Roger Abächerli

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	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
2	Embroidered Electrode with Silver/Titanium Coating for Long-Term ECG Monitoring. Sensors, 2015, 15, 1750-1759.	3.8	102
3	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
4	Threshold-based system for noise detection in multilead ECG recordings. Physiological Measurement, 2012, 33, 1463-1477.	2.1	42
5	Superiority of Classification Tree versus Cluster, Fuzzy and Discriminant Models in a Heartbeat Classification System. PLoS ONE, 2015, 10, e0140123.	2.5	27
6	Prospective validation of current quantitative electrocardiographic criteria for ST-elevation myocardial infarction. International Journal of Cardiology, 2019, 292, 1-12.	1.7	27
7	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
8	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
9	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
10	Prevalence of Preexcitation in a Young Population of Male Swiss Conscripts. PACE - Pacing and Clinical Electrophysiology, 2011, 34, 949-953.	1.2	22
11	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
12	Twelve-lead electrocardiography in the young: Physiologic and pathologic abnormalities. Heart Rhythm, 2012, 9, 2018-2022.	0.7	20
13	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
14	Intersubject variability and intrasubject reproducibility of 12-lead ECG metrics: Implications for human verification. Journal of Electrocardiology, 2016, 49, 784-789.	0.9	18
15	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
16	Advanced ECG in 2016: is there more than just a tracing?. Swiss Medical Weekly, 2016, 146, w14303.	1.6	17
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	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
23	Electrodes for Long-Term Esophageal Electrocardiography. IEEE Transactions on Biomedical Engineering, 2013, 60, 2576-2584.	4.2	11
24	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
25	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
26	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
27	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
28	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
29	Digital DC-Reconstruction of AC-Coupled Electrophysiological Signals with a Single Inverting Filter. PLoS ONE, 2016, 11, e0150207.	2.5	6
30	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
31	Relationships of electrocardiographic parameters with ambulatory hypertension in young and healthy adults. International Journal of Cardiology, 2016, 202, 300-304.	1.7	5
32	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
33	Development of a toolbox for electrocardiogram-based interpretation of atrial fibrillation. Journal of Electrocardiology, 2009, 42, 517-521.	0.9	3
34	A Correction Formula for the ST-Segment Measurements of AC-Coupled Electrocardiograms. IEEE Transactions on Biomedical Engineering, 2017, 64, 1834-1840.	4.2	3
35	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
36	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

#	Article	IF	Citations
37	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
38	Automated Identification and Localization of Premature Ventricle Contractions in Standard 12-Lead ECGs. , 2019, , .		0