Michael I Trenell

List of Publications by Year
in descending order

58 papers	4,064 citations	185998 28 h-index	149479 56 g-index
60 all docs	60 docs citations	60 times ranked	6762 citing authors

#	Article	IF	Citations
1	Large Scale Population Assessment of Physical Activity Using Wrist Worn Accelerometers: The UK Biobank Study. PLoS ONE, 2017, 12, e0169649.	1.1	654
2	A Novel, Open Access Method to Assess Sleep Duration Using a Wrist-Worn Accelerometer. PLoS ONE, 2015, 10, e0142533.	1.1	432
3	Autocalibration of accelerometer data for free-living physical activity assessment using local gravity and temperature: an evaluation on four continents. Journal of Applied Physiology, 2014, 117, 738-744.	1.2	413
4	Association Between Questionnaire- and Accelerometer-Assessed Physical Activity: The Role of Sociodemographic Factors. American Journal of Epidemiology, 2014, 179, 781-790.	1.6	225
5	Modified high-intensity interval training reduces liver fat and improves cardiac function in non-alcoholic fatty liver disease: a randomized controlled trial. Clinical Science, 2015, 129, 1097-1105.	1.8	165
6	Exercise Reduces Liver Lipids and Visceral Adiposity in PatientsÂWith Nonalcoholic Steatohepatitis in a Randomized Controlled Trial. Clinical Gastroenterology and Hepatology, 2017, 15, 96-102.e3.	2.4	163
7	High-intensity interval training: a review of its impact on glucose control and cardiometabolic health. Diabetologia, 2017, 60, 7-23.	2.9	157
8	High intensity intermittent exercise improves cardiac structure and function and reduces liver fat in patients with type 2 diabetes: a randomised controlled trial. Diabetologia, 2016, 59, 56-66.	2.9	141
9	Cross-sectional study of diet, physical activity, television viewing and sleep duration in 233â€…110 adults from the UK Biobank; the behavioural phenotype of cardiovascular disease and type 2 diabetes. BMJ Open, 2016, 6, e010038.	0.8	128
10	Effects of Community Exercise Therapy on Metabolic, Brain, Physical, and Cognitive Function Following Stroke. Neurorehabilitation and Neural Repair, 2015, 29, 623-635.	1.4	102
11	Movement Recognition Technology as a Method of Assessing Spontaneous General Movements in High Risk Infants. Frontiers in Neurology, 2014, 5, 284.	1.1	100
12	Non-alcoholic fatty liver disease is associated with higher levels ofobjectivelymeasured sedentary behaviour and lower levels of physical activity than matched healthy controls. Frontline Gastroenterology, 2015, 6, 44-51.	0.9	91
13	Gut Microbiota and Lifestyle Interventions in NAFLD. International Journal of Molecular Sciences, 2016, 17, 447.	1.8	75
14	Systematic review assessing the effectiveness of dietary intervention on gut microbiota in adults with type 2 diabetes. Diabetologia, 2018, 61, 1700-1711.	2.9	74
15	Effect of Left Ventricular Assist Device Implantation and Heart Transplantation on Habitual Physical Activity and Quality of Life. American Journal of Cardiology, 2014, 114, 88-93.	0.7	65
16	Prevalence and risk factors for prolonged QT interval and QT dispersion in patients with type 2 diabetes. Acta Diabetologica, 2016, 53, 737-744.	1.2	63
17	Increased Daily Walking Improves Lipid Oxidation Without Changes in Mitochondrial Function in Type 2 Diabetes. Diabetes Care, 2008, 31, 1644-1649.	4.3	61
18	Ingestion of glucose or sucrose prevents liver but not muscle glycogen depletion during prolonged endurance-type exercise in trained cyclists. American Journal of Physiology - Endocrinology and Metabolism, 2015, 309, E1032-E1039.	1.8	60

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19	Bioimpedance and bioreactance methods for monitoring cardiac output. Bailliere's Best Practice and Research in Clinical Anaesthesiology, 2014, 28, 381-394.	1.7	56
20	A comparison of subjective and objective measures of physical activity from the Newcastle 85+ study. Age and Ageing, 2015, 44, 691-694.	0.7	53
21	A Lowâ€“Glycemic Index Meal and Bedtime Snack Prevents Postprandial Hyperglycemia and Associated Rises in Inflammatory Markers, Providing Protection From Early but Not Late Nocturnal Hypoglycemia Following Evening Exercise in Type 1 Diabetes. Diabetes Care, 2014, 37, 1845-1853.	4.3	52
22	Low physical activity, high television viewing and poor sleep duration cluster in overweight and obese adults; a cross-sectional study of 398,984 participants from the UK Biobank. International Journal of Behavioral Nutrition and Physical Activity, 2017, 14, 57.	2.0	51
23	The degree of hepatic steatosis associates with impaired cardiac and autonomic function. Journal of Hepatology, 2019, 70, 1203-1213.	1.8	45
24	Sucrose ingestion after exhaustive exercise accelerates liver, but not muscle glycogen repletion compared with glucose ingestion in trained athletes. Journal of Applied Physiology, 2016, 120, 1328-1334.	1.2	43
25	Metabolic Implications when Employing Heavy Pre- and Post-Exercise Rapid-Acting Insulin Reductions to Prevent Hypoglycaemia in Type 1 Diabetes Patients: A Randomised Clinical Trial. PLoS ONE, 2014, 9, e97143.	1.1	38
26	Lifestyle Behavior Change in Patients With Nonalcoholic Fatty Liver Disease: A Qualitative Study of Clinical Practice. Clinical Gastroenterology and Hepatology, 2017, 15, 1968-1971.	2.4	37
27	The effect of age on the relationship between cardiac and vascular function. Mechanisms of Ageing and Development, 2016, 153, 1-6.	2.2	35
28	Targeting Lifestyle Behavior Change in Adults with NAFLD During a 20-min Consultation: Summary of the Dietary and Exercise Literature. Current Gastroenterology Reports, 2016, 18, 11.	1.1	34
29	Accelerometer-derived physical activity in those with cardio-metabolic disease compared to healthy adults: a UK Biobank study of 52,556 participants. Acta Diabetologica, 2018, 55, 975-979.	1.2	33
30	Measuring Habitual Physical Activity inÂNeuromuscular Disorders: A Systematic Review. Journal of Neuromuscular Diseases, 2017, 4, 25-52.	1.1	28
31	Impact of Age-Related Mitochondrial Dysfunction and Exercise on Intestinal Microbiota Composition. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2018, 73, 571-578.	1.7	28
32	Feasibility of a Very Low Calorie Diet to Achieve a Sustainable 10% Weight Loss in Patients With Nonalcoholic Fatty Liver Disease. Clinical and Translational Gastroenterology, 2020, 11, e00231.	1.3	28
33	Effect of Physical Activity on Age-Related Changes in Cardiac Function and Performance in Women. Circulation: Cardiovascular Imaging, 2015, 8, .	1.3	27
34	Dietary nitrate does not affect physical activity or outcomes in healthy older adults in a randomized, cross-over trial. Nutrition Research, 2016, 36, 1361-1369.	1.3	25
35	Supervised walking improves cardiorespiratory fitness, exercise tolerance, and fatigue in women with primary SjÃ¶grenâ€™s syndrome: a randomized-controlled trial. Rheumatology International, 2019, 39, 227-238.	1.5	20
36	Systematic development of a theory-informed multifaceted behavioural intervention to increase physical activity of adults with type 2 diabetes in routine primary care: Movement as Medicine for Type 2 Diabetes. Implementation Science, 2015, 11, 99.	2.5	19

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37	Sedentary behaviour, physical activity, and NAFLD: Curse of the chair. Journal of Hepatology, 2015, 63, 1064-1065.	1.8	19
38	Pathophysiology of exercise intolerance in chronic diseases: the role of diminished cardiac performance in mitochondrial and heart failure patients. Open Heart, 2017, 4, e000632.	0.9	19
39	A study of physical activity comparing people with Charcot-Marie-Tooth disease to normal control subjects. Disability and Rehabilitation, 2017, 39, 1753-1758.	0.9	19
40	Effect of high and low glycaemic index recovery diets on intramuscular lipid oxidation during aerobic exercise. British Journal of Nutrition, 2008, 99, 326-332.	1.2	17
41	Physical activity but not sedentary activity is reduced in primary SjÃ¶grenâ€™s syndrome. Rheumatology International, 2017, 37, 623-631.	1.5	16
42	Impact of age on the association between cardiac high-energy phosphate metabolism and cardiac power in women. Heart, 2018, 104, 111-118.	1.2	15
43	The effect of percutaneous coronary intervention on habitual physical activity in older patients. BMC Cardiovascular Disorders, 2016, 16, 248.	0.7	14
44	Exercise Induces Peripheral Muscle But Not Cardiac Adaptations After Stroke: A Randomized Controlled Pilot Trial. Archives of Physical Medicine and Rehabilitation, 2016, 97, 596-603.	0.5	12
45	Simultaneous Electrochemical Detection of Glucose and Non-Esterified Fatty Acids (NEFAs) for Diabetes Management. IEEE Sensors Journal, 2018, 18, 9075-9080.	2.4	12
46	Using Wearable Activity Trackers to Predict Type 2 Diabetes: Machine Learningâ€“Based Cross-sectional Study of the UK Biobank Accelerometer Cohort. JMIR Diabetes, 2021, 6, e23364.	0.9	12
47	Comparison of cardiac output estimates by bioreactance and inert gas rebreathing methods during cardiopulmonary exercise testing. Clinical Physiology and Functional Imaging, 2018, 38, 483-490.	0.5	11
48	In Vivo Mitochondrial Function in HIV-Infected Persons Treated with Contemporary Anti-Retroviral Therapy: A Magnetic Resonance Spectroscopy Study. PLoS ONE, 2014, 9, e84678.	1.1	10
49	Skeletal muscle mitochondrial oxidative phosphorylation function in idiopathic pulmonary arterial hypertension: in vivo and in vitro study. Pulmonary Circulation, 2018, 8, 1-5.	0.8	10
50	Effects of Exercise on Liver Fat and Metabolism in Alcohol Drinkers. Clinical Gastroenterology and Hepatology, 2017, 15, 1596-1603.e3.	2.4	9
51	High intensity interval training protects the heart during increased metabolic demand in patients with type 2 diabetes: a randomised controlled trial. Acta Diabetologica, 2019, 56, 321-329.	1.2	9
52	Preliminary Evaluation of Clinician Rated Outcome Measures in Mitochondrial Disease. Journal of Neuromuscular Diseases, 2015, 2, 151-155.	1.1	8
53	The cardio-metabolic impact of taking commonly prescribed analgesic drugs in 133,401 UK Biobank participants. PLoS ONE, 2017, 12, e0187982.	1.1	8
54	Age-related decline in cardiac autonomic function is not attenuated with increased physical activity. Oncotarget, 2016, 7, 76390-76397.	0.8	7

#	Article	IF	Citations
55	Exercise therapy in primary biliary cirrhosis: the importance of moving while sitting on a surgical waiting listâ€”a case study: TableÂ1. Frontline Gastroenterology, 2016, 7, 167-169.	0.9	7
56	Automating the Placement of Time Series Models for IoT Healthcare Applications. , 2018, , .		7
57	Does the liver accelerate ageing: Talking muscles and liver?. Journal of Hepatology, 2017, 66, 8-10.	1.8	2
58	Movement as Medicine for Cardiovascular Disease Prevention: Pilot Feasibility Study of a Physical Activity Promotion Intervention for At-Risk Patients in Primary Care. JMIR Cardio, 2022, 6, e29035.	0.7	0