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List of Publications by Year
in descending order

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80 papers	3,627 citations	159585 30 h-index	133252 59 g-index
80 all docs	80 docs citations	80 times ranked	4856 citing authors

#	Article	IF	Citations
1	â€œVasocrineâ€•signalling from perivascular fat: a mechanism linking insulin resistance to vascular disease. Lancet, The, 2005, 365, 1817-1820.	13.7	478
2	Endothelial dysfunction and diabetes: roles of hyperglycemia, impaired insulin signaling and obesity. Cell and Tissue Research, 2009, 335, 165-189.	2.9	249
3	Microvascular Dysfunction. Hypertension, 2007, 50, 204-211.	2.7	205
4	Mechanistic Links Between Obesity, Diabetes, and Blood Pressure: Role of Perivascular Adipose Tissue. Physiological Reviews, 2019, 99, 1701-1763.	28.8	157
5	Effective Treatment of Edema and Endothelial Barrier Dysfunction With Imatinib. Circulation, 2012, 126, 2728-2738.	1.6	147
6	ESC Working Group on Coronary Pathophysiology and Microcirculation position paper on â€˜coronary microvascular dysfunction in cardiovascular diseaseâ€™. Cardiovascular Research, 2020, 116, 741-755.	3.8	147
7	Microvascular Dysfunction: A Potential Mechanism in the Pathogenesis of Obesityâ€associated Insulin Resistance and Hypertension. Microcirculation, 2012, 19, 5-18.	1.8	119
8	Perivascular Adipose Tissue Control of Insulin-Induced Vasoreactivity in Muscle Is Impaired in db/db Mice. Diabetes, 2013, 62, 590-598.	0.6	105
9	Physiological concentrations of insulin induce endothelin-mediated vasoconstriction during inhibition of NOS or PI3-kinase in skeletal muscle arterioles. Cardiovascular Research, 2002, 56, 464-471.	3.8	104
10	Vasoconstrictor effects of insulin in skeletal muscle arterioles are mediated by ERK1/2 activation in endothelium. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H2043-H2048.	3.2	102
11	Regulation of Vascular Function and Insulin Sensitivity by Adipose Tissue: Focus on Perivascular Adipose Tissue. Microcirculation, 2007, 14, 389-402.	1.8	102
12	Endothelial dysfunction in (pre)diabetes: Characteristics, causative mechanisms and pathogenic role in type 2 diabetes. Reviews in Endocrine and Metabolic Disorders, 2013, 14, 39-48.	5.7	102
13	Cardiovascular disease and COVID-19: a consensus paper from the ESC Working Group on Coronary Pathophysiology & Microcirculation, ESC Working Group on Thrombosis and the Association for Acute CardioVascular Care (ACVC), in collaboration with the European Heart Rhythm Association (EHRA). Cardiovascular Research, 2021, 117, 2705-2729.	3.8	95
14	Selective resistance to vasoactive effects of insulin in muscle resistance arteries of obese Zucker (fa/fa) rats. American Journal of Physiology - Endocrinology and Metabolism, 2007, 293, E1134-E1139.	3.5	80
15	Reactive Oxygen Speciesâ€“Induced Stimulation of 5â€²AMP-Activated Protein Kinase Mediates Sevoflurane-Induced Cardioprotection. Circulation, 2009, 120, S10-5.	1.6	79
16	Perivascular Adipose Tissue and Its Role in Type 2 Diabetes and Cardiovascular Disease. Current Diabetes Reports, 2011, 11, 211-217.	4.2	79
17	Birth Weight Relates to Salt Sensitivity of Blood Pressure in Healthy Adults. Hypertension, 2008, 51, 928-932.	2.7	78
18	Paracrine regulation of vascular tone, inflammation and insulin sensitivity by perivascular adipose tissue. Vascular Pharmacology, 2012, 56, 204-209.	2.1	77

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19	Physiological Concentrations of Insulin Induce Endothelin-Dependent Vasoconstriction of Skeletal Muscle Resistance Arteries in the Presence of Tumor Necrosis Factor-Î± Dependence on c-Jun N-Terminal Kinase. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, 274-280.	2.4	73
20	Insulinâ€Induced Microvascular Recruitment in Skin and Muscle are Related and Both are Associated with Wholeâ€Body Glucose Uptake. Microcirculation, 2012, 19, 494-500.	1.8	68
21	Activation of AMP-Activated Protein Kinase by 5-Aminoimidazole-4-Carboxamide-1-Î²- <scp>d</scp> -Ribofuranoside in the Muscle Microcirculation Increases Nitric Oxide Synthesis and Microvascular Perfusion. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 1137-1142.	2.4	62
22	Bariatric Surgery as a Novel Treatment for Type 2 Diabetes Mellitus. Archives of Surgery, 2011, 146, 744.	2.2	62
23	Protein Kinase C Î¸ Activation Induces Insulin-Mediated Constriction of Muscle Resistance Arteries. Diabetes, 2008, 57, 706-713.	0.6	60
24	Reduction in skin microvascular density and changes in vessel morphology in patients treated with sunitinib. Anti-Cancer Drugs, 2010, 21, 439-446.	1.4	58
25	Coronary microvascular dysfunction in a porcine model of early atherosclerosis and diabetes. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H85-H94.	3.2	50
26	Insulin-induced changes in skeletal muscle microvascular perfusion are dependent upon perivascular adipose tissue in women. Diabetologia, 2015, 58, 1907-1915.	6.3	44
27	Body Mass Index Is Associated With Microvascular Endothelial Dysfunction in Patients With Treated Metabolic Risk Factors and Suspected Coronary Artery Disease. Journal of the American Heart Association, 2017, 6, .	3.7	44
28	Empagliflozin restores chronic kidney diseaseâ€“induced impairment of endothelial regulation of cardiomyocyte relaxation and contraction. Kidney International, 2021, 99, 1088-1101.	5.2	37
29	Contrastâ€enhanced ultrasound for quantification of tissue perfusion in humans. Microcirculation, 2020, 27, e12588.	1.8	36
30	Cardioprotection Via Activation of Protein Kinase C-Â Depends on Modulation of the Reverse Mode of the Na+/Ca2+ Exchanger. Circulation, 2006, 114, I-226-I-232.	1.6	34
31	Renal hypoperfusion and impaired endothelium-dependent vasodilation in an animal model of VILI: the role of the peroxynitrite-PARP pathway. Critical Care, 2010, 14, R45.	5.8	28
32	Neovascularization of the atherosclerotic plaque. Current Opinion in Lipidology, 2015, 26, 405-411.	2.7	28
33	Glucocorticoid treatment impairs microvascular function in healthy men in association with its adverse effects on glucose metabolism and blood pressure: a randomised controlled trial. Diabetologia, 2013, 56, 2383-2391.	6.3	26
34	Globular adiponectin controls insulin-mediated vasoreactivity in muscle through AMPKÎ±2. Vascular Pharmacology, 2016, 78, 24-35.	2.1	26
35	FGF23 impairs peripheral microvascular function in renal failure. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 315, H1414-H1424.	3.2	25
36	Microvascular dysfunction: causative role in the association between hypertension, insulin resistance and the metabolic syndrome?. Essays in Biochemistry, 2006, 42, 163-176.	4.7	25

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37	Effects of hyperoxia on vascular tone in animal models: systematic review and meta-analysis. Critical Care, 2018, 22, 189.	5.8	24
38	Insulinâ€Induced Changes in Microvascular Vasomotion and Capillary Recruitment are Associated in Humans. Microcirculation, 2014, 21, 380-387.	1.8	23
39	Role of Insulin-Stimulated Adipose Tissue Perfusion in the Development of Whole-Body Insulin Resistance. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 411-418.	2.4	22
40	Mechanisms, therapeutic implications, and methodological challenges of gut microbiota and cardiovascular diseases: a position paper by the ESC Working Group on Coronary Pathophysiology and Microcirculation. Cardiovascular Research, 2022, 118, 3171-3182.	3.8	21
41	Depletion of Arg/Abl2 improves endothelial cell adhesion and prevents vascular leak during inflammation. Angiogenesis, 2021, 24, 677-693.	7.2	19
42	Relationships Between Type 2 Diabetes, Neuropathy, and Microvascular Dysfunction: Evidence From Patients With Cryptogenic Axonal Polyneuropathy. Diabetes Care, 2017, 40, 583-590.	8.6	16
43	High Fibroblast Growth Factor 23 concentrations in experimental renal failure impair calcium handling in cardiomyocytes. Physiological Reports, 2018, 6, e13591.	1.7	15
44	The Role of Systemic Microvascular Dysfunction in Heart Failure with Preserved Ejection Fraction. Biomolecules, 2022, 12, 278.	4.0	14
45	Sleep quality and duration are related to microvascular function: the Amsterdam Growth and Health Longitudinal Study. Journal of Sleep Research, 2015, 24, 140-147.	3.2	12
46	Four-and-a-half LIM domain protein 2 (FHL2) deficiency protects mice from diet-induced obesity and high FHL2 expression marks human obesity. Metabolism: Clinical and Experimental, 2021, 121, 154815.	3.4	12
47	Body mass index is related to microvascular vasomotion, this is partly explained by adiponectin. European Journal of Clinical Investigation, 2014, 44, 660-667.	3.4	11
48	The Vascular Contribution to Insulin Resistance: Promise, Proof, and Pitfalls. Diabetes, 2012, 61, 3063-3065.	0.6	10
49	Hyperoxia does not affect oxygen delivery in healthy volunteers while causing a decrease in sublingual perfusion. Microcirculation, 2018, 25, e12433.	1.8	10
50	Insulin Receptor Substrate 2 Controls Insulin-Mediated Vasoreactivity and Perivascular Adipose Tissue Function in Muscle. Frontiers in Physiology, 2018, 9, 245.	2.8	10
51	Myocardial contrast echocardiography in mice: technical and physiological aspects. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 314, H381-H391.	3.2	10
52	CrossTalk proposal: De novo capillary recruitment in healthy muscle is necessary. Journal of Physiology, 2014, 592, 5129-5131.	2.9	9
53	C1q/TNF-related protein 1: a novel link between visceral fat and athero-inflammation. European Heart Journal, 2016, 37, 1772-1774.	2.2	9
54	Perivascular Adipose Tissue Controls Insulin-Stimulated Perfusion, Mitochondrial Protein Expression, and Glucose Uptake in Muscle Through Adipomuscular Arterioles. Diabetes, 2020, 69, 603-613.	0.6	9

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55	Insulin Sensitivity Determines Effects of Insulin and Meal Ingestion on Systemic Vascular Resistance in Healthy Subjects. Microcirculation, 2016, 23, 62-68.	1.8	8
56	Iloprost infusion prevents the insulinâ€induced reduction in skeletal muscle microvascular blood volume but does not enhance peripheral glucose uptake in type 2 diabetic patients. Diabetes, Obesity and Metabolism, 2018, 20, 2523-2531.	4.4	8
57	The presence of cerebral white matter lesions and lower skin microvascular perfusion predicts lower cognitive performance in type 1 diabetes patients with retinopathy but not in healthy controlsâ€"A longitudinal study. Microcirculation, 2019, 26, e12530.	1.8	8
58	Metabolicâ€vascular coupling in skeletal muscle: A potential role for capillary pericytes?. Clinical and Experimental Pharmacology and Physiology, 2020, 47, 520-528.	1.9	7
59	The Relationship of Body Fatness and Body Fat Distribution with Microvascular Recruitment: The Amsterdam Growth and Health Longitudinal Study. Microcirculation, 2012, 19, 273-279.	1.8	6
60	JNK2 in myeloid cells impairs insulinâ€™s vasodilator effects in muscle during early obesity development through perivascular adipose tissue dysfunction. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 317, H364-H374.	3.2	6
61	Effects of a Hypercaloric and Hypocaloric Diet on Insulin-Induced Microvascular Recruitment, Glucose Uptake, and Lipolysis in Healthy Lean Men. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 1695-1704.	2.4	6
62	Perivascular fat in human muscle. Lancet Diabetes and Endocrinology,the, 2016, 4, 958.	11.4	5
63	Glucose-mediated insulin secretion is improved in FHL2-deficient mice and elevated FHL2 expression in humans is associated with type 2 diabetes. Diabetologia, 2022, 65, 1721-1733.	6.3	5
64	Combined Intravital Microscopy and Contrast-enhanced Ultrasonography of the Mouse Hindlimb to Study Insulin-induced Vasodilation and Muscle Perfusion. Journal of Visualized Experiments, 2017, , .	0.3	4
65	Perfusion controls muscle glucose uptake by altering the rate of glucose dispersion in vivo. American Journal of Physiology - Endocrinology and Metabolism, 2020, 318, E311-E312.	3.5	4
66	Response to Letter Regarding Article, â€œReactive Oxygen Speciesâ€"Induced Stimulation of 5â€²AMP-Activated Protein Kinase Mediates Sevoflurane-Induced Cardioprotectionâ€. Circulation, 2010, 121, .	1.6	3
67	The effect of perioperative insulin treatment on cardiodepression in mild adiposity in mice. Cardiovascular Diabetology, 2016, 15, 135.	6.8	3
68	Phenotyping the Microcirculation With Contrast-Enhanced Ultrasound. Hypertension, 2012, 60, e38; author reply e39.	2.7	2
69	Effects of imatinib on vascular insulin sensitivity and free fatty acid transport in early weight gain. PLoS ONE, 2021, 16, e0250442.	2.5	2
70	Does microvascular dysfunction link obesity with insulin resistance and hypertension?. Expert Review of Endocrinology and Metabolism, 2006, 1, 181-187.	2.4	1
71	Rebuttal from Eugene J. Barrett, Michelle A. Keske, Stephen Rattigan and Etto C. Eringa. Journal of Physiology, 2014, 592, 5137-5138.	2.9	1
72	Improving insights into the heterogeneous HFpEF syndrome through microvascular research. Journal of Molecular and Cellular Cardiology, 2022, 167, 106-108.	1.9	1

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73	PS3 - 16. Insulin induced vasoreactivity is dependent on perivascular adipose tissue as well as resistance artery properties after a two-week high fat diet in mice. Nederlands Tijdschrift Voor Diabetologie, 2011, 9, 101-101.	0.0	0
74	PS14 - 74. Microvascular insulin sensitivity in human skeletal muscle and skin are related and both are associated with metabolic insulin sensitivity. Nederlands Tijdschrift Voor Diabetologie, 2011, 9, 140-141.	0.0	0
75	To PRESERVE and protect. Journal of Hypertension, 2011, 29, 1859-1860.	0.5	0
76	PS9 - 6. Cardiac microvascular perfusion defects precede insulin resistance in mildly obese mice. Nederlands Tijdschrift Voor Diabetologie, 2013, 11, 169-170.	0.0	0
77	PS9 - 9. Human coronary artery disease is characterized by defects in coronary insulin signaling. Nederlands Tijdschrift Voor Diabetologie, 2013, 11, 183-183.	0.0	0
78	MP345CHRONIC KIDNEY DISEASE DISTURBS CARDIAC CALCIUM HANDLING DUE TO HIGH FGF23 LEVELSFGF23 LEVELS. Nephrology Dialysis Transplantation, 2016, 31, i454-i454.	0.7	0
79	MP349ENDOTHELIAL DYSFUNCTION IN EXPERIMENTAL CHRONIC KIDNEY DISEASE IS CAUSED BY FGF23. Nephrology Dialysis Transplantation, 2016, 31, i456-i456.	0.7	0
80	Increased Intra-individual Perivascular Adipose Tissue Density and Increased Inflammatory RNA Expression of Perivascular Adipose Tissue in Patients with Abdominal Aortic Aneurysms. European Journal of Vascular and Endovascular Surgery, 2019, 58, e349-e350.	1.5	0