

Philippe van de Borne

List of Publications by Year in descending order

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122
papers

4,700
citations

87723

38
h-index

106150

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.	1.0	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.	2.5	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.	0.7	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.	1.6	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.	1.6	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.	0.9	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.	1.3	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.	0.5	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.	1.3	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.	0.3	89
14	Sympathetic Neural Outflow and Chemoreflex Sensitivity Are Related to Spontaneous Breathing Rate in Normal Men. <i>Hypertension</i> , 2006, 47, 51-55.	1.3	89
15	Acute Effects of Passive Smoking on Peripheral Vascular Function. <i>Hypertension</i> , 2008, 51, 1506-1511.	1.3	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.	2.6	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.	3.1	75

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19	Atrial Septostomy Decreases Sympathetic Overactivity in Pulmonary Arterial Hypertension. <i>Chest</i> , 2007, 131, 1831-1837.	0.4	75
20	Power spectral analysis of cardiovascular variability in critically ill neurosurgical patients. <i>Critical Care Medicine</i> , 2000, 28, 2578-2583.	0.4	74
21	Acute Cardiovascular and Sympathetic Effects of Nicotine Replacement Therapy. <i>Hypertension</i> , 2006, 47, 1162-1167.	1.3	73
22	Dopamine Depresses Minute Ventilation in Patients With Heart Failure. <i>Circulation</i> , 1998, 98, 126-131.	1.6	70
23	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-H541.	1.5	69
24	NEW INSIGHTS INTO THE SYMPATHETIC, ENDOTHELIAL AND CORONARY EFFECTS OF NICOTINE. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2008, 35, 458-463.	0.9	59
25	Relationship Between Repeated Measures of Hemodynamics, Muscle Sympathetic Nerve Activity, and Their Spectral Oscillations. <i>Circulation</i> , 1997, 96, 4326-4332.	1.6	59
26	Interdependency between heart rate variability and sleep EEG: linear/non-linear?. <i>Clinical Neurophysiology</i> , 2004, 115, 2031-2040.	0.7	56
27	Environmental determinants of blood pressure, arterial stiffness, and central hemodynamics. <i>Journal of Hypertension</i> , 2010, 28, 903-909.	0.3	53
28	Uric acid and hypertension. <i>Journal of Hypertension</i> , 2019, 37, 878-883.	0.3	53
29	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-H729.	1.5	51
30	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.	1.0	50
31	Sympathetic control after cardiac resynchronization therapy: responders versus nonresponders. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H2647-H2652.	1.5	48
32	Effects of Hunter-Gatherer Subsistence Mode on Arterial Distensibility in Cameroonian Pygmies. <i>Hypertension</i> , 2012, 60, 123-128.	1.3	47
33	Tonic Chemoreflex Activation Does Not Contribute to Elevated Muscle Sympathetic Nerve Activity in Heart Failure. <i>Circulation</i> , 1996, 94, 1325-1328.	1.6	45
34	Contrasting effects of phentolamine and nitroprusside on neural and cardiovascular variability. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001, 281, H559-H565.	1.5	44
35	Ethnic differences in arterial stiffness and wave reflections after cigarette smoking. <i>Journal of Hypertension</i> , 2006, 24, 683-689.	0.3	44
36	Chemoreflex and metaboreflex control during static hypoxic exercise. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 288, H1724-H1729.	1.5	41

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37	Twenty-four-Hour Blood Pressure and Heart Rate Patterns in Chronic Hemodialysis Patients. <i>American Journal of Kidney Diseases</i> , 1993, 22, 419-425.	2.1	40
38	Respiratory-related heart rate variability in progressive experimental heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 289, H1729-H1735.	1.5	40
39	Chemoreflex and Metaboreflex Responses to Static Hypoxic Exercise in Aging Humans. <i>Medicine and Science in Sports and Exercise</i> , 2006, 38, 305-312.	0.2	39
40	Reappearance of a normal circadian rhythm of blood pressure after cardiac transplantation. <i>American Journal of Cardiology</i> , 1992, 69, 794-801.	0.7	38
41	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, 784-789.	0.9	38
42	Increased Peripheral Chemoreceptors Sensitivity and Exercise Ventilation in Heart Transplant Recipients. <i>Circulation</i> , 2006, 113, 252-257.	1.6	35
43	Sympathetic Rhythmicity in Cardiac Transplant Recipients. <i>Circulation</i> , 1999, 99, 1606-1610.	1.6	33
44	Arterial Stiffness and Wave Reflections in Patients With Sickle Cell Disease. <i>Hypertension</i> , 2004, 44, 924-929.	1.3	32
45	The effects of dopamine on the respiratory system: Friend or foe?. <i>Pulmonary Pharmacology and Therapeutics</i> , 2007, 20, 607-615.	1.1	31
46	Differential Characteristics of Neural Circulatory Control. <i>Circulation</i> , 2001, 104, 1809-1813.	1.6	30
47	Hyperoxia enhances metaboreflex sensitivity during static exercise in humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H210-H215.	1.5	30
48	β -Adrenergic Blockade and Metabo-Chemoreflex Contributions to Exercise Capacity. <i>Medicine and Science in Sports and Exercise</i> , 2008, 40, 1932-1938.	0.2	29
49	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-H2144.	1.5	29
50	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, 165-174.	1.3	28
51	Acute arterio-venous fistula occlusion decreases sympathetic activity and improves baroreflex control in kidney transplanted patients. <i>Nephrology Dialysis Transplantation</i> , 2004, 19, 1606-1612.	0.4	27
52	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.	1.6	27
53	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.	1.6	25
54	Dobutamine potentiates arterial chemoreflex sensitivity in healthy normal humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 285, H1356-H1361.	1.5	24

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55	Effects of Peripheral Chemoreceptors Deactivation on Sympathetic Activity in Heart Transplant Recipients. <i>Hypertension</i> , 2005, 45, 894-900.	1.3	23
56	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, 1315-1330.	1.9	22
57	Arteriovenous Fistula Closure After Renal Transplantation: A Prospective Study With 24-Hour Ambulatory Blood Pressure Monitoring. <i>Transplantation</i> , 2008, 85, 482-485.	0.5	22
58	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.	2.5	22
59	Nicotine increases chemoreflex sensitivity to hypoxia in non-smokers. <i>Journal of Hypertension</i> , 2008, 26, 284-294.	0.3	20
60	Dose-dependent effect of dobutamine on chemoreflex activity in healthy volunteers. <i>British Journal of Clinical Pharmacology</i> , 2006, 62, 272-279.	1.1	19
61	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.	1.3	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. <i>Journal of Applied Physiology</i> , 2009, 106, 1745-1749.	1.2	18
63	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, 118-124.	1.8	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. <i>Clinical Neurophysiology</i> , 2007, 118, 2752-2764.	0.7	17
65	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, 785-791.	0.8	16
66	Type D personality: Application of DS14 French version in general and clinical populations. <i>Journal of Health Psychology</i> , 2017, 22, 1075-1083.	1.3	16
67	Arterial Baroreflex Control of the Sinus Node During Dobutamine Exercise Stress Testing. <i>Hypertension</i> , 1999, 33, 987-991.	1.3	15
68	Peripheral sympathetic control during dobutamine infusion. <i>Journal of the American College of Cardiology</i> , 2003, 42, 1605-1610.	1.2	15
69	Summary of 2019 ESC Guidelines on chronic coronary syndromes, acute pulmonary embolism, supraventricular tachycardia and dislipidaemias. <i>Acta Cardiologica</i> , 2021, 76, 1-8.	0.3	15
70	L-NAME Iontophoresis. <i>Journal of Cardiovascular Pharmacology</i> , 2013, 61, 361-368.	0.8	14
71	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.	0.3	14
72	Kinocardiography Derived from Ballistocardiography and Seismocardiography Shows High Repeatability in Healthy Subjects. <i>Sensors</i> , 2021, 21, 815.	2.1	14

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73	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-H3706.	1.5	12
74	Sympathoexcitation Increases the QT/RR Slope in Healthy Men: Differential Effects of Hypoxia, Dobutamine, and Phenylephrine. <i>Journal of Cardiovascular Electrophysiology</i> , 2008, 19, 178-184.	0.8	12
75	Intensified Large Artery and Microvascular Response to Cold Adrenergic Stimulation in African Blacks. <i>American Journal of Hypertension</i> , 2009, 22, 958-963.	1.0	12
76	Effects of antiretroviral therapy on arterial stiffness in Cameroonian HIV-infected patients. <i>Blood Pressure Monitoring</i> , 2013, 18, 247-251.	0.4	12
77	Does Intermittent Fasting Improve Microvascular Endothelial Function in Healthy Middle-aged Subjects?. <i>Biology and Medicine (Aligarh)</i> , 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. <i>BMC Cardiovascular Disorders</i> , 2018, 18, 49.	0.7	12
79	Cardiovascular adaptation to simulated microgravity and countermeasure efficacy assessed by ballistocardiography and seismocardiography. <i>Scientific Reports</i> , 2020, 10, 17694.	1.6	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. <i>Frontiers in Physiology</i> , 2020, 11, 599896.	1.3	12
81	Does Endothelin Play a Role in Chemoreception During Acute Hypoxia in Normal Men?. <i>Chest</i> , 2007, 131, 1467-1472.	0.4	11
82	Ballistocardiography and seismocardiography detection of hemodynamic changes during simulated obstructive apnea. <i>Physiological Measurement</i> , 2020, 41, 065007.	1.2	11
83	Does cardiac denervation affect the short-term blood pressure variability in humans?. <i>Journal of Hypertension</i> , 1994, 12, 1395-1404.	0.3	10
84	Endothelin contributes to the blood pressure rise triggered by hypoxia in severe obstructive sleep apnea. <i>Journal of Hypertension</i> , 2017, 35, 118-124.	0.3	9
85	Modification of the mechanical cardiac performance during end-expiratory voluntary apnea recorded with ballistocardiography and seismocardiography. <i>Physiological Measurement</i> , 2019, 40, 105005.	1.2	9
86	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.	0.9	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. <i>Scientific Reports</i> , 2021, 11, 683.	1.6	8
88	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.	1.1	8
89	Lipid-lowering therapy and risk-based LDL-C goal attainment in Belgium: DA VINCI observational study. <i>Acta Cardiologica</i> , 2024, 79, 20-29.	0.3	8
90	Sympathetic Nerve Activity After Thoracoscopic Cardiac Resynchronization Therapy in Congestive Heart Failure. <i>Journal of Cardiac Failure</i> , 2005, 11, 529-533.	0.7	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.	1.3	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.	1.2	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.	1.7	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.	1.0	6
95	Arterial stiffness and cardiometabolic phenotype of Cameroonian Pygmies and Bantus. <i>Journal of Hypertension</i> , 2018, 36, 520-527.	0.3	6
96	Dobutamine potentiates the peripheral chemoreflex in patients with congestive heart failure. <i>Journal of Cardiac Failure</i> , 2003, 9, 380-383.	0.7	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.	0.7	5
98	Sympathetic baroreceptor regulation during hypoxic hypotension in humans. <i>Journal of Hypertension</i> , 2018, 36, 1188-1194.	0.3	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.	0.7	5
100	The Kidney and the Sympathetic System: A Short Review. <i>Current Clinical Pharmacology</i> , 2013, 8, 175-181.	0.2	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.	0.3	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.	1.4	4
103	New evidence of baroreflex dysfunction in congenital central hypoventilation syndrome. <i>Clinical Science</i> , 2005, 108, 215-216.	1.8	3
104	Effects of digoxin on muscle reflexes in normal humans. <i>European Journal of Applied Physiology</i> , 2009, 107, 581-586.	1.2	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.	0.3	3
106	Prevalence and determinants of blood pressure variability in pygmies of Southern region Cameroon. <i>Journal of Hypertension</i> , 2020, 38, 2198-2204.	0.3	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.	0.7	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.	0.7	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.	0.3	3
110	Closed-Loop Multiscale Computational Model of Human Blood Circulation. Applications to Ballistocardiography. <i>Frontiers in Physiology</i> , 2021, 12, 734311.	1.3	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.	1.5	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.	0.9	2
113	Does third generation left ventricular assist device alter heart failure-related microvascular dysfunction?. <i>Acta Cardiologica</i> , 2016, 71, 403-10.	0.3	2
114	Zofenopril: Blood pressure control and cardio-protection. <i>Cardiology Journal</i> , 2021, , .	0.5	2
115	Dynamic Ventricular Repolarisation: From Physiology to Prognosis. <i>Current Cardiology Reviews</i> , 2006, 2, 283-286.	0.6	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.	1.4	1
117	Does third generation left ventricular assist device alter heart failure-related microvascular dysfunction?. <i>Acta Cardiologica</i> , 2016, 71, 403-410.	0.3	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.	0.7	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.	0.3	1
120	Response to Lead, Smoking, and Peripheral Vascular Function. <i>Hypertension</i> , 2009, 53, .	1.3	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