

# Guillaume Walther

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

1,795  
citations

279487

23  
h-index

276539

41  
g-index

69  
all docs

69  
docs citations

69  
times ranked

3070  
citing authors

#	ARTICLE	IF	CITATIONS
1	Endothelial dysfunction, inflammation, and oxidative stress in obese children and adolescents: markers and effect of lifestyle intervention. <i>Obesity Reviews</i> , 2012, 13, 441-455.	3.1	127
2	Metabolic Syndrome Individuals With and Without Type 2 Diabetes Mellitus Present Generalized Vascular Dysfunction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 1022-1029.	1.1	102
3	Sports-Specific Features of Athlete's Heart and their Relation to Echocardiographic Parameters. <i>Herz</i> , 2006, 31, 531-543.	0.4	90
4	Acute Hyperglycemia Impairs Vascular Function in Healthy and Cardiometabolic Diseased Subjects. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 2060-2072.	1.1	83
5	Different modalities of exercise to reduce visceral fat mass and cardiovascular risk in metabolic syndrome: the RESOLVE* randomized trial. <i>International Journal of Cardiology</i> , 2013, 168, 3634-3642.	0.8	82
6	Subclinical Cardiac Abnormalities in Human Immunodeficiency Virus-Infected Men Receiving Antiretroviral Therapy. <i>American Journal of Cardiology</i> , 2008, 101, 1213-1217.	0.7	78
7	Vascular smooth muscle function in type 2 diabetes mellitus: a systematic review and meta-analysis. <i>Diabetologia</i> , 2013, 56, 2122-2133.	2.9	73
8	Effect of antioxidant vitamin supplementation on endothelial function in type 2 diabetes mellitus: a systematic review and meta-analysis of randomized controlled trials. <i>Obesity Reviews</i> , 2014, 15, 107-116.	3.1	67
9	Flow-mediated dilation and exercise-induced hyperaemia in highly trained athletes: comparison of the upper and lower limb vasculature. <i>Acta Physiologica</i> , 2008, 193, 139-150.	1.8	64
10	Phlebotomy eliminates the maximal cardiac output response to six weeks of exercise training. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 306, R752-R760.	0.9	63
11	Amniotic stem cells for cellular cardiomyoplasty: Promises and premises. <i>Catheterization and Cardiovascular Interventions</i> , 2009, 73, 917-924.	0.7	56
12	Myocardial deformation and twist mechanics in adults with metabolic syndrome: Impact of cumulative metabolic burden. <i>Obesity</i> , 2013, 21, E679-86.	1.5	51
13	Effects of Exercise Training on Arterial Function in Type 2 Diabetes Mellitus. <i>Sports Medicine</i> , 2013, 43, 1191-1199.	3.1	50
14	Flow-Mediated Dilation in Athletes. <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 2148-2158.	0.2	44
15	Effects of Sugar-Sweetened Beverage Consumption on Microvascular and Macrovascular Function in a Healthy Population. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 1250-1260.	1.1	41
16	In vitro and in vivo study of human amniotic fluid-derived stem cell differentiation into myogenic lineage. <i>Clinical and Experimental Medicine</i> , 2010, 10, 1-6.	1.9	39
17	Heart mechanics at high altitude: 6 days on the top of Europe. <i>European Heart Journal Cardiovascular Imaging</i> , 2017, 18, 1369-1377.	0.5	38
18	Exercise does not activate the $\beta_2$ adrenergic receptor-eNOS pathway, but reduces inducible NOS expression to protect the heart of obese diabetic mice. <i>Basic Research in Cardiology</i> , 2016, 111, 40.	2.5	36

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19	Vascular reactivity at rest and during exercise in middle-aged obese men: effects of short-term, low-intensity, exercise training. <i>International Journal of Obesity</i> , 2011, 35, 820-828.	1.6	34
20	Microvascular Dilator Function in Athletes. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 1485-1494.	0.2	34
21	Impact of a Lifestyle Program on Vascular Insulin Resistance in Metabolic Syndrome Subjects: The RESOLVE Study. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015, 100, 442-450.	1.8	32
22	Paradoxical dissociation between heart rate and heart rate variability following different modalities of exercise in individuals with metabolic syndrome: The RESOLVE study. <i>European Journal of Preventive Cardiology</i> , 2017, 24, 281-296.	0.8	30
23	Exercise training restores eNOS activation in the perivascular adipose tissue of obese rats: Impact on vascular function. <i>Nitric Oxide - Biology and Chemistry</i> , 2019, 86, 63-67.	1.2	30
24	Myocardial function at the early phase of traumatic brain injury: a prospective controlled study. <i>Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine</i> , 2016, 24, 129.	1.1	24
25	Long-term cost reduction of routine medications following a residential programme combining physical activity and nutrition in the treatment of type 2 diabetes: a prospective cohort study. <i>BMJ Open</i> , 2017, 7, e013763.	0.8	24
26	Dietary Fibres and the Management of Obesity and Metabolic Syndrome: The RESOLVE Study. <i>Nutrients</i> , 2020, 12, 2911.	1.7	24
27	Assessing cutaneous microvascular function with iontophoresis: Avoiding non-specific vasodilation. <i>Microvascular Research</i> , 2017, 113, 29-39.	1.1	23
28	Long-term effects of high-intensity resistance and endurance exercise on plasma leptin and ghrelin in overweight individuals: the RESOLVE Study. <i>Applied Physiology, Nutrition and Metabolism</i> , 2019, 44, 1172-1179.	0.9	22
29	Left Ventricular Myocardial Dyssynchrony Is Already Present in Nondiabetic Patients With Metabolic Syndrome. <i>Canadian Journal of Cardiology</i> , 2014, 30, 320-324.	0.8	21
30	Effects of lifestyle intervention on left ventricular regional myocardial function in metabolic syndrome patients from the RESOLVE randomized trial. <i>Metabolism: Clinical and Experimental</i> , 2016, 65, 1350-1360.	1.5	21
31	Artificial sweeteners impair endothelial vascular reactivity: Preliminary results in rodents. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2020, 30, 843-846.	1.1	21
32	Effects of a Lifestyle Program on Vascular Reactivity in Macro- and Microcirculation in Severely Obese Adolescents. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014, 99, 1019-1026.	1.8	20
33	Atherogenic subfractions of lipoproteins in the treatment of metabolic syndrome by physical activity and diet – the RESOLVE trial. <i>Lipids in Health and Disease</i> , 2014, 13, 112.	1.2	20
34	Multilevel Approach of a 1-Year Program of Dietary and Exercise Interventions on Bone Mineral Content and Density in Metabolic Syndrome – the RESOLVE Randomized Controlled Trial. <i>PLoS ONE</i> , 2015, 10, e0136491.	1.1	20
35	Time course of asymptomatic interstitial pulmonary oedema at high altitude. <i>Respiratory Physiology and Neurobiology</i> , 2013, 186, 16-21.	0.7	19
36	Femoral and Axillary Ultrasound Blood Flow during Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2006, 38, 1353-1361.	0.2	18

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37	The continuums of impairment in vascular reactivity across the spectrum of cardiometabolic health: A systematic review and network meta-analysis. <i>Obesity Reviews</i> , 2019, 20, 906-920.	3.1	16
38	Cardiac responses to swim bench exercise in age-group swimmers and non-athletic children. <i>Journal of Science and Medicine in Sport</i> , 2009, 12, 266-272.	0.6	15
39	Right ventricle free wall mechanics in metabolic syndrome without type-2 diabetes: effects of a 3-month lifestyle intervention program. <i>Cardiovascular Diabetology</i> , 2014, 13, 116.	2.7	15
40	Transient endothelial dysfunction induced by sugar-sweetened beverage consumption may be attenuated by a single bout of aerobic exercise. <i>Microvascular Research</i> , 2018, 115, 8-11.	1.1	13
41	Different modalities of exercise improve macrovascular function but not microvascular function in metabolic syndrome: The RESOLVE randomized trial. <i>International Journal of Cardiology</i> , 2018, 267, 165-170.	0.8	13
42	Sucralose and Cardiometabolic Health: Current Understanding from Receptors to Clinical Investigations. <i>Advances in Nutrition</i> , 2021, 12, 1500-1513.	2.9	13
43	Silent cardiac dysfunction and exercise intolerance in HIV+ men receiving combined antiretroviral therapies. <i>Aids</i> , 2008, 22, 2537-2540.	1.0	12
44	Leg arterial stiffness after weight loss in severely obese adolescents. <i>International Journal of Cardiology</i> , 2013, 168, 1676-1677.	0.8	12
45	Medex 2015: The key role of cardiac mechanics to maintain biventricular function at high altitude. <i>Experimental Physiology</i> , 2019, 104, 667-676.	0.9	11
46	Cerebral haemodynamics and oxygenation during whole-body exercise over 5 days at high altitude. <i>Experimental Physiology</i> , 2021, 106, 65-75.	0.9	9
47	Decreased microvascular myogenic response to insulin in severely obese adolescents. <i>Clinical Hemorheology and Microcirculation</i> , 2014, 57, 23-32.	0.9	8
48	Enhanced Conduit Artery Flow-Mediated Dilation in Elite Athletes. <i>Medicine and Science in Sports and Exercise</i> , 2013, 45, 1219.	0.2	6
49	Regional myocardial function abnormalities are associated with macro- and microcirculation dysfunction in the metabolic syndrome: the RESOLVE study. <i>Heart and Vessels</i> , 2018, 33, 688-694.	0.5	6
50	Maximal Fat Oxidation During Exercise Is Already Impaired in Pre-pubescent Children With Type 1 Diabetes Mellitus. <i>Frontiers in Physiology</i> , 2021, 12, 664211.	1.3	6
51	Is fasting blood glucose a reliable parameter to investigate the effect of non-nutritive sweeteners on glucose metabolism?. <i>European Journal of Clinical Nutrition</i> , 2019, 73, 331-332.	1.3	4
52	Divalent Amino-Acid-Based Amphiphilic Antioxidants: Synthesis, Self-Assembling Properties, and Biological Evaluation. <i>Bioconjugate Chemistry</i> , 2016, 27, 772-781.	1.8	3
53	The association between dynamical and averaging characterization of LDF skin blood flow: An integrated approach. <i>Microvascular Research</i> , 2013, 89, 159-160.	1.1	2
54	Inferior Vena Cava Diameter May Be Misleading in Detecting Central Venous Pressure Elevation Induced by Acute Pulmonary Hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014, 190, 233-235.	2.5	2

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55	Glutathione-dependent enzyme activities of peripheral blood mononuclear cells decrease during the winter season compared with the summer in normal-weight and severely obese adolescents. <i>Journal of Physiology and Biochemistry</i> , 2019, 75, 321-327.	1.3	2
56	Changes in the profile of circulating HDL subfractions in severe obese adolescents following a weight reduction program. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2021, 31, 1586-1593.	1.1	1
57	0229 : Effect of exercise training on crosstalk between vascular and perivascular adipose tissue: preliminary results. <i>Archives of Cardiovascular Diseases Supplements</i> , 2015, 7, 209.	0.0	0
58	Acute hyperglycemia impairs flow-mediated dilatation through an increase in vascular oxidative stress: winter is coming for excess sugar consumption. <i>Journal of Thoracic Disease</i> , 2016, 8, E1103-E1105.	0.6	0
59	0494 : Vascular protective effects of an amphiphilic nitrone against hyperglycemia-induced oxidative damages. <i>Archives of Cardiovascular Diseases Supplements</i> , 2016, 8, 218.	0.0	0
60	MEDEX 2015: Prophylactic Effects of Positive Expiratory Pressure in Trekkers at Very High Altitude. <i>Frontiers in Physiology</i> , 2021, 12, 710622.	1.3	0
61	MEDEX 2015: Positive expiratory pressure improves oxygenation and symptoms at high altitude. , 2017, , .		0