. Revista Brasileira De Medicina Do Esporte, 2017, 23, 180-183.	0.1	0
52	Muscular Strength Cut-points For Detection Of Type 2 Diabetes Risk In Apparently Healthy Adults. Medicine and Science in Sports and Exercise, 2020, 52, 503-503.	0.2	0