

Philippe van de Borne

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.

119
papers

3,735
citations

35
h-index

58
g-index

126
ext. papers

4,215
ext. citations

4.8
avg, IF

4.95
L-index

#	Paper	IF	Citations
119	Increased sympathetic nerve activity in pulmonary artery hypertension. <i>Circulation</i> , 2004 , 110, 1308-12	16.7	302
118	Absence of low-frequency variability of sympathetic nerve activity in severe heart failure. <i>Circulation</i> , 1997 , 95, 1449-54	16.7	257
117	Effects of empagliflozin on risk for cardiovascular death and heart failure hospitalization across the spectrum of heart failure risk in the EMPA-REG OUTCOME ² trial. <i>European Heart Journal</i> , 2018 , 39, 363-370	9.5	171
116	Prognostic significance of sympathetic nervous system activation in pulmonary arterial hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2010 , 181, 1269-75	10.2	143
115	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, 432-6	3	132
114	Evidence for a central origin of the low-frequency oscillation in RR-interval variability. <i>Circulation</i> , 1998 , 98, 556-61	16.7	123
113	Dysautonomia and its underlying mechanisms in the hypermobility type of Ehlers-Danlos syndrome. <i>Seminars in Arthritis and Rheumatism</i> , 2014 , 44, 93-100	5.3	89
112	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, R378-86	3.2	84
111	Reduction of left ventricular diameter and mass after surgical arteriovenous fistula closure in renal transplant recipients. <i>Transplantation</i> , 2002 , 74, 73-9	1.8	84
110	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	4.9	79
109	Acute effects of passive smoking on peripheral vascular function. <i>Hypertension</i> , 2008 , 51, 1506-11	8.5	79
108	Acute exposure to diesel exhaust impairs nitric oxide-mediated endothelial vasomotor function by increasing endothelial oxidative stress. <i>Hypertension</i> , 2013 , 62, 352-8	8.5	78
107	Effects of aging and cardiac denervation on heart rate variability during sleep. <i>Circulation</i> , 2001 , 103, 84-8	16.7	75
106	Sympathetic neural outflow and chemoreflex sensitivity are related to spontaneous breathing rate in normal men. <i>Hypertension</i> , 2006 , 47, 51-5	8.5	74
105	Validity of pulse pressure and augmentation index as surrogate measures of arterial stiffness during beta-adrenergic stimulation. <i>Journal of Hypertension</i> , 2004 , 22, 511-7	1.9	70
104	Atrial septostomy decreases sympathetic overactivity in pulmonary arterial hypertension. <i>Chest</i> , 2007 , 131, 1831-7	5.3	66
103	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, 2038-44	8.7	65

102	Power spectral analysis of cardiovascular variability in critically ill neurosurgical patients. <i>Critical Care Medicine</i> , 2000 , 28, 2578-83	1.4	62
101	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	5.8	61
100	Hyperventilation alters arterial baroreflex control of heart rate and muscle sympathetic nerve activity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000 , 279, H536-41	5.2	60
99	Dopamine depresses minute ventilation in patients with heart failure. <i>Circulation</i> , 1998 , 98, 126-31	16.7	60
98	Acute cardiovascular and sympathetic effects of nicotine replacement therapy. <i>Hypertension</i> , 2006 , 47, 1162-7	8.5	58
97	Relationship between repeated measures of hemodynamics, muscle sympathetic nerve activity, and their spectral oscillations. <i>Circulation</i> , 1997 , 96, 4326-32	16.7	51
96	Interdependency between heart rate variability and sleep EEG: linear/non-linear?. <i>Clinical Neurophysiology</i> , 2004 , 115, 2031-40	4.3	46
95	New insights into the sympathetic, endothelial and coronary effects of nicotine. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2008 , 35, 458-63	3	45
94	Increased burden and severity of metabolic syndrome and arterial stiffness in treatment-naïve HIV+ patients from Cameroon. <i>Vascular Health and Risk Management</i> , 2013 , 9, 509-16	4.4	43
93	Environmental determinants of blood pressure, arterial stiffness, and central hemodynamics. <i>Journal of Hypertension</i> , 2010 , 28, 903-9	1.9	43
92	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		43
91	Sympathetic control after cardiac resynchronization therapy: responders versus nonresponders. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 291, H2647-52	5.2	42
90	Importance of ventilation in modulating interaction between sympathetic drive and cardiovascular variability. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 280, H722-9	5.2	41
89	Tonic chemoreflex activation does not contribute to elevated muscle sympathetic nerve activity in heart failure. <i>Circulation</i> , 1996 , 94, 1325-8	16.7	41
88	Effects of hunter-gatherer subsistence mode on arterial distensibility in Cameroonian pygmies. <i>Hypertension</i> , 2012 , 60, 123-8	8.5	40
87	Ethnic differences in arterial stiffness and wave reflections after cigarette smoking. <i>Journal of Hypertension</i> , 2006 , 24, 683-9	1.9	38
86	Twenty-four-hour blood pressure and heart rate patterns in chronic hemodialysis patients. <i>American Journal of Kidney Diseases</i> , 1993 , 22, 419-25	7.4	35
85	Reappearance of a normal circadian rhythm of blood pressure after cardiac transplantation. <i>American Journal of Cardiology</i> , 1992 , 69, 794-801	3	35

84	Contrasting effects of phentolamine and nitroprusside on neural and cardiovascular variability. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 281, H559-65	5.2	34
83	Increased peripheral chemoreceptors sensitivity and exercise ventilation in heart transplant recipients. <i>Circulation</i> , 2006 , 113, 252-7	16.7	33
82	Chemoreflex and metaboreflex control during static hypoxic exercise. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 288, H1724-9	5.2	33
81	Respiratory-related heart rate variability in progressive experimental heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 289, H1729-35	5.2	30
80	Sympathetic rhythmicity in cardiac transplant recipients. <i>Circulation</i> , 1999 , 99, 1606-10	16.7	30
79	Uric acid and hypertension: a focused review and practical recommendations. <i>Journal of Hypertension</i> , 2019 , 37, 878-883	1.9	29
78	Chemoreflex and metaboreflex responses to static hypoxic exercise in aging humans. <i>Medicine and Science in Sports and Exercise</i> , 2006 , 38, 305-12	1.2	29
77	Arterial stiffness and wave reflections in patients with sickle cell disease. <i>Hypertension</i> , 2004 , 44, 924-9	8.5	29
76	Acute effects of nicotine on arterial stiffness and wave reflection in healthy young non-smokers. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2009 , 36, 784-9	3	28
75	Hyperoxia enhances metaboreflex sensitivity during static exercise in humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 291, H210-5	5.2	28
74	Acute arterio-venous fistula occlusion decreases sympathetic activity and improves baroreflex control in kidney transplanted patients. <i>Nephrology Dialysis Transplantation</i> , 2004 , 19, 1606-12	4.3	26
73	Differential characteristics of neural circulatory control: early versus late after cardiac transplantation. <i>Circulation</i> , 2001 , 104, 1809-13	16.7	26
72	The effects of dopamine on the respiratory system: friend or foe?. <i>Pulmonary Pharmacology and Therapeutics</i> , 2007 , 20, 607-15	3.5	24
71	At high cardiac output, diesel exhaust exposure increases pulmonary vascular resistance and decreases distensibility of pulmonary resistive vessels. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 309, H2137-44	5.2	22
70	Beta-adrenergic blockade and metabo-chemoreflex contributions to exercise capacity. <i>Medicine and Science in Sports and Exercise</i> , 2008 , 40, 1932-8	1.2	22
69	Effects of peripheral chemoreceptors deactivation on sympathetic activity in heart transplant recipients. <i>Hypertension</i> , 2005 , 45, 894-900	8.5	22
68	Differential effects of metaboreceptor and chemoreceptor activation on sympathetic and cardiac baroreflex control following exercise in hypoxia in human. <i>Journal of Physiology</i> , 2007 , 585, 165-74	3.9	21
67	Dobutamine potentiates arterial chemoreflex sensitivity in healthy normal humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003 , 285, H1356-61	5.2	21

66	Arteriovenous fistula closure after renal transplantation: a prospective study with 24-hour ambulatory blood pressure monitoring. <i>Transplantation</i> , 2008 , 85, 482-5	1.8	18
65	Nicotine increases chemoreflex sensitivity to hypoxia in non-smokers. <i>Journal of Hypertension</i> , 2008 , 26, 284-94	1.9	18
64	Severe Hypouricemia Impairs Endothelium-Dependent Vasodilatation and Reduces Blood Pressure in Healthy Young Men: A Randomized, Placebo-Controlled, and Crossover Study. <i>Journal of the American Heart Association</i> , 2019 , 8, e013130	6	18
63	Comments on point:counterpoint: respiratory sinus arrhythmia is due to a central mechanism vs. respiratory sinus arrhythmia is due to the baroreflex mechanism. <i>Journal of Applied Physiology</i> , 2009 , 106, 1745-9	3.7	17
62	Dose-dependent effect of dobutamine on chemoreflex activity in healthy volunteers. <i>British Journal of Clinical Pharmacology</i> , 2006 , 62, 272-9	3.8	17
61	High-Wattage E-Cigarettes Induce Tissue Hypoxia and Lower Airway Injury: A Randomized Clinical Trial. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018 , 198, 123-126	10.2	16
60	Myocardial infarction, heart failure and sympathetic nervous system activity: new pharmacological approaches that affect neurohumoral activation. <i>Expert Opinion on Investigational Drugs</i> , 2008 , 17, 1315-30	5.9	16
59	Pro-thrombotic effect of exercise in a polluted environment: a P-selectin- and CD63-related platelet activation effect. <i>Thrombosis and Haemostasis</i> , 2015 , 113, 118-24	7	14
58	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. <i>Clinical Neurophysiology</i> , 2007 , 118, 2752-64	4.3	14
57	Arterial baroreflex control of the sinus node during dobutamine exercise stress testing. <i>Hypertension</i> , 1999 , 33, 987-91	8.5	14
56	Bisoprolol and atenolol in essential hypertension: effects on systemic and renal hemodynamics and on ambulatory blood pressure. <i>Journal of Cardiovascular Pharmacology</i> , 1993 , 22, 785-91	3.1	14
55	Accurate Detection of Dobutamine-induced Haemodynamic Changes by Kino-Cardiography: A Randomised Double-Blind Placebo-Controlled Validation Study. <i>Scientific Reports</i> , 2019 , 9, 10479	4.9	13
54	Peripheral sympathetic control during dobutamine infusion: effects of aging and heart failure. <i>Journal of the American College of Cardiology</i> , 2003 , 42, 1605-10	15.1	13
53	L-NAME iontophoresis: a tool to assess NO-mediated vasoreactivity during thermal hyperemic vasodilation in humans. <i>Journal of Cardiovascular Pharmacology</i> , 2013 , 61, 361-8	3.1	11
52	Prevalence, awareness, treatment, and control of hypertension among rural and urban dwellers of the Far North Region of Cameroon. <i>Journal of Hypertension</i> , 2018 , 36, 159-168	1.9	10
51	Association of urinary sodium excretion with blood pressure and risk factors associated with hypertension among Cameroonian pygmies and bantus: a cross-sectional study. <i>BMC Cardiovascular Disorders</i> , 2018 , 18, 49	2.3	10
50	Effects of antiretroviral therapy on arterial stiffness in Cameroonian HIV-infected patients. <i>Blood Pressure Monitoring</i> , 2013 , 18, 247-51	1.3	10
49	Intensified large artery and microvascular response to cold adrenergic stimulation in African blacks. <i>American Journal of Hypertension</i> , 2009 , 22, 958-63	2.3	10

48	Increased metaboreflex activity is related to exercise intolerance in heart transplant patients. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 293, H3699-706	5.2	10
47	Summary of 2019 ESC Guidelines on chronic coronary syndromes, acute pulmonary embolism, supraventricular tachycardia and dislipidaemias. <i>Acta Cardiologica</i> , 2021 , 76, 1-8	0.9	10
46	Type D personality: Application of DS14 French version in general and clinical populations. <i>Journal of Health Psychology</i> , 2017 , 22, 1075-1083	3.1	9
45	Sympathoexcitation increases the QT/RR slope in healthy men: differential effects of hypoxia, dobutamine, and phenylephrine. <i>Journal of Cardiovascular Electrophysiology</i> , 2008 , 19, 178-84	2.7	9
44	Short halt in vaping modifies cardiorespiratory parameters and urine metabolome: a randomized trial. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020 , 318, L331-L344	5.8	8
43	Ballistocardiography and seismocardiography detection of hemodynamic changes during simulated obstructive apnea. <i>Physiological Measurement</i> , 2020 , 41, 065007	2.9	7
42	Does endothelin play a role in chemoreception during acute hypoxia in normal men?. <i>Chest</i> , 2007 , 131, 1467-72	5.3	7
41	Sympathetic nerve activity after thoracoscopic cardiac resynchronization therapy in congestive heart failure. <i>Journal of Cardiac Failure</i> , 2005 , 11, 529-33	3.3	7
40	Does cardiac denervation affect the short-term blood pressure variability in humans?. <i>Journal of Hypertension</i> , 1994 , 12, 1395-1404	1.9	7
39	Cardiovascular adaptation to simulated microgravity and countermeasure efficacy assessed by ballistocardiography and seismocardiography. <i>Scientific Reports</i> , 2020 , 10, 17694	4.9	7
38	Does Intermittent Fasting Improve Microvascular Endothelial Function in Healthy Middle-aged Subjects?. <i>Biology and Medicine (Aligarh)</i> , 2016 , 8,	0	7
37	Modification of the mechanical cardiac performance during end-expiratory voluntary apnea recorded with ballistocardiography and seismocardiography. <i>Physiological Measurement</i> , 2019 , 40, 105005	2.9	6
36	Endothelin contributes to the blood pressure rise triggered by hypoxia in severe obstructive sleep apnea. <i>Journal of Hypertension</i> , 2017 , 35, 118-124	1.9	6
35	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	2.3	5
34	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	2.9	5
33	Dobutamine potentiates the peripheral chemoreflex in patients with congestive heart failure. <i>Journal of Cardiac Failure</i> , 2003 , 9, 380-3	3.3	5
32	Arterial stiffness and cardiometabolic phenotype of Cameroonian Pygmies and Bantus. <i>Journal of Hypertension</i> , 2018 , 36, 520-527	1.9	5
31	Effects of acquisition device, sampling rate, and record length on kinocardiography during position-induced haemodynamic changes. <i>BioMedical Engineering OnLine</i> , 2021 , 20, 3	4.1	5

30	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
29	Effects of the cardiac myosin activator Omecamtiv-mecarbil on severe chronic aortic regurgitation in Wistar rats. <i>BMC Cardiovascular Disorders</i> , 2018 , 18, 99	2.3	4
28	The kidney and the sympathetic system: a short review. <i>Current Clinical Pharmacology</i> , 2013 , 8, 175-81	2.5	4
27	Influence of sympathetic activation on myocardial contractility measured with ballistocardiography and seismocardiography during sustained end-expiratory apnea. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020 , 319, R497-R506	3.2	4
26	Kinocardiography Derived from Ballistocardiography and Seismocardiography Shows High Repeatability in Healthy Subjects. <i>Sensors</i> , 2021 , 21,	3.8	4
25	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. <i>Frontiers in Physiology</i> , 2020 , 11, 599896	4.6	3
24	New evidence of baroreflex dysfunction in congenital central hypoventilation syndrome. <i>Clinical Science</i> , 2005 , 108, 215-6	6.5	3
23	Sympathetic baroreceptor regulation during hypoxic hypotension in humans: new insights. <i>Journal of Hypertension</i> , 2018 , 36, 1188-1194	1.9	2
22	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	2
21	Does third generation left ventricular assist device alter heart failure-related microvascular dysfunction?. <i>Acta Cardiologica</i> , 2016 , 71, 403-10	0.9	2
20	Quantification of Cardiac Kinetic Energy and Its Changes During Transmural Myocardial Infarction Assessed by Multi-Dimensional Seismocardiography. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 603319	5.4	2
19	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	1.6	2
18	Epidemiology of acutely decompensated systolic heart failure over the 2003-2013 decade in Douala General Hospital, Cameroon. <i>ESC Heart Failure</i> , 2021 , 8, 481-488	3.7	2
17	Assessment of left ventricular twist by 3D ballistocardiography and seismocardiography compared with 2D STI echocardiography in a context of enhanced inotropism in healthy subjects. <i>Scientific Reports</i> , 2021 , 11, 683	4.9	2
16	Does third generation left ventricular assist device alter heart failure-related microvascular dysfunction?. <i>Acta Cardiologica</i> , 2016 , 71, 403-410	0.9	1
15	Effects of digoxin on muscle reflexes in normal humans. <i>European Journal of Applied Physiology</i> , 2009 , 107, 581-6	3.4	1
14	Nicotine does not compromise resting myocardial blood flow autoregulation in smokers at high cardiovascular risk. <i>Nicotine and Tobacco Research</i> , 2008 , 10, 1131-7	4.9	1
13	Effects of enoximone on peripheral and central chemoreflex responses in humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 294, H322-9	5.2	1

12	Dynamic Ventricular Repolarisation: From Physiology to Prognosis. <i>Current Cardiology Reviews</i> , 2006 , 2, 283-286	2.4	1
11	SP-D and CC-16 Pneumoproteins Kinetics and Their Predictive Role During SARS-CoV-2 Infection.. <i>Frontiers in Medicine</i> , 2021 , 8, 761299	4.9	1
10	Arterial stiffness in black African ancestry patients with chronic kidney disease living in Cameroon. <i>Cardiovascular Diagnosis and Therapy</i> , 2018 , 8, 450-459	2.6	1
9	The myosin activator omecamtiv mecarbil improves wall stress in a rat model of chronic aortic regurgitation. <i>Physiological Reports</i> , 2021 , 9, e14988	2.6	1
8	Closed-Loop Multiscale Computational Model of Human Blood Circulation. Applications to Ballistocardiography.. <i>Frontiers in Physiology</i> , 2021 , 12, 734311	4.6	1
7	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	0
6	Prevalence and determinants of blood pressure variability in pygmies of Southern region Cameroon. <i>Journal of Hypertension</i> , 2020 , 38, 2198-2204	1.9	0
5	Acute effects of hypouricemia on endothelium, oxidative stress, and arterial stiffness: A randomized, double-blind, crossover study. <i>Physiological Reports</i> , 2021 , 9, e15018	2.6	0
4	Can chronic anti-tumour necrosing 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	0.9	0
3	Lipid-lowering therapy and risk-based LDL-C goal attainment in Belgium: DA VINCI observational study.. <i>Acta Cardiologica</i> , 2022 , 1-10	0.9	0
2	RR-SAP causality in heart transplant recipients. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 3449-52	0.9	
1	Factors influencing differences between invasive and spontaneous baroreflex estimates: distinct methods or different data?. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 2551-7	0.9	