

Pedro Gomis

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

462
citations

1040056

9
h-index

752698

20
g-index

50
all docs

50
docs citations

50
times ranked

507
citing authors

#	ARTICLE	IF	CITATIONS
1	Validity of the Polar V800 monitor for measuring heart rate variability in mountain running route conditions. <i>European Journal of Applied Physiology</i> , 2018, 118, 669-677.	2.5	84
2	Analysis of Abnormal Intra-QRS Potentials. <i>Circulation</i> , 1997, 95, 1386-1393.	1.6	50
3	Analysis of abnormal signals within the QRS complex of the high-resolution electrocardiogram. <i>IEEE Transactions on Biomedical Engineering</i> , 1997, 44, 681-693.	4.2	49
4	ECG Beat Detection Using a Geometrical Matching Approach. <i>IEEE Transactions on Biomedical Engineering</i> , 2007, 54, 641-650.	4.2	48
5	Electrophysiological Effects of Selective Atrial Coronary Artery Occlusion in Humans. <i>Circulation</i> , 2016, 133, 2235-2242.	1.6	40
6	Multifractal and nonlinear assessment of autonomous nervous system response during transient myocardial ischaemia. <i>Physiological Measurement</i> , 2010, 31, 565-580.	2.1	24
7	Abnormal intra-QRS potentials associated with percutaneous transluminal coronary angiography-induced transient myocardial ischemia. <i>Journal of Electrocardiology</i> , 2006, 39, 282-289.	0.9	13
8	Characterization of the nonlinear content of the heart rate dynamics during myocardial ischemia. <i>Medical Engineering and Physics</i> , 2009, 31, 660-667.	1.7	13
9	Analysis of high-resolution ECG changes during percutaneous transluminal coronary angioplasty. <i>Journal of Electrocardiology</i> , 1995, 28, 39-40.	0.9	12
10	Monitoring blood potassium concentration in hemodialysis patients by quantifying T-wave morphology dynamics. <i>Scientific Reports</i> , 2021, 11, 3883.	3.3	11
11	Multivariate classification of Brugada syndrome patients based on autonomic response to exercise testing. <i>PLoS ONE</i> , 2018, 13, e0197367.	2.5	10
12	Non-linear dynamic analysis of the cardiac rhythm during transient myocardial ischemia. <i>Biomedizinische Technik</i> , 2006, 51, 178-181.	0.8	8
13	Assessment of autonomic control of the heart during transient myocardial ischemia. <i>Journal of Electrocardiology</i> , 2012, 45, 82-89.	0.9	8
14	Heart rate complexity analysis in Brugada syndrome during physical stress testing. <i>Physiological Measurement</i> , 2017, 38, 387-396.	2.1	8
15	Model-based analysis of the autonomic response to head-up tilt testing in Brugada syndrome. <i>Computers in Biology and Medicine</i> , 2018, 103, 82-92.	7.0	8
16	ECG-based monitoring of blood potassium concentration: Periodic versus principal component as lead transformation for biomarker robustness. <i>Biomedical Signal Processing and Control</i> , 2021, 68, 102719.	5.7	7
17	Abnormal intra-QRS signals and late potentials in the high resolution ECG associated with chagasic myocarditis. , 0, , .		6
18	Complexity of the autonomic heart rate control in coronary artery occlusion in patients with and without prior myocardial infarction. <i>Medical Engineering and Physics</i> , 2013, 35, 1070-1078.	1.7	6

#	ARTICLE	IF	CITATIONS
19	Evaluation of very low amplitude intra-QRS potentials during the initial minutes of acute transmural myocardial ischemia. <i>Journal of Electrocardiology</i> , 2014, 47, 512-519.	0.9	6
20	Recursive model identification for the analysis of the autonomic response to exercise testing in Brugada syndrome. <i>Artificial Intelligence in Medicine</i> , 2019, 97, 98-104.	6.5	6
21	Pathophysiological insights into abnormal intra-QRS signals in the high resolution ECG. , 0, , .		4
22	Analysis of a cardiovascular model for the study of the autonomic response of Brugada syndrome patients. , 2016, 2016, 5591-5594.		4
23	Probabilistic assessment of Autonomic Nervous System fluctuations during tilt table tests. , 2008, 2008, 4692-5.		3
24	Effect of acute myocardial ischemia on different high-frequency bandwidths and temporal regions of the QRS. , 2011, 2011, 7083-6.		3
25	Global Sensitivity Analysis of a Cardiovascular Model for the Study of the Autonomic Response to Head-up Tilt Testing. , 2018, 2018, 5458-5461.		3
26	Heart rate differences between symptomatic and asymptomatic Brugada syndrome patients at night. <i>Physiological Measurement</i> , 2018, 39, 065002.	2.1	3
27	Multiple Factor Analysis of the Autonomous Nervous System during PTCA. , 2005, 2006, 940-3.		2
28	Heart rate recovery in the diagnosis of diabetic Cardiovascular Autonomic Neuropathy. , 2007, , .		2
29	Comparison of methods to measure baroreflex sensitivity in Brugada syndrome. , 2015, , .		2
30	Sex Differences in Autonomic Response to Exercise Testing in Patients with Brugada Syndrome. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1065, 181-190.	1.6	2
31	Nonlinear T-Wave Time Warping-Based Sensing Model for Non-Invasive Personalised Blood Potassium Monitoring in Hemodialysis Patients: A Pilot Study. <i>Sensors</i> , 2021, 21, 2710.	3.8	2
32	Myocardial Ischemia Events Detection based on Support Vector Machines using QRS and ST Features. , 0, , .		2
33	Time-frequency Analysis of the Autonomic Response to Head-up Tilt Testing in Brugada Syndrome. , 0, , .		2
34	Potassium Monitoring from Multilead T-wave Morphology Changes during Hemodialysis: Periodic versus Principal Component Analysis. , 0, , .		2
35	T-Wave Morphology Changes as Surrogate for Blood Potassium Concentration in Hemodialysis Patients. , 0, , .		2
36	Weighted Time Warping Improves T-Wave Morphology Markers Clinical Significance. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 2787-2796.	4.2	2

#	ARTICLE	IF	CITATIONS
37	An Analysis Of The Mechanical Work Of Breathing Based On A Respiratory Impedance Model. , 0, , .		1
38	Comparison of high-resolution and standard ECG parameters of myocardial ischemia during PTCA. Journal of Electrocardiology, 1996, 29, 167.	0.9	1
39	Multiscale information analysis of the autonomous nervous system during myocardial ischemia. , 2007, , .		1
40	Analysis of Heart Rate Variability Indices after Selective Acute Atrial Ischemia in Humans. , 2017, , .		1
41	Application of the Entropy of Approximation for the Nonlinear Characterization in Patients with Chagas Disease. , 0, , .		1
42	Detection of abnormal cardiac activity using genetic descriptors. , 0, , .		0
43	Non-linear modeling analysis of the high-resolution ECG for estimating abnormal intra-QRS potentials. , 0, , .		0
44	Dynamical behavior of intra-QRS potentials during induced myocardial ischemia. , 0, , .		0
45	Probability trends in the assessment of cardiovascular autonomic fluctuations during cold pressor tests. , 2008, , .		0
46	Multifractal characterization of the autonomous nervous system during prolonged coronary artery occlusion. , 2009, 2009, 1808-11.		0
47	Response by Álvarez-García et al to Letters Regarding Article, "Electrophysiological Effects of Selective Atrial Coronary Artery Occlusion in Humans"• Circulation, 2016, 134, e401-e402.	1.6	0
48	Analysis of ECG in Athletes Running in Mountain Route Conditions. , 2018, , .		0
49	Multivariate Classification of Brugada Syndrome Patients Based on the Autonomic Response During Sleep, Exercise and Head-up Tilt Testing. , 0, , .		0
50	Weighted Time Warping T-Wave Analysis Robust to Delineation Errors: Clinical Implications. , 2021, , .		0