

Cees A Swenne

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121
papers

3,496
citations

31
h-index

57
g-index

133
ext. papers

4,070
ext. citations

3.4
avg, IF

4.73
L-index

#	Paper	IF	Citations
121	Low heart rate variability in a 2-minute rhythm strip predicts risk of coronary heart disease and mortality from several causes: the ARIC Study. Atherosclerosis Risk In Communities. <i>Circulation</i> , 2000 , 102, 1239-44	16.7	562
120	Heart rate variability from short electrocardiographic recordings predicts mortality from all causes in middle-aged and elderly men. The Zutphen Study. <i>American Journal of Epidemiology</i> , 1997 , 145, 899-908	3.8	379
119	Heart rate variability and first cardiovascular event in populations without known cardiovascular disease: meta-analysis and dose-response meta-regression. <i>Europace</i> , 2013 , 15, 742-9	3.9	245
118	Predicting ventricular arrhythmias in patients with ischemic heart disease: clinical application of the ECG-derived QRS-T angle. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2009 , 2, 548-54	6.4	95
117	Normal values of the electrocardiogram for ages 16-90 years. <i>Journal of Electrocardiology</i> , 2014 , 47, 914-21	2.1	93
116	Cardiovascular disease, risk factors and heart rate variability in the elderly general population: design and objectives of the CARdiovascular disease, Living and Ageing in Halle (CARLA) Study. <i>BMC Cardiovascular Disorders</i> , 2005 , 5, 33	2.3	84
115	Cardiovascular diseases, risk factors and short-term heart rate variability in an elderly general population: the CARLA study 2002-2006. <i>European Journal of Epidemiology</i> , 2009 , 24, 123-42	12.1	81
114	Effect of exercise training on autonomic derangement and neurohumoral activation in chronic heart failure. <i>Journal of Cardiac Failure</i> , 2007 , 13, 294-303	3.3	81
113	Exercise training and heart rate variability in older people. <i>Medicine and Science in Sports and Exercise</i> , 1999 , 31, 816-21	1.2	80
112	Occupational determinants of heart rate variability. <i>International Archives of Occupational and Environmental Health</i> , 2000 , 73, 255-62	3.2	72
111	Normal limits of the spatial QRS-T angle and ventricular gradient in 12-lead electrocardiograms of young adults: dependence on sex and heart rate. <i>Journal of Electrocardiology</i> , 2008 , 41, 648-55	1.4	68
110	Heart rate and heart rate variability as indexes of sympathovagal balance. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1994 , 266, H1565-71	5.2	67
109	Baroreflex sensitivity: mechanisms and measurement. <i>Netherlands Heart Journal</i> , 2013 , 21, 58-60	2.2	65
108	Reduction of QRS duration after pulmonary valve replacement in adult Fallot patients is related to reduction of right ventricular volume. <i>European Heart Journal</i> , 2005 , 26, 928-32	9.5	64
107	Tryptophan depletion affects heart rate variability and impulsivity in remitted depressed patients with a history of suicidal ideation. <i>Biological Psychiatry</i> , 2006 , 60, 507-14	7.9	62
106	Elucidation of the spatial ventricular gradient and its link with dispersion of repolarization. <i>Heart Rhythm</i> , 2006 , 3, 1092-9	6.7	59
105	Follow-up after pulmonary valve replacement in adults with tetralogy of Fallot: association between QRS duration and outcome. <i>Journal of the American College of Cardiology</i> , 2010 , 56, 1486-92	15.1	58

104	Genetic loci associated with heart rate variability and their effects on cardiac disease risk. <i>Nature Communications</i> , 2017 , 8, 15805	17.4	50
103	The importance of high-frequency paced breathing in spectral baroreflex sensitivity assessment. <i>Journal of Hypertension</i> , 2000 , 18, 1635-44	1.9	47
102	The influence of premature ventricular contractions on left ventricular function in asymptomatic children without structural heart disease: an echocardiographic evaluation. <i>International Journal of Cardiovascular Imaging</i> , 2003 , 19, 295-9		46
101	Baroreflex sensitivity, blood pressure buffering, and resonance: what are the links? Computer simulation of healthy subjects and heart failure patients. <i>Journal of Applied Physiology</i> , 2007 , 102, 1348-367	3.7	44
100	Changes in frequency of premature complexes and heart rate variability related to shift work. <i>Occupational and Environmental Medicine</i> , 2001 , 58, 678-81	2.1	41
99	Validation of ECG indices of ventricular repolarization heterogeneity: a computer simulation study. <i>Journal of Cardiovascular Electrophysiology</i> , 2005 , 16, 1097-103	2.7	40
98	The spatial QRS-T angle in the Frank vectorcardiogram: accuracy of estimates derived from the 12-lead electrocardiogram. <i>Journal of Electrocardiology</i> , 2010 , 43, 294-301	1.4	39
97	Relation of resting heart rate to prognosis in patients with idiopathic pulmonary arterial hypertension. <i>American Journal of Cardiology</i> , 2009 , 103, 1451-6	3	38
96	Dispersion of repolarization in cardiac resynchronization therapy. <i>Heart Rhythm</i> , 2005 , 2, 1286-93	6.7	35
95	Normal Values of Corrected Heart-Rate Variability in 10-Second Electrocardiograms for All Ages. <i>Frontiers in Physiology</i> , 2018 , 9, 424	4.6	34
94	Incremental prognostic value of an abnormal baseline spatial QRS-T angle in chronic dialysis patients. <i>Europace</i> , 2013 , 15, 290-6	3.9	34
93	Early changes in rat hearts with developing pulmonary arterial hypertension can be detected with three-dimensional electrocardiography. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 293, H1300-7	5.2	34
92	Effect of n-3 fatty acids on heart rate variability and baroreflex sensitivity in middle-aged subjects. <i>American Heart Journal</i> , 2003 , 146, E4	4.9	34
91	Exercise training increases oxygen uptake efficiency slope in chronic heart failure. <i>European Journal of Cardiovascular Prevention and Rehabilitation</i> , 2008 , 15, 140-4		32
90	Improved ECG detection of presence and severity of right ventricular pressure load validated with cardiac magnetic resonance imaging. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 294, H2150-7	5.2	29
89	Within-subject electrocardiographic differences at equal heart rates: role of the autonomic nervous system. <i>Pflugers Archiv European Journal of Physiology</i> , 2001 , 441, 717-24	4.6	26
88	Electrocardiographic detection of right ventricular pressure overload in patients with suspected pulmonary hypertension. <i>Journal of Electrocardiology</i> , 2014 , 47, 175-82	1.4	25
87	Vectorcardiographic diagnostic & prognostic information derived from the 12-lead electrocardiogram: Historical review and clinical perspective. <i>Journal of Electrocardiology</i> , 2015 , 48, 463-74	1.4	25

86	Reconstruction of standard 12-lead electrocardiograms from 12-lead electrocardiograms recorded with the Mason-Likar electrode configuration. <i>Journal of Electrocardiology</i> , 2008 , 41, 211-9	1.4	24
85	Long-term follow-up after pacemaker implantation in sick sinus syndrome. <i>PACE - Pacing and Clinical Electrophysiology</i> , 1981 , 4, 8-13	1.6	24
84	The role of insulin resistance in the association between body fat and autonomic function. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2015 , 25, 93-9	4.5	23
83	Supine and standing sympathovagal balance in athletes and controls. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1993 , 67, 164-7		23
82	Pattern recognition for ECG-monitoring: an interactive method for the classification of ventricular complexes. <i>Journal of Biomedical Informatics</i> , 1973 , 6, 150-60		23
81	Artificial Neural Network for Atrial Fibrillation Identification in Portable Devices. <i>Sensors</i> , 2020 , 20,	3.8	22
80	Body fat, especially visceral fat, is associated with electrocardiographic measures of sympathetic activation. <i>Obesity</i> , 2014 , 22, 1553-9	8	22
79	Correlation of heart rate variability with cardiac functional and metabolic variables in cyclists with training induced left ventricular hypertrophy. <i>Heart</i> , 1999 , 81, 612-7	5.1	22
78	Influence of the vectorcardiogram synthesis matrix on the power of the electrocardiogram-derived spatial QRS-T angle to predict arrhythmias in patients with ischemic heart disease and systolic left ventricular dysfunction. <i>Journal of Electrocardiology</i> , 2011 , 44, 410-5	1.4	21
77	Biventricular pacing in chronic heart failure acutely facilitates the arterial baroreflex. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 295, H755-60	5.2	20
76	Predictive power of T-wave alternans and of ventricular gradient hysteresis for the occurrence of ventricular arrhythmias in primary prevention cardioverter-defibrillator patients. <i>Journal of Electrocardiology</i> , 2011 , 44, 453-9	1.4	18
75	Comparison of standard versus orthogonal ECG leads for T-wave alternans identification. <i>Annals of Noninvasive Electrocardiology</i> , 2012 , 17, 130-40	1.5	17
74	(N-3) fatty acids do not affect electrocardiographic characteristics of healthy men and women. <i>Journal of Nutrition</i> , 2002 , 132, 3051-4	4.1	17
73	Difference vectors to describe dynamics of the ST segment and the ventricular gradient in acute ischemia. <i>Journal of Electrocardiology</i> , 2013 , 46, 302-11	1.4	14
72	Pulmonary valve replacement in tetralogy of Fallot improves the repolarization. <i>International Journal of Cardiology</i> , 2008 , 124, 301-6	3.2	14
71	Serial electrocardiography to detect newly emerging or aggravating cardiac pathology: a deep-learning approach. <i>BioMedical Engineering OnLine</i> , 2019 , 18, 15	4.1	13
70	Diagnosis and mortality prediction in pulmonary hypertension: the value of the electrocardiogram-derived ventricular gradient. <i>Journal of Electrocardiology</i> , 2012 , 45, 312-8	1.4	13
69	Role of the ECG in initial acute coronary syndrome triage: primary PCI regardless presence of ST elevation or of non-ST elevation. <i>Netherlands Heart Journal</i> , 2014 , 22, 484-90	2.2	13

68	Acute coronary syndrome with a totally occluded culprit artery: relation of the ST injury vector with ST-elevation and non-ST elevation ECGs. <i>Journal of Electrocardiology</i> , 2014 , 47, 183-90	1.4	13
67	Rehabilitation: Periodic somatosensory stimulation increases arterial baroreflex sensitivity in chronic heart failure patients. <i>International Journal of Cardiology</i> , 2011 , 152, 237-41	3.2	13
66	Epicardial reflection as a cause of incessant ventricular bigeminy. <i>PACE - Pacing and Clinical Electrophysiology</i> , 1988 , 11, 1036-44	1.6	13
65	Role of the vectorcardiogram-derived spatial QRS-T angle in diagnosing left ventricular hypertrophy. <i>Journal of Electrocardiology</i> , 2012 , 45, 154-60	1.4	12
64	Association of health behaviour with heart rate variability: a population-based study. <i>BMC Cardiovascular Disorders</i> , 2010 , 10, 58	2.3	12
63	Reproducibility and Comparability of Short- and Long-Term Heart Rate Variability Measures in Healthy Young Men. <i>Annals of Noninvasive Electrocardiology</i> , 1996 , 1, 287-292	1.5	12
62	Methods in heart rate variability analysis: which tachogram should we choose?. <i>Computer Methods and Programs in Biomedicine</i> , 1993 , 41, 1-8	6.9	12
61	Performance of ST and ventricular gradient difference vectors in electrocardiographic detection of acute myocardial ischemia. <i>Journal of Electrocardiology</i> , 2015 , 48, 498-504	1.4	11
60	Heart rate variability during repeated incremental head-up tilt discloses time dependence of individual autonomic dynamics. <i>Clinical Cardiology</i> , 1996 , 19, 62-8	3.3	11
59	Autonomic, ischaemic, circadian and rhythmic factors as causes of the spontaneous variability of ventricular arrhythmias. <i>European Heart Journal</i> , 1995 , 16, 674-81	9.5	11
58	Will future troponin measurement overrule the ECG as the primary diagnostic tool in patients with acute coronary syndrome?. <i>Journal of Electrocardiology</i> , 2013 , 46, 312-7	1.4	8
57	Comparison of model-based and expert-rule based electrocardiographic identification of the culprit artery in patients with acute coronary syndrome. <i>Journal of Electrocardiology</i> , 2015 , 48, 483-9	1.4	7
56	Cardiovascular disease, risk factors, and heart rate variability in the general population. <i>Journal of Electrocardiology</i> , 2007 , 40, S19-S21	1.4	7
55	Electrocardiographic detection of pulmonary hypertension in patients with systemic sclerosis using the ventricular gradient. <i>Journal of Electrocardiology</i> , 2016 , 49, 60-8	1.4	6
54	Electrical remodeling after percutaneous atrial septal defect closure in pediatric and adult patients. <i>International Journal of Cardiology</i> , 2019 , 285, 32-39	3.2	6
53	Normal values of the ventricular gradient and QRS-T angle, derived from the pediatric electrocardiogram. <i>Journal of Electrocardiology</i> , 2018 , 51, 490-495	1.4	6
52	Association between autonomic nervous dysfunction and cellular inflammation in end-stage renal disease. <i>BMC Cardiovascular Disorders</i> , 2016 , 16, 210	2.3	6
51	Position of ST-deviation measurements relative to the J-point: Impact for ischemia detection. <i>Journal of Electrocardiology</i> , 2017 , 50, 82-89	1.4	6

50	Feasibility of Laser Doppler Vibrometry as potential diagnostic tool for patients with abdominal aortic aneurysms. <i>Journal of Biomechanics</i> , 2013 , 46, 1113-20	2.9	6
49	Directionality and proportionality of the ST and ventricular gradient difference vectors during acute ischemia. <i>Journal of Electrocardiology</i> , 2014 , 47, 500-4	1.4	5
48	Correlated neurocardiologic and fitness changes in athletes interrupting training. <i>Medicine and Science in Sports and Exercise</i> , 2000 , 32, 571-5	1.2	5
47	Intravenous instrumentation alters the autonomic state in humans. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1996 , 73, 113-6		5
46	ECG criteria for assessment of mechanisms of ventricular arrhythmias: a review. <i>European Heart Journal</i> , 1987 , 8, 800-12	9.5	5
45	Assessment of mechanisms of ventricular arrhythmias from the surface ECG in 118 patients. <i>European Heart Journal</i> , 1987 , 8, 813-20	9.5	5
44	Heart rate variability and sympathovagal balance: pharmacological validation. <i>Netherlands Heart Journal</i> , 2003 , 11, 250-259	2.2	5
43	Prevalence of ECGs Exceeding Thresholds for ST-Segment-Elevation Myocardial Infarction in Apparently Healthy Individuals: The Role of Ethnicity. <i>Journal of the American Heart Association</i> , 2020 , 9, e015477	6	4
42	Heart Rate-Dependent Hysteresis of T-Wave Alternans in Primary Prevention ICD Patients. <i>Annals of Noninvasive Electrocardiology</i> , 2016 , 21, 460-9	1.5	4
41	Prognostic relevance of the interaction between short-term, metronome-paced heart rate variability, and inflammation: results from the population-based CARLA cohort study. <i>Europace</i> , 2017 , 19, 110-118	3.9	4
40	Beyond lipid lowering: pleiotropic effects of statins in heart failure. <i>Netherlands Heart Journal</i> , 2013 , 21, 406-7	2.2	4
39	Neurocardiological differences between musicians and control subjects. <i>Netherlands Heart Journal</i> , 2013 , 21, 183-8	2.2	4
38	Hypertensive stress increases dispersion of repolarization. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2004 , 27, 1603-9	1.6	4
37	Mechanisms of exercise-recovery hysteresis in the ECG: ISCE 2015 paper. <i>Journal of Electrocardiology</i> , 2015 , 48, 1006-9	1.4	3
36	Scientific STAFF and MALT meetings - past, present, and future. <i>Journal of Electrocardiology</i> , 2016 , 49, 259-62	1.4	3
35	ECG derived ventricular gradient exceeds echocardiography in the early detection of pulmonary hypertension in scleroderma patients. <i>International Journal of Cardiology</i> , 2018 , 273, 203-206	3.2	3
34	Neurocardiological basis for intraindividual ECG variability. <i>Journal of Electrocardiology</i> , 2002 , 35 Suppl, 239-42	1.4	3
33	A computerized, interactive coronary care unit monitoring system. <i>IEEE Transactions on Biomedical Engineering</i> , 1977 , 24, 63-7	5	3

32	An initial exploration of subtraction electrocardiography to detect myocardial ischemia in the prehospital setting. <i>Annals of Noninvasive Electrocardiology</i> , 2020 , 25, e12722	1.5	3
31	Diagnostic Accuracy Of The Electrocardiographic Decision Support - Myocardial Ischaemia (EDS-MI) Algorithm In Detection Of Acute Coronary Occlusion. <i>European Heart Journal: Acute Cardiovascular Care</i> , 2020 , 9, 13-25	4.3	3
30	Serial ECG Analysis: Absolute Rather Than Signed Changes in the Spatial QRS-T Angle Should Be Used to Detect Emerging Cardiac Pathology 2018 ,		3
29	Predictive Power of f99 Repolarization Index for the Occurrence of Ventricular Arrhythmias. <i>Annals of Noninvasive Electrocardiology</i> , 2016 , 21, 152-60	1.5	2
28	Subtraction electrocardiography: Detection of ischemia-induced ST displacement without the need to identify the J point. <i>Journal of Electrocardiology</i> , 2016 , 49, 316-22	1.4	2
27	Normal Values of QT Variability in 10-s Electrocardiograms for all Ages. <i>Frontiers in Physiology</i> , 2019 , 10, 1272	4.6	2
26	The Olson method for detection of acute myocardial ischemia in patients with coronary occlusion. <i>Journal of Electrocardiology</i> , 2017 , 50, 74-81	1.4	2
25	Dependency of exercise-induced T-wave alternans predictive power for the occurrence of ventricular arrhythmias from heart rate. <i>Annals of Noninvasive Electrocardiology</i> , 2015 , 20, 345-54	1.5	2
24	Oxygen uptake in heart failure: how much, how fast?. <i>Netherlands Heart Journal</i> , 2009 , 17, 224-5	2.2	2
23	Gated SPECT: what's the ideal method to measure LVEF?. <i>International Journal of Cardiovascular Imaging</i> , 2008 , 24, 807-10	2.5	2
22	Similar orthostatic defense in active, healthy young adult and late middle-aged men. <i>American Journal of Cardiology</i> , 1995 , 76, 922-7	3	2
21	Sympathovagal balance and graded orthostatic tilt. <i>Circulation</i> , 1995 , 91, 2292-3	16.7	2
20	Dr. Galen Wagner (1939-2016) as an Academic Writer: An Overview of his Peer-reviewed Scientific Publications. <i>Journal of Electrocardiology</i> , 2017 , 50, 47-73	1.4	1
19	Longitudinal association of short-term, metronome-paced heart rate variability and echocardiographically assessed cardiac structure at a 4-year follow-up: results from the prospective, population-based CARLA cohort. <i>Europace</i> , 2017 , 19, 2027-2035	3.9	1
18	Intra-individual ECG changes over 25 years: How long can elective ECGs be used as reference for acute ischemia detection?. <i>Journal of Electrocardiology</i> , 2015 , 48, 490-7	1.4	1
17	Exercise-resembling effects of periodic somatosensory stimulation in heart failure. <i>International Journal of Cardiology</i> , 2013 , 168, 3327-33	3.2	1
16	Biventricular pacing and transmural dispersion of the repolarization. <i>Europace</i> , 2007 , 9, 48-9; author reply 61	3.9	1
15	Online medical literature consultation habits of academic teaching physicians in the EU and CIS countries: a cross-sectional study. <i>PLoS ONE</i> , 2012 , 7, e44302	3.7	1

14	Rhythmic sensory stimulation improves fitness by conditioning the autonomic nervous system. <i>Netherlands Heart Journal</i> , 2002 , 10, 43-47	2.2	1
13	Lack of diagnostic utility of the ECG-derived ventricular gradient in patients with suspected acute pulmonary embolism. <i>Journal of Electrocardiology</i> , 2020 , 61, 141-146	1.4	1
12	Galen Wagner, M.D., Ph.D. (1939-2016) as international mentor of young investigators in electrocardiology. <i>Journal of Electrocardiology</i> , 2017 , 50, 21-46	1.4	0
11	Enhanced adaptive matched filter for automated identification and measurement of electrocardiographic alternans. <i>Biomedical Signal Processing and Control</i> , 2021 , 68, 102619	4.9	0
10	Atherosclerosis at your fingertips?. <i>Netherlands Heart Journal</i> , 2015 , 23, 466-467	2.2	
9	Psychosocial distress under pressure. <i>Netherlands Heart Journal</i> , 2014 , 22, 70	2.2	
8	Diverging opinions about shared decisions. <i>Netherlands Heart Journal</i> , 2014 , 22, 334-5	2.2	
7	Response to Dr. MadiasRcomments on "T-wave alternans by a 16-lead electrocardiogram system". <i>Annals of Noninvasive Electrocardiology</i> , 2013 , 18, 100-1	1.5	
6	Detection of elevated pulmonary pressures by the ECG-derived ventricular gradient: A comparison of conversion matrices in patients with suspected pulmonary hypertension. <i>Journal of Electrocardiology</i> , 2017 , 50, 115-122	1.4	
5	Cardiovascular dynamics in ischemic cardiomyopathy during exercise. <i>International Journal of Cardiovascular Imaging</i> , 2010 , 26, 161-4	2.5	
4	Pacemaking in the AV node. <i>Heart Rhythm</i> , 2007 , 4, 1336-7	6.7	
3	Cardiac neural changes before vasovagal syncope. <i>Circulation</i> , 1999 , 100, e67	16.7	
2	Heart rate variability, baroreflex sensitivity, and cardiac vagal tone. <i>Clinical Science</i> , 1996 , 91 Suppl, 113-5		
1	Repeated Structuring & Learning Procedure for Detection of Myocardial Ischemia: a Robustness Analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2021 , 2021, 467-470	0.9	