Cees A Swenne

List of Publications by Year
in descending order

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Version: 2024-02-01

131 papers	4,626 citations	117625 34 h-index	106344 65 g-index
133 all docs	133 docs citations	133 times ranked	5444 citing authors

#	Article	IF	Citations
1	Low Heart Rate Variability in a 2-Minute Rhythm Strip Predicts Risk of Coronary Heart Disease and Mortality From Several Causes. Circulation, 2000, 102, 1239-1244.	1.6	701
2	Heart Rate Variability from Short Electrocardiographic Recordings Predicts Mortality from All Causes in Middle-aged and Elderly Men: The Zutphen Study. American Journal of Epidemiology, 1997, 145, 899-908.	3.4	430
3	Heart rate variability and first cardiovascular event in populations without known cardiovascular disease: meta-analysis and doseâ€“response meta-regression. Europace, 2013, 15, 742-749.	1.7	357
4	Normal values of the electrocardiogram for ages 16â€“90years. Journal of Electrocardiology, 2014, 47, 914-921.	0.9	136
5	Predicting Ventricular Arrhythmias in Patients With Ischemic Heart Disease. Circulation: Arrhythmia and Electrophysiology, 2009, 2, 548-554.	4.8	128
6	Heart rate and heart rate variability as indexes of sympathovagal balance. American Journal of Physiology - Heart and Circulatory Physiology, 1994, 266, H1565-H1571.	3.2	115
7	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. BMC Cardiovascular Disorders, 2005, 5, 33.	1.7	102
8	Baroreflex sensitivity: mechanisms and measurement. Netherlands Heart Journal, 2013, 21, 58-60.	0.8	100
9	Exercise training and heart rate variability in older people. Medicine and Science in Sports and Exercise, 1999, 31, 816-821.	0.4	98
10	Occupational determinants of heart rate variability. International Archives of Occupational and Environmental Health, 2000, 73, 255-262.	2.3	96
11	Effect of Exercise Training on Autonomic Derangement and Neurohumoral Activation in Chronic Heart Failure. Journal of Cardiac Failure, 2007, 13, 294-303.	1.7	95
12	Genetic loci associated with heart rate variability and their effects on cardiac disease risk. Nature Communications, 2017, 8, 15805.	12.8	95
13	Cardiovascular diseases, risk factors and short-term heart rate variability in an elderly general population: the CARLA study 2002â€“2006. European Journal of Epidemiology, 2009, 24, 123-142.	5.7	94
14	Normal limits of the spatial QRS-T angle and ventricular gradient in 12-lead electrocardiograms of young adults: dependence on sex and heart rate. Journal of Electrocardiology, 2008, 41, 648-655.	0.9	86
15	Reduction of QRS duration after pulmonary valve replacement in adult Fallot patients is related to reduction of right ventricular volume. European Heart Journal, 2005, 26, 928-932.	2.2	82
16	Normal Values of Corrected Heart-Rate Variability in 10-Second Electrocardiograms for All Ages. Frontiers in Physiology, 2018, 9, 424.	2.8	73
17	Follow-Up After Pulmonary Valve Replacement in Adults With Tetralogy of Fallot. Journal of the American College of Cardiology, 2010, 56, 1486-1492.	2.8	72
18	Tryptophan Depletion Affects Heart Rate Variability and Impulsivity in Remitted Depressed Patients with a History of Suicidal Ideation. Biological Psychiatry, 2006, 60, 507-514.	1.3	71

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19	Elucidation of the spatial ventricular gradient and its link with dispersion of repolarization. Heart Rhythm, 2006, 3, 1092-1099.	0.7	70
20	The importance of high-frequency paced breathing in spectral baroreflex sensitivity assessment. Journal of Hypertension, 2000, 18, 1635-1644.	0.5	69
21	Changes in frequency of premature complexes and heart rate variability related to shift work. Occupational and Environmental Medicine, 2001, 58, 678-681.	2.8	64
22	Baroreflex sensitivity, blood pressure buffering, and resonance: what are the links? Computer simulation of healthy subjects and heart failure patients. Journal of Applied Physiology, 2007, 102, 1348-1356.	2.5	59
23	The influence of premature ventricular contractions on left ventricular function in asymptomatic children without structural heart disease: an echocardiographic evaluation. International Journal of Cardiovascular Imaging, 2003, 19, 295-299.	0.6	55
24	Validation of ECG Indices of Ventricular Repolarization Heterogeneity: A Computer Simulation Study. Journal of Cardiovascular Electrophysiology, 2005, 16, 1097-1103.	1.7	48
25	Artificial Neural Network for Atrial Fibrillation Identification in Portable Devices. Sensors, 2020, 20, 3570.	3.8	48
26	Improved ECG detection of presence and severity of right ventricular pressure load validated with cardiac magnetic resonance imaging. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H2150-H2157.	3.2	44
27	Relation of Resting Heart Rate to Prognosis in Patients With Idiopathic Pulmonary Arterial Hypertension. American Journal of Cardiology, 2009, 103, 1451-1456.	1.6	44
28	The spatial QRS-T angle in the Frank vectorcardiogram: accuracy of estimates derived from the 12-lead electrocardiogram. Journal of Electrocardiology, 2010, 43, 294-301.	0.9	43
29	Vectorcardiographic diagnostic & prognostic information derived from the 12â€lead electrocardiogram: Historical review and clinical perspective. Journal of Electrocardiology, 2015, 48, 463-475.	0.9	43
30	Early changes in rat hearts with developing pulmonary arterial hypertension can be detected with three-dimensional electrocardiography. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H1300-H1307.	3.2	41
31	Dispersion of repolarization in cardiac resynchronization therapy. Heart Rhythm, 2005, 2, 1286-1293.	0.7	39
32	Incremental prognostic value of an abnormal baseline spatial QRS-T angle in chronic dialysis patients. Europace, 2013, 15, 290-296.	1.7	39
33	Exercise training increases oxygen uptake efficiency slope in chronic heart failure. European Journal of Cardiovascular Prevention and Rehabilitation, 2008, 15, 140-144.	2.8	38
34	Effect of n-3 fatty acids on heart rate variability and baroreflex sensitivity in middle-aged subjects. American Heart Journal, 2003, 146, 344.	2.7	37
35	Electrocardiographic detection of right ventricular pressure overload in patients with suspected pulmonary hypertension. Journal of Electrocardiology, 2014, 47, 175-182.	0.9	34
36	Serial electrocardiography to detect newly emerging or aggravating cardiac pathology: a deep-learning approach. BioMedical Engineering OnLine, 2019, 18, 15.	2.7	32

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37	Within-subject electrocardiographic differences at equal heart rates: role of the autonomic nervous system. Pflugers Archiv European Journal of Physiology, 2001, 441, 717-724.	2.8	30
38	Supine and standing sympathovagal balance in athletes and controls. European Journal of Applied Physiology and Occupational Physiology, 1993, 67, 164-167.	1.2	29
39	The role of insulin resistance in the association between body fat and autonomic function. Nutrition, Metabolism and Cardiovascular Diseases, 2015, 25, 93-99.	2.6	29
40	Correlation of heart rate variability with cardiac functional and metabolic variables in cyclists with training induced left ventricular hypertrophy. Heart, 1999, 81, 612-617.	2.9	28
41	Reconstruction of standard 12-lead electrocardiograms from 12-lead electrocardiograms recorded with the Mason-Likar electrode configuration. Journal of Electrocardiology, 2008, 41, 211-219.	0.9	28
42	Body fat, especially visceral fat, is associated with electrocardiographic measures of sympathetic activation. Obesity, 2014, 22, 1553-1559.	3.0	28
43	Biventricular pacing in chronic heart failure acutely facilitates the arterial baroreflex. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 295, H755-H760.	3.2	27
44	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. Journal of Electrocardiology, 2011, 44, 410-415.	0.9	27
45	Pattern recognition for ECG-monitoring: An interactive method for the classification of ventricular complexes. Journal of Biomedical Informatics, 1973, 6, 150-160.	0.7	25
46	Long-Term Follow-up after Pacemaker Implantation in Sick Sinus Syndrome. PACE - Pacing and Clinical Electrophysiology, 1981, 4, 8-13.	1.2	24
47	Comparison of Standard versus Orthogonal ECG Leads for Tâ€Wave Alternans Identification. Annals of Noninvasive Electrocardiology, 2012, 17, 130-140.	1.1	23
48	Difference vectors to describe dynamics of the ST segment and the ventricular gradient in acute ischemia. Journal of Electrocardiology, 2013, 46, 302-311.	0.9	22
49	Association of health behaviour with heart rate variability: a population-based study. BMC Cardiovascular Disorders, 2010, 10, 58.	1.7	21
50	Predictive power of T-wave alternans and of ventricular gradient hysteresis for the occurrence of ventricular arrhythmias in primary prevention cardioverter-defibrillator patients. Journal of Electrocardiology, 2011, 44, 453-459.	0.9	21
51	Role of the ECG in initial acute coronary syndrome triage: primary PCI regardless presence of ST elevation or of non-ST elevation. Netherlands Heart Journal, 2014, 22, 484-490.	0.8	21
52	Diagnosis and mortality prediction in pulmonary hypertension: the value of the electrocardiogram-derived ventricular gradient. Journal of Electrocardiology, 2012, 45, 312-318.	0.9	19
53	Acute coronary syndrome with a totally occluded culprit artery: relation of the ST injury vector with ST-elevation and non-ST elevation ECGs. Journal of Electrocardiology, 2014, 47, 183-190.	0.9	19
54	Methods in heart rate variability analysis: which tachogram should we choose?. Computer Methods and Programs in Biomedicine, 1993, 41, 1-8.	4.7	18

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55	(n-3) Fatty Acids Do Not Affect Electrocardiographic Characteristics of Healthy Men and Women. Journal of Nutrition, 2002, 132, 3051-3054.	2.9	18
56	Pulmonary valve replacement in tetralogy of Fallot improves the repolarization. International Journal of Cardiology, 2008, 124, 301-306.	1.7	18
57	Role of the vectorcardiogram-derived spatial QRS-T angle in diagnosing left ventricular hypertrophy. Journal of Electrocardiology, 2012, 45, 154-160.	0.9	16
58	Epicardial Reflection as a Cause of Incessant Ventricular Bigeminy. PACE - Pacing and Clinical Electrophysiology, 1988, 11, 1036-1044.	1.2	15
59	Cardiovascular disease, risk factors, and heart rate variability in the general population. Journal of Electrocardiology, 2007, 40, S19-S21.	0.9	15
60	Rehabilitation: Periodic somatosensory stimulation increases arterial baroreflex sensitivity in chronic heart failure patients. International Journal of Cardiology, 2011, 152, 237-241.	1.7	15
61	Performance of ST and ventricular gradient difference vectors in electrocardiographic detection of acute myocardial ischemia. Journal of Electrocardiology, 2015, 48, 498-504.	0.9	15
62	Autonomic, ischaemic, circadian and rhythmic factors as causes of the spontaneous variability of ventricular, arrhythmias. European Heart Journal, 1995, 16, 674-681.	2.2	14
63	Reproducibility and Comparability of Short- and Long-Term Heart Rate Variability Measures in Healthy Young Men. Annals of Noninvasive Electrocardiology, 1996, 1, 287-292.	1.1	14
64	This section edited by Marek Malik, M. D. Heart rate variability during repeated incremental headâ€up tilt discloses time dependence of individual autonomic dynamics. Clinical Cardiology, 1996, 19, 62-68.	1.8	12
65	Prevalence of ECGs Exceeding Thresholds for STâ€Segmentâ€“Elevation Myocardial Infarction in Apparently Healthy Individuals: The Role of Ethnicity. Journal of the American Heart Association, 2020, 9, e015477.	3.7	12
66	Feasibility of Laser Doppler Vibrometry as potential diagnostic tool for patients with abdominal aortic aneurysms. Journal of Biomechanics, 2013, 46, 1113-1120.	2.1	10
67	Will future troponin measurement overrule the ECG as the primary diagnostic tool in patients with acute coronary syndrome?. Journal of Electrocardiology, 2013, 46, 312-317.	0.9	10
68	Position of ST-deviation measurements relative to the J-point: Impact for ischemia detection. Journal of Electrocardiology, 2017, 50, 82-89.	0.9	10
69	ECG derived ventricular gradient exceeds echocardiography in the early detection of pulmonary hypertension in scleroderma patients. International Journal of Cardiology, 2018, 273, 203-206.	1.7	10
70	An initial exploration of subtraction electrocardiography to detect myocardial ischemia in the prehospital setting. Annals of Noninvasive Electrocardiology, 2020, 25, e12722.	1.1	9
71	Comparison of model-based and expert-rule based electrocardiographic identification of the culprit artery in patients with acute coronary syndrome. Journal of Electrocardiology, 2015, 48, 483-489.	0.9	8
72	Association between autonomic nervous dysfunction and cellular inflammation in end-stage renal disease. BMC Cardiovascular Disorders, 2016, 16, 210.	1.7	8

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73	Electrocardiographic detection of pulmonary hypertension in patients with systemic sclerosis using the ventricular gradient. Journal of Electrocardiology, 2016, 49, 60-68.	0.9	8
74	Electrical remodeling after percutaneous atrial septal defect closure in pediatric and adult patients. International Journal of Cardiology, 2019, 285, 32-39.	1.7	8
75	Intravenous instrumentation alters the autonomic state in humans. European Journal of Applied Physiology and Occupational Physiology, 1996, 73, 113-116.	1.2	7
76	Directionality and proportionality of the ST and ventricular gradient difference vectors during acute ischemia. Journal of Electrocardiology, 2014, 47, 500-504.	0.9	7
77	Normal values of the ventricular gradient and QRS-T angle, derived from the pediatric electrocardiogram. Journal of Electrocardiology, 2018, 51, 490-495.	0.9	7
78	ECG criteria for assessment of mechanisms of ventricular arrhythmias: A review. European Heart Journal, 1987, 8, 800-812.	2.2	6
79	Correlated neurocardiologic and fitness changes in athletes interrupting training. Medicine and Science in Sports and Exercise, 2000, 32, 571-575.	0.4	6
80	Neurocardiological differences between musicians and control subjects. Netherlands Heart Journal, 2013, 21, 183-188.	0.8	6
81	Prognostic relevance of the interaction between short-term, metronome-paced heart rate variability, and inflammation: results from the population-based CARLA cohort study. Europace, 2017, 19, euv333.	1.7	6
82	Assessment of mechanisms of ventricular arrhythmias from the surface ECG in 118 patients. European Heart Journal, 1987, 8, 813-820.	2.2	5
83	Neurocardiological basis for intraindividual ECG variability. Journal of Electrocardiology, 2002, 35, 239-242.	0.9	5
84	Hypertensive Stress Increases Dispersion of Repolarization. PACE - Pacing and Clinical Electrophysiology, 2004, 27, 1603-1609.	1.2	5
85	Beyond lipid lowering: pleiotropic effects of statins in heart failure. Netherlands Heart Journal, 2013, 21, 406-407.	0.8	5
86	Heart Rateâ€“Dependent Hysteresis of Tâ€Wave Alternans in Primary Prevention ICD Patients. Annals of Noninvasive Electrocardiology, 2016, 21, 460-469.	1.1	5
87	Scientific STAFF and MALT meetings â€” past, present, and future. Journal of Electrocardiology, 2016, 49, 259-262.	0.9	5
88	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. Europace, 2017, 19, 2027-2035.	1.7	5
89	Serial ECG Analysis: Absolute Rather Than Signed Changes in the Spatial QRS-T Angle Should Be Used to Detect Emerging Cardiac Pathology. , 0, , .		5
90	Diagnostic Accuracy Of The Electrocardiographic Decision Support â€“ Myocardial Ischaemia (EDS-MI) Algorithm In Detection Of Acute Coronary Occlusion. European Heart Journal: Acute Cardiovascular Care, 2020, 9, 13-25.	1.0	5

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91	Heart rate variability and sympathovagal balance: pharmacological validation. Netherlands Heart Journal, 2003, 11, 250-259.	0.8	5
92	Similar orthostatic defense in active, healthy young adult and late middle-aged men. American Journal of Cardiology, 1995, 76, 922-927.	1.6	4
93	Gated SPECT: Whatâ€™s the ideal method to measure LVEF?. International Journal of Cardiovascular Imaging, 2008, 24, 807-810.	1.5	4
94	Dependency of Exerciseâ€Induced Tâ€Wave Alternans Predictive Power for the Occurrence of Ventricular Arrhythmias from Heart Rate. Annals of Noninvasive Electrocardiology, 2015, 20, 345-354.	1.1	4
95	Predictive Power of f99 Repolarization Index for the Occurrence of Ventricular Arrhythmias. Annals of Noninvasive Electrocardiology, 2016, 21, 152-160.	1.1	4
96	Normal Values of QT Variability in 10-s Electrocardiograms for all Ages. Frontiers in Physiology, 2019, 10, 1272.	2.8	4
97	Enhanced adaptive matched filter for automated identification and measurement of electrocardiographic alternans. Biomedical Signal Processing and Control, 2021, 68, 102619.	5.7	4
98	A Computerized, Interactive Coronary Care Unit Monitoring System. IEEE Transactions on Biomedical Engineering, 1977, BME-24, 63-67.	4.2	3
99	Oxygen uptake in heart failure: how much, how fast?. Netherlands Heart Journal, 2009, 17, 224-225.	0.8	3
100	Intra-individual ECG changes over 25 years: How long can elective ECGs be used as reference for acute ischemia detection?. Journal of Electrocardiology, 2015, 48, 490-497.	0.9	3
101	Mechanisms of exercise-recovery hysteresis in the ECG. Journal of Electrocardiology, 2015, 48, 1006-1009.	0.9	3
102	The Olson method for detection of acute myocardial ischemia in patients with coronary occlusion. Journal of Electrocardiology, 2017, 50, 74-81.	0.9	3
103	Online Medical Literature Consultation Habits of Academic Teaching Physicians in the EU and CIS Countries: A Cross-Sectional Study. PLoS ONE, 2012, 7, e44302.	2.5	3
104	Spatial Distribution and Orientation of a Single Moving Dipole Computed in 12-Lead ECGs in a Healthy Population Using a Spherically Bounded Model. , 0, , .		3
105	Repeated Structuring & Learning Procedure for Detection of Myocardial Ischemia: a Robustness Analysis. , 2021, 2021, 467-470.		3
106	Sympathovagal balance and graded orthostatic tilt. Circulation, 1995, 91, 2292-3.	1.6	3
107	Exercise-resembling effects of periodic somatosensory stimulation in heart failure. International Journal of Cardiology, 2013, 168, 3327-3333.	1.7	2
108	Subtraction electrocardiography: Detection of ischemia-induced ST displacement without the need to identify the J point. Journal of Electrocardiology, 2016, 49, 316-322.	0.9	2

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109	Dr. Galen Wagner (1939-2016) as an Academic Writer: An Overview of his Peer-reviewed Scientific Publications. Journal of Electrocardiology, 2017, 50, 47-73.	0.9	2
110	Galen Wagner, M.D., Ph.D. (1939â€“2016) as international mentor of young investigators in electrocardiology. Journal of Electrocardiology, 2017, 50, 21-46.	0.9	2
111	Progression towards Heart Failure after Myocardial Infarction Is Accompanied by a Change in the Spatial QRS-T Angle. , 0, , .		2
112	Lack of diagnostic utility of the ECG-derived ventricular gradient in patients with suspected acute pulmonary embolism. Journal of Electrocardiology, 2020, 61, 141-146.	0.9	2
113	Biventricular pacing and transmural dispersion of the repolarization. Europace, 2007, 9, 48-49.	1.7	1
114	The dependence of the STEMI classification on the position of ST-deviation measurement instant relative to the J point. , 2015, , .		1
115	T-wave alternans hysteresis on heart rate. , 2015, , .		1
116	Improved STEMI diagnosis by serial ECG analysis. Journal of Electrocardiology, 2015, 48, 99-100.	0.9	1
117	Special issue of the Journal of Electrocardiology to commemorate Dr. Galen Wagner (1939â€“2016). Journal of Electrocardiology, 2017, 50, 1-2.	0.9	1
118	Rhythmic sensory stimulation improves fitness by conditioning the autonomic nervous system. Netherlands Heart Journal, 2002, 10, 43-47.	0.8	1
119	Heart Rate Variability, Baroreflex Sensitivity, and Cardiac Vagal Tone. Clinical Science, 1996, 91, 113-115.	0.0	0
120	Cardiac Neural Changes Before Vasovagal Syncope. Circulation, 1999, 100, e67.	1.6	0
121	Pacemaking in the AV node. Heart Rhythm, 2007, 4, 1336-1337.	0.7	0
122	Cardiovascular dynamics in ischemic cardiomyopathy during exercise. International Journal of Cardiovascular Imaging, 2010, 26, 161-164.	1.5	0
123	Response to Dr. Madiasâ€™ comments on â€œTâ€Wave Alternans by a 16â€Lead Electrocardiogram Systemâ€• Annals of Noninvasive Electrocardiology, 2013, 18, 100-101.	1.1	0
124	Psychosocial distress under pressure. Netherlands Heart Journal, 2014, 22, 70-70.	0.8	0
125	Diverging opinions about shared decisions. Netherlands Heart Journal, 2014, 22, 334-335.	0.8	0
126	Electrocardiographic detection and monitoring of pulmonary Hypertension. , 2015, , .		0

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127	Logistic regression to enhance risk assessment by left ventricular ejection fraction and f99. , 2015, , .		0
128	Atherosclerosis at your fingertips?. Netherlands Heart Journal, 2015, 23, 466-467.	0.8	0
129	MALT/STAFF 2015 symposium. Journal of Electrocardiology, 2016, 49, 752.	0.9	0
130	Detection of elevated pulmonary pressures by the ECG-derived ventricular gradient: A comparison of conversion matrices in patients with suspected pulmonary hypertension. Journal of Electrocardiology, 2017, 50, 115-122.	0.9	0
131	Validation of the Ventricular Gradient Comparing Sinus Beats and Ectopic Beats. , 2021, , .		0