Roger AbÃ¤cherli

List of Publications by Year
in descending order

38 papers	743 citations	567281 15 h-index	552781 26 g-index
45 all docs	45 docs citations	45 times ranked	1246 citing authors

#	Article	IF	Citations
1	Incremental value of high-frequency QRS analysis for diagnosis and prognosis in suspected exercise-induced myocardial ischaemia. European Heart Journal: Acute Cardiovascular Care, 2020, 9, 836-847.	1.0	3
2	Man vs machine: Performance of manual vs automated electrocardiogram analysis for predicting the chamber of origin of idiopathic ventricular arrhythmia. Journal of Cardiovascular Electrophysiology, 2020, 31, 410-416.	1.7	3
3	Diagnostic and prognostic value of ST-segment deviation scores in suspected acute myocardial infarction. European Heart Journal: Acute Cardiovascular Care, 2020, 9, 857-868.	1.0	3
4	Prospective validation of current quantitative electrocardiographic criteria for ST-elevation myocardial infarction. International Journal of Cardiology, 2019, 292, 1-12.	1.7	27
5	Automated Identification and Localization of Premature Ventricle Contractions in Standard 12-Lead ECGs. , 2019, , .		0
6	Incremental diagnostic and prognostic value of the QRS-T angle, a 12-lead ECG marker quantifying heterogeneity of depolarization and repolarization, in patients with suspected non-ST-elevation myocardial infarction. International Journal of Cardiology, 2019, 277, 8-15.	1.7	18
7	Diagnostic value of the cardiac electrical biomarker, a novel <scp>ECG</scp> marker indicating myocardial injury, in patients with symptoms suggestive of nonâ€<scp>ST</scp>â€elevation myocardial infarction. Annals of Noninvasive Electrocardiology, 2018, 23, e12538.	1.1	9
8	Automatically computed ECG algorithm for the quantification of myocardial scar and the prediction of mortality. Clinical Research in Cardiology, 2018, 107, 824-835.	3.3	4
9	Diagnostic and prognostic value of QRS duration and QTc interval in patients with suspected myocardial infarction. Cardiology Journal, 2018, 25, 601-610.	1.2	13
10	Diagnostic and Prognostic Value of Lead aVR During Exercise Testing in Patients Suspected of Having Myocardial Ischemia. American Journal of Cardiology, 2017, 119, 959-966.	1.6	8
11	A real-time quality monitoring system for optimal recording of 12-lead resting ECG. Biomedical Signal Processing and Control, 2017, 34, 126-133.	5.7	14
12	Diagnostic and prognostic values of the V-index, a novel ECG marker quantifying spatial heterogeneity of ventricular repolarization, in patients with symptoms suggestive of non-ST-elevation myocardial infarction. International Journal of Cardiology, 2017, 236, 23-29.	1.7	16
13	Diagnostic value of ST-segment deviations during cardiac exercise stress testing: Systematic comparison of different ECG leads and time-points. International Journal of Cardiology, 2017, 238, 166-172.	1.7	7
14	Biometric verification by cross-correlation analysis of 12-lead ECG patterns: Ranking of the most reliable peripheral and chest leads. Journal of Electrocardiology, 2017, 50, 847-854.	0.9	25
15	Pseudo-real-time low-pass filter in ECG, self-adjustable to the frequency spectra of the waves. Medical and Biological Engineering and Computing, 2017, 55, 1579-1588.	2.8	20
16	A Correction Formula for the ST-Segment Measurements of AC-Coupled Electrocardiograms. IEEE Transactions on Biomedical Engineering, 2017, 64, 1834-1840.	4.2	3
17	Quantification of the first-order high-pass filter's influence on the automatic measurements of the electrocardiogram. Computer Methods and Programs in Biomedicine, 2017, 139, 163-169.	4.7	7
18	Digital DC-Reconstruction of AC-Coupled Electrophysiological Signals with a Single Inverting Filter. PLoS ONE, 2016, 11, e0150207.	2.5	6

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19	Real-time arrhythmia detection with supplementary ECG quality and pulse wave monitoring for the reduction of false alarms in ICUs. Physiological Measurement, 2016, 37, 1273-1297.	2.1	24
20	Intersubject variability and intrasubject reproducibility of 12-lead ECG metrics: Implications for human verification. Journal of Electrocardiology, 2016, 49, 784-789.	0.9	18
21	Inter-lead correlation analysis for automated detection of cable reversals in 12/16-lead ECG. Computer Methods and Programs in Biomedicine, 2016, 134, 31-41.	4.7	14
22	Relationships of electrocardiographic parameters with ambulatory hypertension in young and healthy adults. International Journal of Cardiology, 2016, 202, 300-304.	1.7	5
23	Direct comparison of cardiac troponin I and cardiac troponin T in the detection of exercise-induced myocardial ischemia. Clinical Biochemistry, 2016, 49, 421-432.	1.9	21
24	Advanced ECG in 2016: is there more than just a tracing?. Swiss Medical Weekly, 2016, 146, w14303.	1.6	17
25	Superiority of Classification Tree versus Cluster, Fuzzy and Discriminant Models in a Heartbeat Classification System. PLoS ONE, 2015, 10, e0140123.	2.5	27
26	Embroidered Electrode with Silver/Titanium Coating for Long-Term ECG Monitoring. Sensors, 2015, 15, 1750-1759.	3.8	102
27	Electrodes for Long-Term Esophageal Electrocardiography. IEEE Transactions on Biomedical Engineering, 2013, 60, 2576-2584.	4.2	11
28	Threshold-based system for noise detection in multilead ECG recordings. Physiological Measurement, 2012, 33, 1463-1477.	2.1	42
29	Twelve-lead electrocardiography in the young: Physiologic and pathologic abnormalities. Heart Rhythm, 2012, 9, 2018-2022.	0.7	20
30	Prevalence of Preexcitation in a Young Population of Male Swiss Conscripts. PACE - Pacing and Clinical Electrophysiology, 2011, 34, 949-953.	1.2	22
31	Independent component analysis-based artefact reduction: application to the electrocardiogram for improved magnetic resonance imaging triggering. Physiological Measurement, 2009, 30, 1381-1397.	2.1	24
32	Development of a toolbox for electrocardiogram-based interpretation of atrial fibrillation. Journal of Electrocardiology, 2009, 42, 517-521.	0.9	3
33	Meet the challenge of high-pass filter and ST-segment requirements with a DC-coupled digital electrocardiogram amplifier. Journal of Electrocardiology, 2009, 42, 574-579.	0.9	11
34	Correlation Relationship Assessment between Left Ventricular Hypertrophy Voltage Criteria and Body Mass Index in 41,806 Swiss Conscripts. Annals of Noninvasive Electrocardiology, 2009, 14, 381-388.	1.1	16
35	Prevalence of long and short QT in a young population of 41,767 predominantly male Swiss conscripts. Heart Rhythm, 2009, 6, 652-657.	0.7	110
36	Noise Cancellation Signal Processing Method and Computer System for Improved Real-Time Electrocardiogram Artifact Correction During MRI Data Acquisition. IEEE Transactions on Biomedical Engineering, 2007, 54, 630-640.	4.2	49

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37	Electrocardiogram on a chip: overview and first experiences of an electrocardiogram manufacturer of medium size. Journal of Electrocardiology, 2006, 39, S36-S40.	0.9	5
38	Improving automatic analysis of the electrocardiogram acquired during magnetic resonance imaging using magnetic field gradient artefact suppression. Journal of Electrocardiology, 2006, 39, S134-S139.	0.9	9