

Philippe van de Borne

List of Publications by Year in descending order

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122
papers

4,700
citations

87888

38
h-index

106344

65
g-index

126
all docs

126
docs citations

126
times ranked

5626
citing authors

#	ARTICLE	IF	CITATIONS
1	Increased Sympathetic Nerve Activity in Pulmonary Artery Hypertension. <i>Circulation</i> , 2004, 110, 1308-1312.	1.6	367
2	Absence of Low-Frequency Variability of Sympathetic Nerve Activity in Severe Heart Failure. <i>Circulation</i> , 1997, 95, 1449-1454.	1.6	308
3	Effects of empagliflozin on risk for cardiovascular death and heart failure hospitalization across the spectrum of heart failure risk in the EMPA-REG OUTCOME® trial. <i>European Heart Journal</i> , 2018, 39, 363-370.	2.2	199
4	Prognostic Significance of Sympathetic Nervous System Activation in Pulmonary Arterial Hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2010, 181, 1269-1275.	5.6	182
5	Effect of Cheyne-Stokes Respiration on Muscle Sympathetic Nerve Activity in Severe Congestive Heart Failure Secondary to Ischemic or Idiopathic Dilated Cardiomyopathy. <i>American Journal of Cardiology</i> , 1998, 81, 432-436.	1.6	153
6	Evidence for a Central Origin of the Low-Frequency Oscillation in RR-Interval Variability. <i>Circulation</i> , 1998, 98, 556-561.	1.6	145
7	Differential Effects of E-Cigarette on Microvascular Endothelial Function, Arterial Stiffness and Oxidative Stress: A Randomized Crossover Trial. <i>Scientific Reports</i> , 2018, 8, 10378.	3.3	129
8	Dysautonomia and its underlying mechanisms in the hypermobility type of Ehlers-Danlos syndrome. <i>Seminars in Arthritis and Rheumatism</i> , 2014, 44, 93-100.	3.4	116
9	Causal relationships between heart period and systolic arterial pressure during graded head-up tilt. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 300, R378-R386.	1.8	103
10	Fourth generation e-cigarette vaping induces transient lung inflammation and gas exchange disturbances: results from two randomized clinical trials. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2019, 316, L705-L719.	2.9	101
11	Reduction of left ventricular diameter and mass after surgical arteriovenous fistula closure in renal transplant recipients. <i>Transplantation</i> , 2002, 74, 73-79.	1.0	100
12	Acute Exposure to Diesel Exhaust Impairs Nitric Oxide-Mediated Endothelial Vasomotor Function by Increasing Endothelial Oxidative Stress. <i>Hypertension</i> , 2013, 62, 352-358.	2.7	91
13	Validity of pulse pressure and augmentation index as surrogate measures of arterial stiffness during beta-adrenergic stimulation. <i>Journal of Hypertension</i> , 2004, 22, 511-517.	0.5	89
14	Sympathetic Neural Outflow and Chemoreflex Sensitivity Are Related to Spontaneous Breathing Rate in Normal Men. <i>Hypertension</i> , 2006, 47, 51-55.	2.7	89
15	Acute Effects of Passive Smoking on Peripheral Vascular Function. <i>Hypertension</i> , 2008, 51, 1506-1511.	2.7	88
16	Effects of Aging and Cardiac Denervation on Heart Rate Variability During Sleep. <i>Circulation</i> , 2001, 103, 84-88.	1.6	86
17	Regression of Left Ventricular Hypertrophy After Arteriovenous Fistula Closure in Renal Transplant Recipients: A Long-Term Follow-Up. <i>American Journal of Transplantation</i> , 2004, 4, 2038-2044.	4.7	81
18	The Effect of Different Intensity Modalities of Resistance Training on Beat-to-Beat Blood Pressure in Cardiac Patients. <i>European Journal of Cardiovascular Prevention and Rehabilitation</i> , 2005, 12, 12-17.	2.8	75

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19	Atrial Septostomy Decreases Sympathetic Overactivity in Pulmonary Arterial Hypertension. Chest, 2007, 131, 1831-1837.	0.8	75
20	Power spectral analysis of cardiovascular variability in critically ill neurosurgical patients. Critical Care Medicine, 2000, 28, 2578-2583.	0.9	74
21	Acute Cardiovascular and Sympathetic Effects of Nicotine Replacement Therapy. Hypertension, 2006, 47, 1162-1167.	2.7	73
22	Dopamine Depresses Minute Ventilation in Patients With Heart Failure. Circulation, 1998, 98, 126-131.	1.6	70
23	Hyperventilation alters arterial baroreflex control of heart rate and muscle sympathetic nerve activity. American Journal of Physiology - Heart and Circulatory Physiology, 2000, 279, H536-H541.	3.2	69
24	NEW INSIGHTS INTO THE SYMPATHETIC, ENDOTHELIAL AND CORONARY EFFECTS OF NICOTINE. Clinical and Experimental Pharmacology and Physiology, 2008, 35, 458-463.	1.9	59
25	Relationship Between Repeated Measures of Hemodynamics, Muscle Sympathetic Nerve Activity, and Their Spectral Oscillations. Circulation, 1997, 96, 4326-4332.	1.6	59
26	Interdependency between heart rate variability and sleep EEG: linear/non-linear?. Clinical Neurophysiology, 2004, 115, 2031-2040.	1.5	56
27	Environmental determinants of blood pressure, arterial stiffness, and central hemodynamics. Journal of Hypertension, 2010, 28, 903-909.	0.5	53
28	Uric acid and hypertension. Journal of Hypertension, 2019, 37, 878-883.	0.5	53
29	Importance of ventilation in modulating interaction between sympathetic drive and cardiovascular variability. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H722-H729.	3.2	51
30	Increased burden and severity of metabolic syndrome and arterial stiffness in treatment-naïve HIV+ patients from Cameroon. Vascular Health and Risk Management, 2013, 9, 509.	2.3	50
31	Sympathetic control after cardiac resynchronization therapy: responders versus nonresponders. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H2647-H2652.	3.2	48
32	Effects of Hunter-Gatherer Subsistence Mode on Arterial Distensibility in Cameroonian Pygmies. Hypertension, 2012, 60, 123-128.	2.7	47
33	Tonic Chemoreflex Activation Does Not Contribute to Elevated Muscle Sympathetic Nerve Activity in Heart Failure. Circulation, 1996, 94, 1325-1328.	1.6	45
34	Contrasting effects of phentolamine and nitroprusside on neural and cardiovascular variability. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H559-H565.	3.2	44
35	Ethnic differences in arterial stiffness and wave reflections after cigarette smoking. Journal of Hypertension, 2006, 24, 683-689.	0.5	44
36	Chemoreflex and metaboreflex control during static hypoxic exercise. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 288, H1724-H1729.	3.2	41

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37	Twenty-four-Hour Blood Pressure and Heart Rate Patterns in Chronic Hemodialysis Patients. American Journal of Kidney Diseases, 1993, 22, 419-425.	1.9	40
38	Respiratory-related heart rate variability in progressive experimental heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 289, H1729-H1735.	3.2	40
39	Chemoreflex and Metaboreflex Responses to Static Hypoxic Exercise in Aging Humans. Medicine and Science in Sports and Exercise, 2006, 38, 305-312.	0.4	39
40	Reappearance of a normal circadian rhythm of blood pressure after cardiac transplantation. American Journal of Cardiology, 1992, 69, 794-801.	1.6	38
41	ACUTE EFFECTS OF NICOTINE ON ARTERIAL STIFFNESS AND WAVE REFLECTION IN HEALTHY YOUNG NON-SMOKERS. Clinical and Experimental Pharmacology and Physiology, 2009, 36, 784-789.	1.9	38
42	Increased Peripheral Chemoreceptors Sensitivity and Exercise Ventilation in Heart Transplant Recipients. Circulation, 2006, 113, 252-257.	1.6	35
43	Sympathetic Rhythmicity in Cardiac Transplant Recipients. Circulation, 1999, 99, 1606-1610.	1.6	33
44	Arterial Stiffness and Wave Reflections in Patients With Sickle Cell Disease. Hypertension, 2004, 44, 924-929.	2.7	32
45	The effects of dopamine on the respiratory system: Friend or foe?. Pulmonary Pharmacology and Therapeutics, 2007, 20, 607-615.	2.6	31
46	Differential Characteristics of Neural Circulatory Control. Circulation, 2001, 104, 1809-1813.	1.6	30
47	Hyperoxia enhances metaboreflex sensitivity during static exercise in humans. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H210-H215.	3.2	30
48	β 2-Adrenergic Blockade and Metabo-Chemoreflex Contributions to Exercise Capacity. Medicine and Science in Sports and Exercise, 2008, 40, 1932-1938.	0.4	29
49	At high cardiac output, diesel exhaust exposure increases pulmonary vascular resistance and decreases distensibility of pulmonary resistive vessels. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H2137-H2144.	3.2	29
50	Differential effects of metaboreceptor and chemoreceptor activation on sympathetic and cardiac baroreflex control following exercise in hypoxia in human. Journal of Physiology, 2007, 585, 165-174.	2.9	28
51	Acute arterio-venous fistula occlusion decreases sympathetic activity and improves baroreflex control in kidney transplanted patients. Nephrology Dialysis Transplantation, 2004, 19, 1606-1612.	0.7	27
52	Severe Hypouricemia Impairs Endothelium-Dependent Vasodilatation and Reduces Blood Pressure in Healthy Young Men: A Randomized, Placebo-Controlled, and Crossover Study. Journal of the American Heart Association, 2019, 8, e013130.	3.7	27
53	Accurate Detection of Dobutamine-induced Haemodynamic Changes by Kino-Cardiography: A Randomised Double-Blind Placebo-Controlled Validation Study. Scientific Reports, 2019, 9, 10479.	3.3	25
54	Dobutamine potentiates arterial chemoreflex sensitivity in healthy normal humans. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 285, H1356-H1361.	3.2	24

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55	Effects of Peripheral Chemoreceptors Deactivation on Sympathetic Activity in Heart Transplant Recipients. Hypertension, 2005, 45, 894-900.	2.7	23
56	Myocardial infarction, heart failure and sympathetic nervous system activity: new pharmacological approaches that affect neurohumoral activation. Expert Opinion on Investigational Drugs, 2008, 17, 1315-1330.	4.1	22
57	Arteriovenous Fistula Closure After Renal Transplantation: A Prospective Study With 24-Hour Ambulatory Blood Pressure Monitoring. Transplantation, 2008, 85, 482-485.	1.0	22
58	High-Wattage E-Cigarettes Induce Tissue Hypoxia and Lower Airway Injury: A Randomized Clinical Trial. American Journal of Respiratory and Critical Care Medicine, 2018, 198, 123-126.	5.6	22
59	Nicotine increases chemoreflex sensitivity to hypoxia in non-smokers. Journal of Hypertension, 2008, 26, 284-294.	0.5	20
60	Dose-dependent effect of dobutamine on chemoreflex activity in healthy volunteers. British Journal of Clinical Pharmacology, 2006, 62, 272-279.	2.4	19
61	Short halt in vaping modifies cardiorespiratory parameters and urine metabolome: a randomized trial. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 318, L331-L344.	2.9	19
62	Comments on Point:Counterpoint: Respiratory sinus arrhythmia is due to a central mechanism vs. respiratory sinus arrhythmia is due to the baroreflex mechanism. Journal of Applied Physiology, 2009, 106, 1745-1749.	2.5	18
63	Pro-thrombotic effect of exercise in a polluted environment: a P-selectin- and CD63-related platelet activation effect. Thrombosis and Haemostasis, 2015, 113, 118-124.	3.4	18
64	Scale-free dynamics of the synchronization between sleep EEG power bands and the high frequency component of heart rate variability in normal men and patients with sleep apnea“hypopnea syndrome. Clinical Neurophysiology, 2007, 118, 2752-2764.	1.5	17
65	Bisoprolol and Atenolol in Essential Hypertension: Effects on Systemic and Renal Hemodynamics and on Ambulatory Blood Pressure. Journal of Cardiovascular Pharmacology, 1993, 22, 785-791.	1.9	16
66	Type D personality: Application of DS14 French version in general and clinical populations. Journal of Health Psychology, 2017, 22, 1075-1083.	2.3	16
67	Arterial Baroreflex Control of the Sinus Node During Dobutamine Exercise Stress Testing. Hypertension, 1999, 33, 987-991.	2.7	15
68	Peripheral sympathetic control during dobutamine infusion. Journal of the American College of Cardiology, 2003, 42, 1605-1610.	2.8	15
69	Summary of 2019 ESC Guidelines on chronic coronary syndromes, acute pulmonary embolism, supraventricular tachycardia and dislipidaemias. Acta Cardiologica, 2021, 76, 1-8.	0.9	15
70	L-NAME Iontophoresis. Journal of Cardiovascular Pharmacology, 2013, 61, 361-368.	1.9	14
71	Prevalence, awareness, treatment, and control of hypertension among rural and urban dwellers of the Far North Region of Cameroon. Journal of Hypertension, 2018, 36, 159-168.	0.5	14
72	Kinocardiography Derived from Ballistocardiography and Seismocardiography Shows High Repeatability in Healthy Subjects. Sensors, 2021, 21, 815.	3.8	14

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73	Increased metaboreflex activity is related to exercise intolerance in heart transplant patients. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H3699-H3706.	3.2	12
74	Sympathoexcitation Increases the QT/RR Slope in Healthy Men: Differential Effects of Hypoxia, Dobutamine, and Phenylephrine. Journal of Cardiovascular Electrophysiology, 2008, 19, 178-184.	1.7	12
75	Intensified Large Artery and Microvascular Response to Cold Adrenergic Stimulation in African Blacks. American Journal of Hypertension, 2009, 22, 958-963.	2.0	12
76	Effects of antiretroviral therapy on arterial stiffness in Cameroonian HIV-infected patients. Blood Pressure Monitoring, 2013, 18, 247-251.	0.8	12
77	Does Intermittent Fasting Improve Microvascular Endothelial Function in Healthy Middle-aged Subjects?. Biology and Medicine (Aligarh), 2016, 8, .	0.3	12
78	Association of urinary sodium excretion with blood pressure and risk factors associated with hypertension among Cameroonian pygmies and bantus: a cross-sectional study. BMC Cardiovascular Disorders, 2018, 18, 49.	1.7	12
79	Cardiovascular adaptation to simulated microgravity and countermeasure efficacy assessed by ballistocardiography and seismocardiography. Scientific Reports, 2020, 10, 17694.	3.3	12
80	Sympathetic Effect of Auricular Transcutaneous Vagus Nerve Stimulation on Healthy Subjects: A Crossover Controlled Clinical Trial Comparing Vagally Mediated and Active Control Stimulation Using Microneurography. Frontiers in Physiology, 2020, 11, 599896.	2.8	12
81	Does Endothelin Play a Role in Chemoreception During Acute Hypoxia in Normal Men?. Chest, 2007, 131, 1467-1472.	0.8	11
82	Ballistocardiography and seismocardiography detection of hemodynamic changes during simulated obstructive apnea. Physiological Measurement, 2020, 41, 065007.	2.1	11
83	Does cardiac denervation affect the short-term blood pressure variability in humans?. Journal of Hypertension, 1994, 12, 1395-1404.	0.5	10
84	Endothelin contributes to the blood pressure rise triggered by hypoxia in severe obstructive sleep apnea. Journal of Hypertension, 2017, 35, 118-124.	0.5	9
85	Modification of the mechanical cardiac performance during end-expiratory voluntary apnea recorded with ballistocardiography and seismocardiography. Physiological Measurement, 2019, 40, 105005.	2.1	9
86	Influence of sympathetic activation on myocardial contractility measured with ballistocardiography and seismocardiography during sustained end-expiratory apnea. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2020, 319, R497-R506.	1.8	9
87	Assessment of left ventricular twist by 3D ballistocardiography and seismocardiography compared with 2D STI echocardiography in a context of enhanced inotropism in healthy subjects. Scientific Reports, 2021, 11, 683.	3.3	8
88	Quantification of Cardiac Kinetic Energy and Its Changes During Transmural Myocardial Infarction Assessed by Multi-Dimensional Seismocardiography. Frontiers in Cardiovascular Medicine, 2021, 8, 603319.	2.4	8
89	Lipid-lowering therapy and risk-based LDL-C goal attainment in Belgium: DA VINCI observational study. Acta Cardiologica, 2024, 79, 20-29.	0.9	8
90	Sympathetic Nerve Activity After Thoracoscopic Cardiac Resynchronization Therapy in Congestive Heart Failure. Journal of Cardiac Failure, 2005, 11, 529-533.	1.7	7

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91	Effects of acquisition device, sampling rate, and record length on kinocardiography during position-induced haemodynamic changes. <i>BioMedical Engineering OnLine</i> , 2021, 20, 3.	2.7	7
92	SP-D and CC-16 Pneumoproteins' Kinetics and Their Predictive Role During SARS-CoV-2 Infection. <i>Frontiers in Medicine</i> , 2021, 8, 761299.	2.6	7
93	Association of Amlodipine with the Risk of In-Hospital Death in Patients with COVID-19 and Hypertension: A Reanalysis on 184 COVID-19 Patients with Hypertension. <i>Pharmaceuticals</i> , 2022, 15, 380.	3.8	7
94	The Effect of Nebivolol and Atenolol on Renal and Systemic Haemodynamics in Hypertensive Patients. <i>High Blood Pressure and Cardiovascular Prevention</i> , 2007, 14, 133-137.	2.2	6
95	Arterial stiffness and cardiometabolic phenotype of Cameroonian Pygmies and Bantus. <i>Journal of Hypertension</i> , 2018, 36, 520-527.	0.5	6
96	Dobutamine potentiates the peripheral chemoreflex in patients with congestive heart failure. <i>Journal of Cardiac Failure</i> , 2003, 9, 380-383.	1.7	5
97	Effects of HeartWare ventricular assist device on the von Willebrand factor: results of an academic Belgian center. <i>BMC Cardiovascular Disorders</i> , 2016, 16, 155.	1.7	5
98	Sympathetic baroreceptor regulation during hypoxic hypotension in humans. <i>Journal of Hypertension</i> , 2018, 36, 1188-1194.	0.5	5
99	Effects of the cardiac myosin activator Omecamtiv-mecarbil on severe chronic aortic regurgitation in Wistar rats. <i>BMC Cardiovascular Disorders</i> , 2018, 18, 99.	1.7	5
100	The Kidney and the Sympathetic System: A Short Review. <i>Current Clinical Pharmacology</i> , 2013, 8, 175-181.	0.6	5
101	Pre-hospital management of acute coronary syndrome patients in Belgium and Luxembourg and other Western European countries: a subset analysis of results from the observational, longitudinal cohort study EPICOR. <i>Acta Cardiologica</i> , 2016, 71, 15-24.	0.9	4
102	Epidemiology of acutely decompensated systolic heart failure over the 2003â€“2013 decade in Douala General Hospital, Cameroon. <i>ESC Heart Failure</i> , 2021, 8, 481-488.	3.1	4
103	New evidence of baroreflex dysfunction in congenital central hypoventilation syndrome. <i>Clinical Science</i> , 2005, 108, 215-216.	4.3	3
104	Effects of digoxin on muscle reflexes in normal humans. <i>European Journal of Applied Physiology</i> , 2009, 107, 581-586.	2.5	3
105	One-year and longer dual antiplatelet therapy after an acute coronary syndrome: a Belgian position paper. <i>Acta Cardiologica</i> , 2017, 72, 19-27.	0.9	3
106	Prevalence and determinants of blood pressure variability in pygmies of Southern region Cameroon. <i>Journal of Hypertension</i> , 2020, 38, 2198-2204.	0.5	3
107	Acute effects of hypouricemia on endothelium, oxidative stress, and arterial stiffness: A randomized, double-blind, crossover study. <i>Physiological Reports</i> , 2021, 9, e15018.	1.7	3
108	The myosin activator omecamtiv mecarbil improves wall stress in a rat model of chronic aortic regurgitation. <i>Physiological Reports</i> , 2021, 9, e14988.	1.7	3

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109	Feasibility and cost of FH cascade screening in Belgium (BEL-CASCADE) including a novel rapid rule-out strategy. <i>Acta Cardiologica</i> , 2021, 76, 227-235.	0.9	3
110	Closed-Loop Multiscale Computational Model of Human Blood Circulation. Applications to Ballistocardiography. <i>Frontiers in Physiology</i> , 2021, 12, 734311.	2.8	3
111	Effects of enoximone on peripheral and central chemoreflex responses in humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 294, H322-H329.	3.2	2
112	Are Trait Emotional Competencies and Heart Rate Variability Linked to Mental Health of Coronary Heart Disease Patients?. <i>Psychological Reports</i> , 2021, 124, 23-38.	1.7	2
113	Does third generation left ventricular assist device alter heart failure-related microvascular dysfunction?. <i>Acta Cardiologica</i> , 2016, 71, 403-10.	0.9	2
114	Zofenopril: Blood pressure control and cardio-protection. <i>Cardiology Journal</i> , 2021, , .	1.2	2
115	Dynamic Ventricular Repolarisation: From Physiology to Prognosis. <i>Current Cardiology Reviews</i> , 2006, 2, 283-286.	1.5	1
116	Nicotine does not compromise resting myocardial blood flow autoregulation in smokers at high cardiovascular risk. <i>Nicotine and Tobacco Research</i> , 2008, 10, 1131-1137.	2.6	1
117	Does third generation left ventricular assist device alter heart failure-related microvascular dysfunction?. <i>Acta Cardiologica</i> , 2016, 71, 403-410.	0.9	1
118	Arterial stiffness in black African ancestry patients with chronic kidney disease living in Cameroon. <i>Cardiovascular Diagnosis and Therapy</i> , 2018, 8, 450-459.	1.7	1
119	Can chronic anti-tumour necrosis factor therapy and colic polyps overwhelm a normal functioning mitral valve? A case report of an endocarditis complicated by a ruptured intracranial mycotic aneurysm. <i>European Heart Journal - Case Reports</i> , 2021, 5, ytab515.	0.6	1
120	Response to Lead, Smoking, and Peripheral Vascular Function. <i>Hypertension</i> , 2009, 53, .	2.7	0
121	RR-SAP causality in heart transplant recipients. , 2010, 2010, 3449-52.		0
122	Factors influencing differences between invasive and spontaneous baroreflex estimates: Distinct methods or different data?. , 2011, 2011, 2554-7.		0