

# Jean-Claude Barthelemy

## List of Publications by Citations

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120  
papers

3,320  
citations

33  
h-index

53  
g-index

125  
ext. papers

3,873  
ext. citations

4.1  
avg, IF

4.64  
L-index

#	Paper	IF	Citations
120	Even a low-dose of moderate-to-vigorous physical activity reduces mortality by 22% in adults aged 80 years: a systematic review and meta-analysis. <i>British Journal of Sports Medicine</i> , <b>2015</b> , 49, 1262-7	10.3	294
119	Wavelet transform to quantify heart rate variability and to assess its instantaneous changes. <i>Journal of Applied Physiology</i> , <b>1999</b> , 86, 1081-91	3.7	163
118	Relationship among the severity of sleep apnea syndrome, cardiac arrhythmias, and autonomic imbalance. <i>PACE - Pacing and Clinical Electrophysiology</i> , <b>2003</b> , 26, 669-77	1.6	110
117	Autonomic nervous system activity and decline as prognostic indicators of cardiovascular and cerebrovascular events: the PROOF Study. Study design and population sample. Associations with sleep-related breathing disorders: the SYNAPSE Study. <i>Neuroepidemiology</i> , <b>2007</b> , 29, 18-28	5.4	96
116	Autonomic adaptations to intensive and overload training periods: a laboratory study. <i>Medicine and Science in Sports and Exercise</i> , <b>2002</b> , 34, 1660-6	1.2	96
115	Heart rate variability in an ageing population and its association with lifestyle and cardiovascular risk factors: results of the SAPALDIA study. <i>Europace</i> , <b>2006</b> , 8, 521-9	3.9	91
114	Assessing renal graft function in clinical trials: can tests predicting glomerular filtration rate substitute for a reference method?. <i>Kidney International</i> , <b>2004</b> , 65, 289-97	9.9	91
113	Premature atrial contractions in the general population: frequency and risk factors. <i>Circulation</i> , <b>2012</b> , 126, 2302-8	16.7	90
112	Automatic cardiac event recorders reveal paroxysmal atrial fibrillation after unexplained strokes or transient ischemic attacks. <i>Annals of Noninvasive Electrocardiology</i> , <b>2003</b> , 8, 194-9	1.5	88
111	Frequent and prolonged asymptomatic episodes of paroxysmal atrial fibrillation revealed by automatic long-term event recorders in patients with a negative 24-hour Holter. <i>PACE - Pacing and Clinical Electrophysiology</i> , <b>2002</b> , 25, 1587-93	1.6	81
110	Autonomic nervous system activity in premature and full-term infants from theoretical term to 7 years. <i>Autonomic Neuroscience: Basic and Clinical</i> , <b>2007</b> , 136, 105-9	2.4	74
109	Frequency of pain crises in sickle cell anemia and its relationship with the sympatho-vagal balance, blood viscosity and inflammation. <i>Haematologica</i> , <b>2011</b> , 96, 1589-94	6.6	73
108	Autonomic cardiac control of very preterm newborns: a prolonged dysfunction. <i>Early Human Development</i> , <b>2008</b> , 84, 681-7	2.2	66
107	Effects of passive smoking on heart rate variability, heart rate and blood pressure: an observational study. <i>International Journal of Epidemiology</i> , <b>2007</b> , 36, 834-40	7.8	66
106	Interval training in elderly men increases both heart rate variability and baroreflex activity. <i>Clinical Autonomic Research</i> , <b>2005</b> , 15, 107-15	4.3	64
105	Skeletal muscle lipid content and oxidative activity in relation to muscle fiber type in aging and metabolic syndrome. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2015</b> , 70, 566-76	6.4	62
104	HRVanalysis: A Free Software for Analyzing Cardiac Autonomic Activity. <i>Frontiers in Physiology</i> , <b>2016</b> , 7, 557	4.6	56

103	Effect of acute hypoxia on QT rate dependence and corrected QT interval in healthy subjects. <i>American Journal of Cardiology</i> , <b>2003</b> , 91, 916-9	3	52
102	High accuracy of automatic detection of atrial fibrillation using wavelet transform of heart rate intervals. <i>PACE - Pacing and Clinical Electrophysiology</i> , <b>2002</b> , 25, 457-62	1.6	51
101	Effect of physical activity on heart rate variability in normal weight, overweight and obese subjects: results from the SAPALDIA study. <i>European Journal of Applied Physiology</i> , <b>2008</b> , 104, 557-65	3.4	47
100	Association between severe obstructive sleep apnea and incident arterial hypertension in the older people population. <i>Sleep Medicine</i> , <b>2013</b> , 14, 838-42	4.6	46
99	Obstructive sleep apnea is associated with preserved bone mineral density in healthy elderly subjects. <i>Sleep</i> , <b>2013</b> , 36, 1509-15	1.1	45
98	Chronotropic incompetence response to exercise in congestive heart failure, relationship with the cardiac autonomic status. <i>Clinical Physiology</i> , <b>2001</b> , 21, 335-42		44
97	Cardiac baroreflex control in humans during and immediately after brief exposure to simulated high altitude. <i>Clinical Physiology and Functional Imaging</i> , <b>2002</b> , 22, 301-6	2.4	43
96	Cavotricuspid isthmus angiography predicts atrial flutter ablation efficacy in 281 patients randomized between 8 mm- and externally irrigated-tip catheter. <i>European Heart Journal</i> , <b>2006</b> , 27, 1833-40	2.5	41
95	Cardiac interbeat interval increment for the identification of obstructive sleep apnea. <i>PACE - Pacing and Clinical Electrophysiology</i> , <b>2002</b> , 25, 1192-9	1.6	41
94	Desperately seeking grey matter volume changes in sleep apnea: A methodological review of magnetic resonance brain voxel-based morphometry studies. <i>Sleep Medicine Reviews</i> , <b>2016</b> , 25, 112-20	10.2	39
93	Lack of specific gray matter alterations in restless legs syndrome in elderly subjects. <i>Journal of Neurology</i> , <b>2010</b> , 257, 344-8	5.5	39
92	C-reactive protein implications in new-onset hypertension in a healthy population initially aged 65 years: the Proof study. <i>Journal of Hypertension</i> , <b>2009</b> , 27, 736-43	1.9	38
91	Wavelet transform of heart rate variability to assess autonomic nervous system activity does not predict arousal from general anesthesia. <i>Canadian Journal of Anaesthesia</i> , <b>2001</b> , 48, 859-63	3	36
90	Higher gait variability is associated with decreased parietal gray matter volume among healthy older adults. <i>Brain Topography</i> , <b>2014</b> , 27, 293-5	4.3	35
89	Glutathione S-transferase polymorphisms, passive smoking, obesity, and heart rate variability in nonsmokers. <i>Environmental Health Perspectives</i> , <b>2008</b> , 116, 1494-9	8.4	35
88	Undiagnosed sleep-related breathing disorders are associated with focal brainstem atrophy in the elderly. <i>Human Brain Mapping</i> , <b>2009</b> , 30, 2090-7	5.9	34
87	Preliminary study of efficacy of cup suction in the correction of typical pectus excavatum. <i>Journal of Pediatric Surgery</i> , <b>2016</b> , 51, 183-7	2.6	32
86	Autonomic nervous system activity is independently associated with the risk of shift in the non-dipper blood pressure pattern. <i>Hypertension Research</i> , <b>2010</b> , 33, 1032-7	4.7	31

85	Exercise Frequency Determines Heart Rate Variability Gains in Older People: A Meta-Analysis and Meta-Regression. <i>Sports Medicine</i> , <b>2019</b> , 49, 719-729	10.6	28
84	Dominance in cardiac parasympathetic activity during real recreational SCUBA diving. <i>European Journal of Applied Physiology</i> , <b>2009</b> , 106, 345-52	3.4	28
83	Differences in heart rate variability associated with long-term exposure to NO <sub>2</sub> . <i>Environmental Health Perspectives</i> , <b>2008</b> , 116, 1357-61	8.4	28
82	Nocturnal autonomic nervous system activity impairment in sickle cell trait carriers. <i>Clinical Physiology and Functional Imaging</i> , <b>2006</b> , 26, 87-91	2.4	28
81	Alteration of QT rate dependence reflects cardiac autonomic imbalance in patients with obstructive sleep apnea syndrome. <i>PACE - Pacing and Clinical Electrophysiology</i> , <b>2003</b> , 26, 1446-53	1.6	28
80	Refeeding normalizes the QT rate dependence of female anorexic patients. <i>American Journal of Cardiology</i> , <b>2005</b> , 95, 277-80	3	27
79	Autonomic dysfunction with early respiratory syncytial virus-related infection. <i>Autonomic Neuroscience: Basic and Clinical</i> , <b>2010</b> , 156, 90-5	2.4	25
78	Obstructive sleep apnea and the metabolic syndrome in an elderly healthy population: the SYNAPSE cohort. <i>Sleep and Breathing</i> , <b>2012</b> , 16, 895-902	3.1	24
77	Heart rate increment: an electrocardiological approach for the early detection of obstructive sleep apnoea/hypopnoea syndrome. <i>Clinical Science</i> , <b>2004</b> , 107, 105-10	6.5	24
76	Relation of central fat mass to obstructive sleep apnea in the elderly. <i>Sleep</i> , <b>2013</b> , 36, 501-7	1.1	23
75	Quantification of cumulated physical fatigue at the workplace. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2002</b> , 445, 267-72	4.6	23
74	Continuous positive airway pressure treatment improves the QT rate dependence adaptation of obstructive sleep apnea patients. <i>PACE - Pacing and Clinical Electrophysiology</i> , <b>2005</b> , 28, 819-25	1.6	23
73	Association of increased gait variability while dual tasking and cognitive decline: results from a prospective longitudinal cohort pilot study. <i>GeroScience</i> , <b>2017</b> , 39, 439-445	8.9	22
72	Association between ambulatory 24-hour blood pressure levels and brain volume reduction: a cross-sectional elderly population-based study. <i>Hypertension</i> , <b>2012</b> , 60, 1324-31	8.5	22
71	Metabolic syndrome is associated with poor memory and executive performance in elderly community residents: the PROOF study. <i>American Journal of Geriatric Psychiatry</i> , <b>2014</b> , 22, 1096-104	6.5	21
70	Impaired baroreflex sensitivity and the risks of new-onset ambulatory hypertension, in an elderly population-based study. <i>International Journal of Cardiology</i> , <b>2013</b> , 168, 4010-4	3.2	21
69	Can maintaining cognitive function at 65 years old predict successful ageing 6 years later? The PROOF study. <i>Age and Ageing</i> , <b>2011</b> , 40, 259-65	3	21
68	Accuracy of an automatic and patient-triggered long-term solid memory ambulatory cardiac event recorder. <i>American Journal of Cardiology</i> , <b>1997</b> , 80, 1095-8	3	21

67	Lower skeletal muscle capillarization in hypertensive elderly men. <i>Experimental Gerontology</i> , <b>2016</b> , 76, 80-8	4.5	18
66	Diabetes, impaired fasting glucose, and cognitive decline in a population of elderly community residents. <i>Aging Clinical and Experimental Research</i> , <b>2012</b> , 24, 377-83	4.8	18
65	Heart rate variability in association with frequent use of household sprays and scented products in SAPALDIA. <i>Environmental Health Perspectives</i> , <b>2012</b> , 120, 958-64	8.4	18
64	Alteration of the QT rate dependence in anorexia nervosa. <i>PACE - Pacing and Clinical Electrophysiology</i> , <b>2004</b> , 27, 1099-104	1.6	17
63	Relationship between daily physical activity and ANS activity in patients with CHF. <i>Medicine and Science in Sports and Exercise</i> , <b>2005</b> , 37, 1257-63	1.2	17
62	Does Subjective Sleep Affect Bone Mineral Density in Older People with Minimal Health Disorders? The PROOF Cohort. <i>Journal of Clinical Sleep Medicine</i> , <b>2016</b> , 12, 1461-1469	3.1	17
61	Long-term exposure to traffic-related PM(10) and decreased heart rate variability: is the association restricted to subjects taking ACE inhibitors?. <i>Environment International</i> , <b>2012</b> , 48, 9-16	12.9	16
60	Incidental findings on brain magnetic resonance imaging in the elderly:the PROOF study. <i>Brain Imaging and Behavior</i> , <b>2017</b> , 11, 293-299	4.1	15
59	Leukoaraiosis and ambulatory blood pressure load in a healthy elderly cohort study: the PROOF study. <i>International Journal of Cardiology</i> , <b>2014</b> , 172, 59-63	3.2	15
58	Chronotropic incompetence to exercise separates low body weight from established anorexia nervosa. <i>Clinical Physiology and Functional Imaging</i> , <b>2004</b> , 24, 270-5	2.4	15
57	Autonomic maturation from birth to 2 years: normative values. <i>Heliyon</i> , <b>2019</b> , 5, e01300	3.6	14
56	Electronic cigarettes and health with special focus on cardiovascular effects: position paper of the European Association of Preventive Cardiology (EAPC). <i>European Journal of Preventive Cardiology</i> , <b>2020</b> , 2047487320941993	3.9	13
55	A Proof of Concept to Bridge the Gap between Mass Spectrometry Imaging, Protein Identification and Relative Quantitation: MSI~LC-MS/MS-LF. <i>Proteomes</i> , <b>2016</b> , 4,	4.6	13
54	Does obstructive sleep apnea affect exercise capacity and the hemodynamic response to exercise? An individual patient data and aggregate meta-analysis. <i>Sleep Medicine Reviews</i> , <b>2019</b> , 45, 42-53	10.2	12
53	Sleep-related breathing disorders and gait variability: a cross-sectional preliminary study. <i>BMC Pulmonary Medicine</i> , <b>2014</b> , 14, 140	3.5	12
52	Hemorheology and heart rate variability: is there a relationship?. <i>Clinical Hemorheology and Microcirculation</i> , <b>2008</b> , 38, 257-65	2.5	12
51	The adverse impact of obesity on heart rate variability is modified by a NFE2L2 gene variant: The SAPALDIA cohort. <i>International Journal of Cardiology</i> , <b>2017</b> , 228, 341-346	3.2	11
50	Effect of exercise training on heart rate variability in patients with obstructive sleep apnea: A randomized controlled trial. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2019</b> , 29, 1254-1262	4.6	11

49	Depressive symptoms and autonomic nervous system dysfunction in an elderly population-based study: the PROOF study. <i>Journal of Affective Disorders</i> , <b>2012</b> , 143, 153-9	6.6	11
48	Infant botulism intoxication and autonomic nervous system dysfunction. <i>Anaerobe</i> , <b>2009</b> , 15, 197-200	2.8	11
47	Elderly Patients with Ongoing Migraine Show Reduced Gray Matter Volume in Second Somatosensory Cortex. <i>Journal of Oral and Facial Pain and Headache</i> , <b>2018</b> , 32, 67-74	2.5	11
46	Acute moderate exercise does not further alter the autonomic nervous system activity in patients with sickle cell anemia. <i>PLoS ONE</i> , <b>2014</b> , 9, e95563	3.7	10
45	Pulmonary hypertension does not affect the autonomic nervous system dysfunction of sickle cell disease. <i>American Journal of Hematology</i> , <b>2009</b> , 84, 311-2	7.1	10
44	Autonomic cardiovascular adaptations to acute head-out water immersion, head-down tilt and supine position. <i>European Journal of Applied Physiology</i> , <b>2020</b> , 120, 337-347	3.4	10
43	Monitoring of ventilation during the early part of cardiopulmonary exercise testing: the first step to detect central sleep apnoea in chronic heart failure. <i>Sleep Medicine</i> , <b>2008</b> , 9, 411-7	4.6	8
42	Modulations of human autonomic function induced by positive pressure-assisted breathing. <i>Clinical Physiology and Functional Imaging</i> , <b>2006</b> , 26, 15-20	2.4	8
41	Alteration of baroreflex sensitivity in the elderly: the relationship with metabolic syndrome components. <i>International Journal of Cardiology</i> , <b>2012</b> , 155, 333-5	3.2	7
40	Relationship between acute chest syndrome and the sympatho-vagal balance in adults with hemoglobin SS disease; a case control study. <i>Clinical Hemorheology and Microcirculation</i> , <b>2013</b> , 53, 231-8	2.5	7
39	Use of high-frequency peak in spectral analysis of heart rate increment to improve screening of obstructive sleep apnoea. <i>Sleep and Breathing</i> , <b>2011</b> , 15, 837-43	3.1	7
38	Prevalence of clinical and ambulatory hypertension in a population of 65-year-olds: the PROOF study. <i>Journal of Clinical Hypertension</i> , <b>2010</b> , 12, 160-5	2.3	7
37	Even a Previous Light-Active Physical Activity at Work Still Reduces Late Myocardial Infarction and Stroke in Retired Adults Aged >65 Years by 32%: The PROOF Cohort Study. <i>Frontiers in Public Health</i> , <b>2019</b> , 7, 51	6	6
36	Sleep-related autonomic overactivity in a general elderly population and its relationship to cardiovascular regulation. <i>Heart and Vessels</i> , <b>2016</b> , 31, 46-51	2.1	6
35	Autonomic dysfunction in 2009 pandemic influenza A (H1N1) virus-related infection: a pediatric comparative study. <i>Autonomic Neuroscience: Basic and Clinical</i> , <b>2011</b> , 162, 77-83	2.4	6
34	Aortic root size and sleep apnea in elderly: a cohort study. <i>International Journal of Cardiology</i> , <b>2011</b> , 151, 101-2	3.2	6
33	Effects of strenuous exercise on autonomic nervous system activity in sickle cell trait carriers. <i>Autonomic Neuroscience: Basic and Clinical</i> , <b>2008</b> , 143, 68-72	2.4	6
32	Supra-Epiglottic Upper Airway Volume in Elderly Patients with Obstructive Sleep Apnea Hypopnea Syndrome. <i>PLoS ONE</i> , <b>2016</b> , 11, e0157720	3.7	6



31	Obstructive Sleep Apnea in Cardiac Rehabilitation Patients. <i>Journal of Clinical Sleep Medicine</i> , <b>2018</b> , 14, 1119-1126	3.1	6
30	Serum lipid profile, sleep-disordered breathing and blood pressure in the elderly: a 10-year follow-up of the PROOF-SYNAPSE cohort. <i>Sleep Medicine</i> , <b>2017</b> , 39, 14-22	4.6	5
29	ECG-derived respiration: A promising tool for sleep-disordered breathing diagnosis in chronic heart failure patients. <i>International Journal of Cardiology</i> , <b>2015</b> , 186, 7-9	3.2	5
28	Arrhythmic risk stratification after myocardial infarction using ambulatory electrocardiography signal averaging. <i>PACE - Pacing and Clinical Electrophysiology</i> , <b>2002</b> , 25, 791-8	1.6	5
27	Effects of gravitational acceleration on cardiovascular autonomic control in resting humans. <i>European Journal of Applied Physiology</i> , <b>2015</b> , 115, 1417-27	3.4	4
26	Heart rate variability and baroreflex sensitivity in bilateral lung transplant recipients. <i>Clinical Physiology and Functional Imaging</i> , <b>2018</b> , 38, 872-880	2.4	4
25	Relationship of cardiac involvement with arterial stiffness in a general population of 65-year-olds in the PROOF study. <i>Journal of Hypertension</i> , <b>2010</b> , 28, 389-94	1.9	4
24	Muscle Proteomic and Transcriptomic Profiling of Healthy Aging and Metabolic Syndrome in Men. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	4
23	Pre-participation cardiovascular evaluation in Pacific Island athletes. <i>International Journal of Cardiology</i> , <b>2019</b> , 278, 273-279	3.2	4
22	Volunteer and career French firefighters: Cardiovascular risk factors and cardiovascular risk assessment. <i>European Journal of Preventive Cardiology</i> , <b>2020</b> , 27, 107-109	3.9	4
21	Exercise electrocardiogram in middle-aged and older leisure time sportsmen: 100 exercise tests would be enough to identify one silent myocardial ischemia at risk for cardiac event. <i>International Journal of Cardiology</i> , <b>2018</b> , 257, 16-23	3.2	3
20	Sleep apnoea in the asymptomatic elderly: a real issue for the brain?. <i>European Respiratory Journal</i> , <b>2018</b> , 51,	13.6	3
19	Arterial stiffness alteration and obstructive sleep apnea in an elderly cohort free of cardiovascular event history: the PROOF cohort study. <i>Sleep and Breathing</i> , <b>2019</b> , 23, 201-208	3.1	3
18	Muscle Loss Associated Changes of Oxylipin Signatures During Biological Aging: An Exploratory Study From the PROOF Cohort. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2019</b> , 74, 608-615	6.4	3
17	Autonomic activation during sleep and new-onset ambulatory hypertension in the elderly. <i>International Journal of Cardiology</i> , <b>2012</b> , 155, 155-9	3.2	3
16	Comment on RAbnormal autonomic cardiac response to transient hypoxia in sickle cell anemiaR <i>Physiological Measurement</i> , <b>2008</b> , 29, L1-2	2.9	3
15	Forelimb postischaemic reactive hyperaemia is impaired by hypotensive low body negative pressure in healthy subjects. <i>Clinical Physiology and Functional Imaging</i> , <b>2006</b> , 26, 132-7	2.4	3
14	Sudomotor function and obesity-related risk factors in an elderly healthy population: The PROOF-Synapse Study. <i>International Journal of Cardiology</i> , <b>2015</b> , 186, 247-9	3.2	2

13	Causal analyses to study autonomic regulation during acute head-out water immersion, head-down tilt and supine position. <i>Experimental Physiology</i> , <b>2020</b> , 105, 1216-1222	2.4	2
12	Role of Gender and Physical Activity Level on Cardiovascular Risk Factors and Biomarkers of Oxidative Stress in the Elderly. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2020</b> , 2020, 1315471	6.7	2
11	Comments on the article: Occipital C1-C2 Neuromodulation Decreases Body Mass and Fat Stores and Modifies Activity of the Autonomic Nervous System in Morbidly Obese Patients--a Pilot Study. <i>Obesity Surgery</i> , <b>2016</b> , 26, 384-5	3.7	2
10	We need clear health messages about exercise. <i>BMJ, The</i> , <b>2016</b> , 355, i6252	5.9	2
9	Effect of Vagal Nerve Blockade on Moderate Obesity with an Obesity-Related Comorbid Condition: the ReCharge Study. <i>Obesity Surgery</i> , <b>2016</b> , 26, 2221-2222	3.7	1
8	Thoracic impedance, in association with oximetry, in a multi-modal ECG Holter system is useful for screening sleep disordered breathing. <i>International Journal of Cardiology</i> , <b>2013</b> , 163, 100-2	3.2	1
7	Is there a relation between autonomic nervous system activity and skin ageing? Evaluation of heart rate variability and skin ageing in 209 elderly subjects. <i>Experimental Dermatology</i> , <b>2017</b> , 26, 278-281	4	1
6	Fifteen Minutes Daily Brisk Walk May Be a New Best Target in Very Old Adults: Age Is Not an Excuse to Not Exercise. <i>Journal of the American Medical Directors Association</i> , <b>2018</b> , 19, 273-275	5.9	0
5	Leukoaraiosis and Gray Matter Volume Alteration in Older Adults: The PROOF Study.. <i>Frontiers in Neuroscience</i> , <b>2021</b> , 15, 747569	5.1	0
4	Insulin Resistance and Type 2 Diabetes in Asymptomatic Obstructive Sleep Apnea: Results of the PROOF Cohort Study After 7 Years of Follow-Up. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 650758	4.6	0
3	Resistance Training of Inspiratory Muscles After Coronary Artery Disease May Improve Obstructive Sleep Apnea in Outpatient Cardiac Rehabilitation: RICAOS Study.. <i>Frontiers in Physiology</i> , <b>2022</b> , 13, 846532	4.6	0
2	Effect of graded leg cycling on postischaemic forearm blood flow in healthy subjects. <i>Clinical Physiology and Functional Imaging</i> , <b>2008</b> , 28, 8-13	2.4	
1	Objective Non-irradiant Imaging of Fat Distribution: New Essential Tools for the Bariatric Surgery?. <i>Obesity Surgery</i> , <b>2016</b> , 26, 1940-1	3.7	