

Ronald J Sigal

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102
papers

4,953
citations

24
h-index

70
g-index

108
ext. papers

5,908
ext. citations

4.6
avg, IF

5.44
L-index

#	Paper	IF	Citations
102	Physical Activity/Exercise and Diabetes: A Position Statement of the American Diabetes Association. <i>Diabetes Care</i> , 2016 , 39, 2065-2079	14.6	1050
101	Effects of aerobic training, resistance training, or both on glycemic control in type 2 diabetes: a randomized trial. <i>Annals of Internal Medicine</i> , 2007 , 147, 357-69	8	764
100	Physical activity/exercise and type 2 diabetes: a consensus statement from the American Diabetes Association. <i>Diabetes Care</i> , 2006 , 29, 1433-8	14.6	693
99	Physical activity/exercise and type 2 diabetes. <i>Diabetes Care</i> , 2004 , 27, 2518-39	14.6	513
98	Heat stress in older individuals and patients with common chronic diseases. <i>Cmaj</i> , 2010 , 182, 1053-60	3.5	273
97	Factors associated with physical activity in Canadian adults with diabetes. <i>Medicine and Science in Sports and Exercise</i> , 2006 , 38, 1526-34	1.2	134
96	Resistance versus aerobic exercise: acute effects on glycemia in type 1 diabetes. <i>Diabetes Care</i> , 2013 , 36, 537-42	14.6	133
95	Effects of aerobic training, resistance training, or both on percentage body fat and cardiometabolic risk markers in obese adolescents: the healthy eating aerobic and resistance training in youth randomized clinical trial. <i>JAMA Pediatrics</i> , 2014 , 168, 1006-14	8.3	112
94	Body temperature regulation in diabetes. <i>Temperature</i> , 2016 , 3, 119-45	5.2	105
93	Age-related decrements in heat dissipation during physical activity occur as early as the age of 40. <i>PLoS ONE</i> , 2013 , 8, e83148	3.7	72
92	Physical Activity and Diabetes. <i>Canadian Journal of Diabetes</i> , 2018 , 42 Suppl 1, S54-S63	2.1	69
91	Aging impairs heat loss, but when does it matter?. <i>Journal of Applied Physiology</i> , 2015 , 118, 299-309	3.7	63
90	Hyperthermia and cardiovascular strain during an extreme heat exposure in young versus older adults. <i>Temperature</i> , 2017 , 4, 79-88	5.2	61
89	Age-related differences in heat loss capacity occur under both dry and humid heat stress conditions. <i>Journal of Applied Physiology</i> , 2014 , 117, 69-79	3.7	52
88	Older adults with type 2 diabetes store more heat during exercise. <i>Medicine and Science in Sports and Exercise</i> , 2013 , 45, 1906-14	1.2	52
87	At what level of heat load are age-related impairments in the ability to dissipate heat evident in females?. <i>PLoS ONE</i> , 2015 , 10, e0119079	3.7	38
86	Screening criteria for increased susceptibility to heat stress during work or leisure in hot environments in healthy individuals aged 31-70 years. <i>Temperature</i> , 2018 , 5, 86-99	5.2	35

85	Effects of aerobic training, resistance training, or both on psychological health in adolescents with obesity: The HEARTY randomized controlled trial. <i>Journal of Consulting and Clinical Psychology</i> , 2015 , 83, 1123-35	6.5	35
84	Exercise strategies for hypoglycemia prevention in individuals with type 1 diabetes. <i>Diabetes Spectrum</i> , 2015 , 28, 32-8	1.9	32
83	Genetic Predictors of Cardiovascular Mortality During Intensive Glycemic Control in Type 2 Diabetes: Findings From the ACCORD Clinical Trial. <i>Diabetes Care</i> , 2016 , 39, 1915-1924	14.6	32
82	Effects of aerobic training, resistance training, or both on cardiorespiratory and musculoskeletal fitness in adolescents with obesity: the HEARTY trial. <i>Applied Physiology, Nutrition and Metabolism</i> , 2016 , 41, 255-65	3	31
81	Screen time is associated with depressive symptomatology among obese adolescents: a HEARTY study. <i>European Journal of Pediatrics</i> , 2016 , 175, 909-19	4.1	31
80	Preventing Early Renal Loss in Diabetes (PERL) Study: A Randomized Double-Blinded Trial of Allopurinol-Rationale, Design, and Baseline Data. <i>Diabetes Care</i> , 2019 , 42, 1454-1463	14.6	28
79	Insulin Dose and Cardiovascular Mortality in the ACCORD Trial. <i>Diabetes Care</i> , 2015 , 38, 2000-8	14.6	26
78	Glucoregulation during and after intense exercise: effects of beta-adrenergic blockade in subjects with type 1 diabetes mellitus. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1999 , 84, 3961-71	5.6	24
77	Effects of aerobic training, resistance training, or both on brain-derived neurotrophic factor in adolescents with obesity: The hearty randomized controlled trial. <i>Physiology and Behavior</i> , 2018 , 191, 138-145	3.5	21
76	The recommended Threshold Limit Values for heat exposure fail to maintain body core temperature within safe limits in older working adults. <i>Journal of Occupational and Environmental Hygiene</i> , 2017 , 14, 703-711	2.9	20
75	Heart rate variability during high heat stress: a comparison between young and older adults with and without Type 2 diabetes. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016 , 311, R669-R675	3.2	20
74	Exercise Heat Stress in Patients With and Without Type 2 Diabetes. <i>JAMA - Journal of the American Medical Association</i> , 2019 , 322, 1409-1411	27.4	19
73	Peer telephone counseling for adults with type 2 diabetes mellitus: a case-study approach to inform the design, development, and evaluation of programs targeting physical activity. <i>The Diabetes Educator</i> , 2010 , 36, 717-29	2.5	19
72	Increasing age is a major risk factor for susceptibility to heat stress during physical activity. <i>Applied Physiology, Nutrition and Metabolism</i> , 2017 , 42, 1232-1235	3	18
71	Screen time is independently associated with health-related quality of life in overweight and obese adolescents. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2015 , 104, e448-54	3.1	18
70	Cost-effectiveness of exercise programs in type 2 diabetes. <i>International Journal of Technology Assessment in Health Care</i> , 2012 , 28, 228-34	1.8	16
69	Interindividual variability and individual responses to exercise training in adolescents with obesity. <i>Applied Physiology, Nutrition and Metabolism</i> , 2020 , 45, 45-54	3	16
68	Genetic Tools for Coronary Risk Assessment in Type 2 Diabetes: A Cohort Study From the ACCORD Clinical Trial. <i>Diabetes Care</i> , 2018 , 41, 2404-2413	14.6	16

67	Long-Term Effects of Intensive Glycemic and Blood Pressure Control and Fenofibrate Use on Kidney Outcomes. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2018 , 13, 1693-1702	6.9	15
66	The mediating role of energy intake on the relationship between screen time behaviour and body mass index in adolescents with obesity: The HEARTY study. <i>Appetite</i> , 2016 , 107, 437-444	4.5	13
65	No effect of ascorbate on cutaneous vasodilation and sweating in older men and those with type 2 diabetes exercising in the heat. <i>Physiological Reports</i> , 2017 , 5, e13238	2.6	12
64	Polymorphism Influences the Cardiovascular Benefit of Fenofibrate in Type 2 Diabetes: Findings From ACCORD-Lipid. <i>Diabetes</i> , 2020 , 69, 771-783	0.9	12
63	Cutaneous blood flow during intradermal NO administration in young and older adults: roles for calcium-activated potassium channels and cyclooxygenase?. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016 , 310, R1081-7	3.2	12
62	A Pilot Study of Physical Activity Education Delivery in Diabetes Education Centres in Ontario. <i>Canadian Journal of Diabetes</i> , 2008 , 32, 123-30	2.1	12
61	Effects of aerobic or resistance training or both on health-related quality of life in youth with obesity: the HEARTY Trial. <i>Applied Physiology, Nutrition and Metabolism</i> , 2017 , 42, 361-370	3	11
60	Increased left ventricular extracellular volume and enhanced twist function in type 1 diabetic individuals. <i>Journal of Applied Physiology</i> , 2017 , 123, 394-401	3.7	11
59	Cardiometabolic risk factors in type 2 diabetes with high fat and low muscle mass: At baseline and in response to exercise. <i>Obesity</i> , 2017 , 25, 881-891	8	10
58	Sex-Related Differences in Blood Glucose Responses to Resistance Exercise in Adults With Type 1 Diabetes: A Secondary Data Analysis. <i>Canadian Journal of Diabetes</i> , 2020 , 44, 267-273.e1	2.1	10
57	Modulation of GLP-1 Levels by a Genetic Variant That Regulates the Cardiovascular Effects of Intensive Glycemic Control in ACCORD. <i>Diabetes Care</i> , 2018 , 41, 348-355	14.6	10
56	Minimal effect of walking before dinner on glycemic responses in type 2 diabetes: outcomes from the multi-site E-PARaDiGM study. <i>Acta Diabetologica</i> , 2019 , 56, 755-765	3.9	9
55	Moving beyond cardio: the value of resistance training, balance training, and other forms of exercise in the management of diabetes. <i>Diabetes Spectrum</i> , 2015 , 28, 14-23	1.9	9
54	Interactive effects of age and hydration state on human thermoregulatory function during exercise in hot-dry conditions. <i>Acta Physiologica</i> , 2019 , 226, e13226	5.6	9
53	Fluid replacement modulates oxidative stress- but not nitric oxide-mediated cutaneous vasodilation and sweating during prolonged exercise in the heat. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017 , 313, R730-R739	3.2	8
52	Exercise training and reproductive outcomes in women with polycystic ovary syndrome: A pilot randomized controlled trial. <i>Clinical Endocrinology</i> , 2021 , 95, 332-343	3.4	8
51	Cutaneous vascular and sweating responses to intradermal administration of prostaglandin E1 and E2 in young and older adults: a role for nitric oxide?. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016 , 310, R1064-72	3.2	8
50	Does exercise training affect resting metabolic rate in adolescents with obesity?. <i>Applied Physiology, Nutrition and Metabolism</i> , 2017 , 42, 15-22	3	7

49	Type 2 diabetes specifically attenuates purinergic skin vasodilatation without affecting muscarinic and nicotinic skin vasodilatation and sweating. <i>Experimental Physiology</i> , 2018 , 103, 212-221	2.4	7
48	Resistance Exercise in Already-Active Diabetic Individuals (READI): study rationale, design and methods for a randomized controlled trial of resistance and aerobic exercise in type 1 diabetes. <i>Contemporary Clinical Trials</i> , 2015 , 41, 129-38	2.3	7
47	Systematic review and meta-analysis: SGLT2 inhibitors, blood pressure and cardiovascular outcomes. <i>IJC Heart and Vasculature</i> , 2021 , 33, 100725	2.4	7
46	Type 1 diabetes modulates cyclooxygenase- and nitric oxide-dependent mechanisms governing sweating but not cutaneous vasodilation during exercise in the heat. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016 , 311, R1076-R1084	3.2	7
45	Assessment of the MyWellness Key accelerometer in people with type 2 diabetes. <i>Applied Physiology, Nutrition and Metabolism</i> , 2015 , 40, 1193-8	3	6
44	Aging attenuates adenosine triphosphate-induced, but not muscarinic and nicotinic, cutaneous vasodilation in men. <i>Microcirculation</i> , 2018 , 25, e12462	2.9	6
43	Local arginase inhibition does not modulate cutaneous vasodilation or sweating in young and older men during exercise. <i>Journal of Applied Physiology</i> , 2019 , 126, 1129-1137	3.7	6
42	Impaired whole-body heat loss in type 1 diabetes during exercise in the heat: a cause for concern?. <i>Diabetologia</i> , 2019 , 62, 1087-1089	10.3	5
41	Remission of Type 2 Diabetes Following a Short-term Intervention With Insulin Glargine, Metformin, and Dapagliflozin. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020 , 105,	5.6	5
40	Evidence for age-related differences in heat acclimatisation responsiveness. <i>Experimental Physiology</i> , 2020 , 105, 1491-1499	2.4	5
39	Aerobic and resistance training do not influence plasma carnosinase content or activity in type 2 diabetes. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015 , 309, E663-9	6	5
38	Role of Resistance Exercise in Reducing Risk for Cardiometabolic Disease. <i>Current Cardiovascular Risk Reports</i> , 2010 , 4, 383-389	0.9	5
37	Heat Tolerance and Occupational Heat Exposure Limits in Older Men with and without Type 2 Diabetes or Hypertension. <i>Medicine and Science in Sports and Exercise</i> , 2021 , 53, 2196-2206	1.2	5
36	Oxidative stress does not influence local sweat rate during high-intensity exercise. <i>Experimental Physiology</i> , 2018 , 103, 172-178	2.4	5
35	Ageing attenuates muscarinic-mediated sweating differently in men and women with no effect on nicotinic-mediated sweating. <i>Experimental Dermatology</i> , 2019 , 28, 968-971	4	3
34	Cardiac autonomic modulation in type 1 diabetes during exercise-heat stress. <i>Acta Diabetologica</i> , 2020 , 57, 959-963	3.9	3
33	Type 2 diabetes does not exacerbate body heat storage in older adults during brief, extreme passive heat exposure. <i>Temperature</i> , 2020 , 7, 263-269	5.2	3
32	Effect of exercise-heat acclimation on cardiac autonomic modulation in type 2 diabetes: a pilot study. <i>Applied Physiology, Nutrition and Metabolism</i> , 2021 , 46, 284-287	3	3

31	Clinical Utility of Pre-Exercise Stress Testing in People With Diabetes. <i>Canadian Journal of Cardiology</i> , 2019 , 35, 185-192	3.8	3
30	Exercise-heat tolerance in middle-aged-to-older men with type 2 diabetes. <i>Acta Diabetologica</i> , 2021 , 58, 809-812	3.9	3
29	Superoxide and NADPH oxidase do not modulate skin blood flow in older exercising adults with and without type 2 diabetes. <i>Microvascular Research</i> , 2019 , 125, 103886	3.7	2
28	Blunted circulating irisin in adults with type 1 diabetes during aerobic exercise in a hot environment: a pilot study. <i>Applied Physiology, Nutrition and Metabolism</i> , 2020 , 45, 679-682	3	2
27	Ageing augments nicotinic and adenosine triphosphate-induced, but not muscarinic, cutaneous vasodilatation in women. <i>Experimental Physiology</i> , 2019 , 104, 1801-1807	2.4	2
26	Measurement of lipid profiles in the early postpartum period after hypertensive disorders of pregnancy. <i>Journal of Clinical Lipidology</i> , 2019 , 13, 1008-1015	4.9	2
25	My patient's diabetic kidney disease has progressed to stage 4; should I discontinue metformin?. <i>Canadian Journal of Diabetes</i> , 2014 , 38, 296-9	2.1	2
24	Diminished heart rate variability in type 2 diabetes is exacerbated during exercise-heat stress. <i>Acta Diabetologica</i> , 2020 , 57, 899-901	3.9	2
23	Patient decisional needs when considering treatment intensification for type 2 diabetes: A qualitative study in China. <i>Diabetes Research and Clinical Practice</i> , 2020 , 170, 108471	7.4	2
22	Glucose management for exercise using continuous glucose monitoring: should sex and prandial state be additional considerations?. <i>Diabetologia</i> , 2021 , 64, 932-934	10.3	2
21	Lifestyle Issues: Exercise	358-379	2
20	Effect of P2 receptor blockade on cutaneous vasodilation during rest and exercise in the heat in young men. <i>Applied Physiology, Nutrition and Metabolism</i> , 2018 , 43, 312-315	3	1
19	The OPTIMIZE trial: Rationale and design of a randomized controlled trial of motivational enhancement therapy to improve adherence to statin medication. <i>Contemporary Clinical Trials</i> , 2016 , 49, 47-56	2.3	1
18	Exercise in the heat induces similar elevations in serum irisin in young and older men despite lower resting irisin concentrations in older adults.. <i>Journal of Thermal Biology</i> , 2022 , 104, 103189	2.9	1
17	Impact of uncomplicated controlled hypertension on thermoregulation during exercise-heat stress. <i>Journal of Human Hypertension</i> , 2021 , 35, 880-883	2.6	1
16	Ageing augments β adrenergic cutaneous vasodilatation differently in men and women, with no effect on β adrenergic sweating. <i>Experimental Physiology</i> , 2020 , 105, 1720-1729	2.4	1
15	Type 2 diabetes impairs vascular responsiveness to nitric oxide, but not the venoarteriolar reflex or post-occlusive reactive hyperaemia in forearm skin. <i>Experimental Dermatology</i> , 2021 , 30, 1807-1813	4	1
14	Extensive pigmented abdominal plaque in a diabetic patient. <i>JAAD Case Reports</i> , 2021 , 7, 11-13	1.4	1

13	Use of Virtual Care for Glycemic Management in People With Types 1 and 2 Diabetes and Diabetes in Pregnancy: A Rapid Review. <i>Canadian Journal of Diabetes</i> , 2021 , 45, 677-688.e2	2.1	1
12	Risks of Dysglycemia Over the First 4 Years After a Hypertensive Disorder of Pregnancy. <i>Canadian Journal of Diabetes</i> , 2019 , 43, 587-593	2.1	0
11	Prevalence of and risk factors for excess weight gain in pregnancy: a cross-sectional study using survey data.. <i>CMAJ Open</i> , 2021 , 9, E1168-E1174	2.5	0
10	Comparative efficacy and safety of antihyperglycemic drug classes for patients with type 2 diabetes following failure with metformin monotherapy: a systematic review and network meta-analysis of randomized controlled trials.. <i>Diabetes/Metabolism Research and Reviews</i> , 2021 , e3515	7.5	0
9	Effects of short-term heat acclimation on whole-body heat exchange and local nitric oxide synthase- and cyclooxygenase-dependent heat loss responses in exercising older men. <i>Experimental Physiology</i> , 2021 , 106, 450-462	2.4	0
8	Long-Term Physical Activity Levels After the End of a Structured Exercise Intervention in Adults With Type 2 Diabetes and Prediabetes: A Systematic Review. <i>Canadian Journal of Diabetes</i> , 2020 , 44, 680-687.e2	2.1	0
7	Factors Influencing Inpatient Insulin Management of Adults With Type 1 and Type 2 Diabetes by Residents and Medical Students. <i>Canadian Journal of Diabetes</i> , 2021 , 45, 167-173.e1	2.1	0
6	Afternoon aerobic and resistance exercise have limited impact on 24-h CGM outcomes in adults with type 1 diabetes: A secondary analysis. <i>Diabetes Research and Clinical Practice</i> , 2021 , 177, 108874	7.4	0
5	Comparative Success of Recruitment Strategies for an Exercise Intervention Trial Among Women With Polycystic Ovary Syndrome: Observational Study. <i>Journal of Medical Internet Research</i> , 2021 , 23, e25208	7.6	0
4	Circulating Myostatin Decreases with Aerobic Exercise Training in Pre-Diabetic but not Diabetic Human Subjects. <i>FASEB Journal</i> , 2011 , 25, 863.11	0.9	
3	Performing Resistance Exercise Prior to Aerobic Exercise Results in Higher Growth Hormone Levels during Exercise in Physically Active Individuals with Well-Controlled Type 1 Diabetes. <i>FASEB Journal</i> , 2013 , 27, 712.29	0.9	
2	Prevention of cardiovascular events in diabetes. <i>Clinical Evidence</i> , 2006 , 623-45		
1	Albumin-to-creatinine ratio in a timed overnight urine sample was accurate for screening for microalbuminuria in diabetes mellitus. <i>ACP Journal Club</i> , 1999 , 131, 47		