

Nicholas Cauwenberghs

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

1,127
citations

394421

19
h-index

477307

29
g-index

94
all docs

94
docs citations

94
times ranked

2110
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlates of Peripheral Blood Mitochondrial DNA Content in a General Population. <i>American Journal of Epidemiology</i> , 2016, 183, kww175.	3.4	91
2	Additive Prognostic Value of Left Ventricular Systolic Dysfunction in a Population-Based Cohort. <i>Circulation: Cardiovascular Imaging</i> , 2016, 9, .	2.6	73
3	Air pollution exposure is linked with methylation of immunoregulatory genes, altered immune cell profiles, and increased blood pressure in children. <i>Scientific Reports</i> , 2021, 11, 4067.	3.3	46
4	Longitudinal Changes in Left Ventricular Diastolic Function in a General Population. <i>Circulation: Cardiovascular Imaging</i> , 2015, 8, .	2.6	44
5	Doppler Indexes of Left Ventricular Systolic and Diastolic Flow and Central Pulse Pressure in Relation to Renal Resistive Index. <i>American Journal of Hypertension</i> , 2015, 28, 535-545.	2.0	44
6	Left Ventricular Structure and Function in Relation to Environmental Exposure to Lead and Cadmium. <i>Journal of the American Heart Association</i> , 2017, 6, .	3.7	42
7	Workload-indexed blood pressure response is superior to peak systolic blood pressure in predicting all-cause mortality. <i>European Journal of Preventive Cardiology</i> , 2020, 27, 978-987.	1.8	39
8	Longitudinal Changes in LV Structure and Diastolic Function in Relation to Arterial Properties in General Population. <i>JACC: Cardiovascular Imaging</i> , 2017, 10, 1307-1316.	5.3	35
9	Left ventricular function in relation to chronic residential air pollution in a general population. <i>European Journal of Preventive Cardiology</i> , 2017, 24, 1416-1428.	1.8	35
10	Relation of Insulin Resistance to Longitudinal Changes in Left Ventricular Structure and Function in a General Population. <i>Journal of the American Heart Association</i> , 2018, 7, .	3.7	35
11	Determinants and Prognostic Significance of the Renal Resistive Index. <i>Pulse</i> , 2015, 3, 172-178.	1.9	33
12	Autoantibody profiling on a plasmonic nano-gold chip for the early detection of hypertensive heart disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7089-7094.	7.1	30
13	Value of Neutrophil to Lymphocyte Ratio and Its Trajectory in Patients Hospitalized With Acute Heart Failure and Preserved Ejection Fraction. <i>American Journal of Cardiology</i> , 2020, 125, 229-235.	1.6	29
14	Doppler indexes of left ventricular systolic and diastolic function in relation to the arterial stiffness in a general population. <i>Journal of Hypertension</i> , 2016, 34, 762-771.	0.5	28
15	Does Extremely Low Birth Weight Predispose to Low-Renin Hypertension?. <i>Hypertension</i> , 2017, 69, 443-449.	2.7	27
16	Peripheral blood mitochondrial DNA content in relation to circulating metabolites and inflammatory markers: A population study. <i>PLoS ONE</i> , 2017, 12, e0181036.	2.5	24
17	Immune biomarkers link air pollution exposure to blood pressure in adolescents. <i>Environmental Health</i> , 2020, 19, 108.	4.0	23
18	Subclinical left atrial dysfunction profiles for prediction of cardiac outcome in the general population. <i>Journal of Hypertension</i> , 2020, 38, 2465-2474.	0.5	22

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19	Ambulatory blood pressure and long-term risk for atrial fibrillation. <i>Heart</i> , 2018, 104, 1263-1270.	2.9	21
20	Conventional and Ambulatory Blood Pressure as Predictors of Retinal Arteriolar Narrowing. <i>Hypertension</i> , 2016, 68, 511-520.	2.7	20
21	Epidemiologic observations guiding clinical application of a urinary peptidomic marker of diastolic left ventricular dysfunction. <i>Journal of the American Society of Hypertension</i> , 2018, 12, 438-447.e4.	2.3	20
22	Circulating Biomarkers to Identify Responders in Cardiac Cell therapy. <i>Scientific Reports</i> , 2017, 7, 4419.	3.3	18
23	Inactive matrix Gla protein is a novel circulating biomarker predicting retinal arteriolar narrowing in humans. <i>Scientific Reports</i> , 2018, 8, 15088.	3.3	17
24	Cytokines profile in hypertensive patients with left ventricular remodeling and dysfunction. <i>Journal of the American Society of Hypertension</i> , 2015, 9, 975-984.e3.	2.3	16
25	Temporal changes in left ventricular longitudinal strain in general population: Clinical correlates and impact on cardiac remodeling. <i>Echocardiography</i> , 2019, 36, 458-468.	0.9	16
26	Retinal microvascular diameter, a hypertension-related trait, in ECG-gated vs. non-gated images analyzed by IVAN and SIVA. <i>Hypertension Research</i> , 2016, 39, 886-892.	2.7	15
27	Flow-mediated slowing of brachial-radial pulse wave velocity: Methodological aspects and clinical determinants. <i>Artery Research</i> , 2018, 21, 29.	0.6	15
28	The risk of nephrolithiasis is causally related to inactive matrix Gla protein, a marker of vitamin K status: a Mendelian randomization study in a Flemish population. <i>Nephrology Dialysis Transplantation</i> , 2018, 33, 514-522.	0.7	15
29	Applying machine learning to detect early stages of cardiac remodelling and dysfunction. <i>European Heart Journal Cardiovascular Imaging</i> , 2021, 22, 1208-1217.	1.2	15
30	Renal glomerular dysfunction in relation to retinal arteriolar narrowing and high pulse pressure in seniors. <i>Hypertension Research</i> , 2016, 39, 138-143.	2.7	14
31	Central Hemodynamics in Relation to Circulating Desphospho- α -Carboxylated Matrix Gla Protein: A Population Study. <i>Journal of the American Heart Association</i> , 2019, 8, e011960.	3.7	14
32	Impact of age, sex and heart rate variability on the acute cardiovascular response to isometric handgrip exercise. <i>Journal of Human Hypertension</i> , 2021, 35, 55-64.	2.2	14
33	PEAR1 is not a major susceptibility gene for cardiovascular disease in a Flemish population. <i>BMC Medical Genetics</i> , 2017, 18, 45.	2.1	13
34	The 2013 ACC/AHA risk score and subclinical cardiac remodeling and dysfunction: Complementary in cardiovascular disease prediction. <i>International Journal of Cardiology</i> , 2019, 297, 67-74.	1.7	13
35	Coronary risk in relation to genetic variation in MEOX2 and TCF15 in a Flemish population. <i>BMC Genetics</i> , 2015, 16, 116.	2.7	12
36	Incremental value of diastolic stress test in identifying subclinical heart failure in patients with diabetes mellitus. <i>European Heart Journal Cardiovascular Imaging</i> , 2020, 21, 876-884.	1.2	12

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37	Temporal shift and predictive performance of machine learning for heart transplant outcomes. <i>Journal of Heart and Lung Transplantation</i> , 2022, 41, 928-936.	0.6	12
38	Evaluation of diastole by echocardiography for detecting early cardiac dysfunction: an outcome study. <i>ESC Heart Failure</i> , 2022, 9, 1775-1783.	3.1	12
39	Association of left ventricular structure and function with peripheral blood mitochondrial DNA content in a general population. <i>International Journal of Cardiology</i> , 2016, 214, 180-188.	1.7	10
40	Ibuprofen exposure in early neonatal life does not affect renal function in young adolescence. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2018, 103, F107-F111.	2.8	10
41	Correlation Between Mitochondrial DNA Content Measured in Myocardium and Peripheral Blood of Patients with Non-Ischemic Heart Failure. <i>Genetic Testing and Molecular Biomarkers</i> , 2017, 21, 736-741.	0.7	9
42	Area of the pressure-strain loop during ejection as non-invasive index of left ventricular performance: a population study. <i>Cardiovascular Ultrasound</i> , 2019, 17, 15.	1.6	8
43	Proteomic profiling for detection of early-stage heart failure in the community. <i>ESC Heart Failure</i> , 2021, 8, 2928-2939.	3.1	8
44	Peak exercise SBP and future risk of cardiovascular disease and mortality. <i>Journal of Hypertension</i> , 2022, 40, 300-309.	0.5	8
45	Determinants of circulating angiotensin-converting enzyme 2 protein levels in the general population. <i>European Journal of Internal Medicine</i> , 2021, 84, 104-105.	2.2	7
46	Sex-specific differences in cardiac maladaptation to hypertension and arterial stiffening. <i>Kardiologia Polska</i> , 2018, 76, 1303-1311.	0.6	7
47	Subclinical Heart Dysfunction in Relation to Metabolic and Inflammatory Markers: A Community-Based Study. <i>American Journal of Hypertension</i> , 2021, 34, 46-55.	2.0	6
48	Conventional and Ambulatory Blood Pressure as Predictors of Diastolic Left Ventricular Function in a Flemish Population. <i>Journal of the American Heart Association</i> , 2018, 7, .	3.7	5
49	Circulating Biomarkers Predicting Longitudinal Changes in Left Ventricular Structure and Function in a General Population. <i>Journal of the American Heart Association</i> , 2019, 8, e010430.	3.7	5
50	Retinal and Renal Microvasculature in Relation to Central Hemodynamics in 11-Year-Old Children Born Preterm or At Term. <i>Journal of the American Heart Association</i> , 2020, 9, e014305.	3.7	5
51	1A.04. <i>Journal of Hypertension</i> , 2015, 33, e2.	0.5	4
52	Doppler indexes of left ventricular systolic and diastolic function in relation to haemodynamic load components in a general population. <i>Journal of Hypertension</i> , 2018, 36, 867-875.	0.5	4
53	Peripheral Oxygen Extraction and Exercise Limitation in Asymptomatic Patients with Diabetes Mellitus. <i>American Journal of Cardiology</i> , 2021, 149, 132-139.	1.6	4
54	Principal Component Analysis for the Classification of Cardiac Motion Abnormalities Based on Echocardiographic Strain and Strain Rate Imaging. <i>Lecture Notes in Computer Science</i> , 2015, , 83-90.	1.3	3

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55	Incremental Value of Aortomitral Continuity Calcification for Risk Assessment after Transcatheter Aortic Valve Replacement. <i>Radiology: Cardiothoracic Imaging</i> , 2019, 1, e190067.	2.5	3
56	Echocardiographic phenogrouping by machine learning for risk stratification in the general population. <i>European Heart Journal Digital Health</i> , 2021, 2, 390-400.	1.7	3
57	Temporal changes in soluble angiotensin-converting enzyme 2 associated with metabolic health, body composition, and proteome dynamics during a weight loss diet intervention: a randomized trial with implications for the COVID-19 pandemic. <i>American Journal of Clinical Nutrition</i> , 2021, 114, 1655-1665.	4.7	3
58	Association of left ventricular diastolic function with coronary artery calcium score: A Project Baseline Health Study. <i>Journal of Cardiovascular Computed Tomography</i> , 2022, 16, 498-508.	1.3	3
59	Association of Subclinical Heart Maladaptation With the Pooled Cohort Equations to Prevent Heart Failure Risk Score for Incident Heart Failure. <i>JAMA Cardiology</i> , 2021, 6, 214.	6.1	2
60	Insulin Growth Factor Phenotypes in Heart Failure With Preserved Ejection Fraction, an INSPIRE Registry and CATHGEN Study. <i>Journal of Cardiac Failure</i> , 2022, 28, 935-946.	1.7	2
61	Notice of Removal: Machine learning to understand anthropomorphic modulators of spatiotemporal myocardial mechanics. , 2017, , .		1
62	A0329 Left ventricular structure and function in relation to peripheral and central blood pressure in a general population. <i>Journal of Hypertension</i> , 2018, 36, e97.	0.5	1
63	Subclinical Heart Remodeling and Dysfunction in Relation to Peripheral Endothelial Dysfunction: a general population study. <i>Microcirculation</i> , 2021, 28, e12731.	1.8	1
64	Reply to "Pulse pressure amplification is one of the important factors evaluating peripheral blood pressure during exercise". <i>Journal of Hypertension</i> , 2022, 40, 1245-1246.	0.5	1
65	5.4 MATRIX GLA PROTEIN IN RELATION TO LEFT VENTRICULAR DIASTOLIC FUNCTION. <i>Artery Research</i> , 2015, 12, 46.	0.6	0
66	5B.02. <i>Journal of Hypertension</i> , 2015, 33, e66.	0.5	0
67	PP.22.08. <i>Journal of Hypertension</i> , 2015, 33, e332.	0.5	0
68	P4.2 CORONARY RISK IN RELATION TO GENETIC VARIATION IN MEOX2 AND TCF15 IN A FLEMISH POPULATION. <i>Artery Research</i> , 2015, 12, 15.	0.6	0
69	[OP.1A.10] CONVENTIONAL AND AMBULATORY BLOOD PRESSURE AS PREDICTORS OF RETINAL ARTERIOLAR NARROWING. <i>Journal of Hypertension</i> , 2016, 34, e3-e4.	0.5	0
70	[OP.4B.04] LONGITUDINAL CHANGES IN LEFT VENTRICULAR STRUCTURE AND DIASTOLIC FUNCTION IN RELATION TO ARTERIAL PROPERTIES IN A GENERAL POPULATION. <i>Journal of Hypertension</i> , 2016, 34, e44-e45.	0.5	0
71	[PP.07.05] PLATELET ENDOTHELIAL AGGREGATION RECEPTOR 1 IS NOT A SUSCEPTIBILITY GENE FOR CARDIOVASCULAR DISEASE IN THE GENERAL POPULATION. <i>Journal of Hypertension</i> , 2016, 34, e154.	0.5	0
72	[OP.7B.04] ADDITIVE PROGNOSTIC VALUE OF LEFT VENTRICULAR SYSTOLIC DYSFUNCTION IN A POPULATION-BASED COHORT. <i>Journal of Hypertension</i> , 2017, 35, e68.	0.5	0

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73	[PP.14.13] THE NATURAL HISTORY OF LEFT VENTRICULAR LONGITUDINAL STRAIN IN A GENERAL POPULATION. Journal of Hypertension, 2017, 35, e201.	0.5	0
74	[PP.24.10] LEFT VENTRICULAR DIASTOLIC FUNCTION IN RELATION TO HEMODYNAMIC LOAD COMPONENTS IN A GENERAL POPULATION. Journal of Hypertension, 2017, 35, e290-e291.	0.5	0
75	P39 LEFT VENTRICULAR STRUCTURE AND FUNCTION IN RELATION TO PERIPHERAL AND CENTRAL BLOOD PRESSURE IN A GENERAL POPULATION. Artery Research, 2017, 20, 66.	0.6	0
76	P131 DETERMINANTS OF A NEW, NON-INVASIVE INDEX OF VENTRICULAR-ARTERIAL COUPLING AND MYOCARDIAL PERFORMANCE IN A GENERAL POPULATION SAMPLE. Artery Research, 2017, 20, 82.	0.6	0
77	P146 METHODOLOGICAL ASPECTS AND DETERMINANTS OF HYPEREMIA-MEDIATED SLOWING IN PULSE WAVE VELOCITY: A GENERAL POPULATION STUDY. Artery Research, 2017, 20, 98.	0.6	0
78	P4928 Doppler indexes of left ventricular diastolic function in relation to hemodynamic load components in a general population. European Heart Journal, 2017, 38, .	2.2	0
79	A0356 Conventional and ambulatory blood pressure as predictors of diastolic left ventricular function in a Flemish population. Journal of Hypertension, 2018, 36, e264.	0.5	0
80	THE RELATION BETWEEN INSULIN RESISTANCE AND LONGITUDINAL CHANGES IN LEFT VENTRICULAR STRUCTURE AND FUNCTION IN A GENERAL POPULATION. Journal of Hypertension, 2018, 36, e230.	0.5	0
81	A0188 Epidemiologic observations informing clinical application of a urinary peptidomic marker of diastolic left ventricular dysfunction. Journal of Hypertension, 2018, 36, e2-e3.	0.5	0
82	Hemodynamic Mechanisms. Updates in Hypertension and Cardiovascular Protection, 2019, , 59-70.	0.1	0
83	IMPACT OF DIFFERENT GRADING APPROACHES ON THE PREVALENCE AND PROGNOSTIC SIGNIFICANCE OF LEFT VENTRICULAR DIASTOLIC DYSFUNCTION IN THE GENERAL POPULATION. Journal of Hypertension, 2019, 37, e4.	0.5	0
84	CIRCULATING BIOMARKERS PREDICTING LONGITUDINAL CHANGES IN LEFT VENTRICULAR STRUCTURE AND FUNCTION IN A GENERAL POPULATION. Journal of Hypertension, 2019, 37, e7.	0.5	0
85	SERUM URIC ACID AND LONGITUDINAL CHANGES IN LEFT VENTRICULAR STRUCTURE AND FUNCTION IN THE GENERAL POPULATION. Journal of Hypertension, 2019, 37, e118.	0.5	0
86	Pollution-Associated Exposure Signature in Teenagers. Journal of Allergy and Clinical Immunology, 2020, 145, AB82.	2.9	0
87	Diastolic left ventricular function in relation to the retinal microvascular fractal dimension in a Flemish population. Hypertension Research, 2021, 44, 446-453.	2.7	0
88	Heart Failure and Hypertension. , 2016, , 437-454.		0
89	Echocardiographic phenogrouping by machine learning for risk stratification in the general population. European Heart Journal, 2020, 41, .	2.2	0
90	Subclinical left atrial dysfunction profiles for prediction of cardiac outcome in the general population. European Heart Journal, 2020, 41, .	2.2	0

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91	Left atrial reservoir strain in relation to metabolic and inflammatory biomarkers: a community-based study. <i>European Heart Journal</i> , 2020, 41, .	2.2	0
92	Reply to "Blood pressure during moderate or maximal exercise: hardly two sides of the same coin". <i>Journal of Hypertension</i> , 2022, 40, 1244-1245.	0.5	0