Peter M Van Dam

List of Publications by Year
in descending order

72	1,097	516215 16	476904 29
papers	citations	h-index	g-index

82	82	82	966
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Non-Invasive Imaging of Cardiac Activation and Recovery. Annals of Biomedical Engineering, 2009, 37, 1739-1756.	1.3	141
2	Validation and Opportunities of Electrocardiographic Imaging: From Technical Achievements to Clinical Applications. Frontiers in Physiology, 2018, 9, 1305.	1.3	89
3	Evaluating strict and conventional left bundle branch block criteria using electrocardiographic simulations. Europace, 2013, 15, 1816-1821.	0.7	61
4	Experimental Data and Geometric Analysis Repositoryâ€"EDGAR. Journal of Electrocardiology, 2015, 48, 975-981.	0.4	58
5	Early repolarization in mice causes overestimation of ventricular activation time by the QRS duration. Cardiovascular Research, 2013, 97, 182-191.	1.8	49
6	Quantitative localization of premature ventricular contractions using myocardial activation ECGI from the standard 12-lead electrocardiogram. Journal of Electrocardiology, 2013, 46, 574-579.	0.4	45
7	Mechanoelectrical coupling enhances initiation and affects perpetuation of atrial fibrillation during acute atrial dilation. Heart Rhythm, 2011, 8, 429-436.	0.3	43
8	Application of the fastest route algorithm in the interactive simulation of the effect of local ischemia on the ECG. Medical and Biological Engineering and Computing, 2009, 47, 11-20.	1.6	42
9	A toolkit for forward/inverse problems in electrocardiography within the SCIRun problem solving environment. , 2011, 2011, 267-70.		41
10	Initial validation of a novel ECGI system for localization of premature ventricular contractions and ventricular tachycardia in structurally normal and abnormal hearts. Journal of Electrocardiology, 2018, 51, 801-808.	0.4	33
11	Influence of Modeling Errors on the Initial Estimate for Nonlinear Myocardial Activation Times Imaging Calculated With Fastest Route Algorithm. IEEE Transactions on Biomedical Engineering, 2016, 63, 2576-2584.	2.5	31
12	Changes in QRS Area and QRS Duration After Cardiac Resynchronization Therapy Predict Cardiac Mortality, Heart Failure Hospitalizations, and Ventricular Arrhythmias. Journal of the American Heart Association, 2019, 8, e013539.	1.6	30
13	Experimental Validation of Noninvasive Epicardial and Endocardial Activation Imaging. Circulation: Arrhythmia and Electrophysiology, 2016, 9, e004104.	2.1	25
14	Atrial Excitation Assuming Uniform Propagation. Journal of Cardiovascular Electrophysiology, 2003, 14, S166-S171.	0.8	24
15	Identifying Model Inaccuracies and Solution Uncertainties in Noninvasive Activation-Based Imaging of Cardiac Excitation Using Convex Relaxation. IEEE Transactions on Medical Imaging, 2014, 33, 902-912.	5.4	23
16	Big Data and Artificial Intelligence: Opportunities and Threats in Electrophysiology. Arrhythmia and Electrophysiology Review, 2020, 9, 146-154.	1.3	22
17	Volume conductor effects involved in the genesis of the P wave. Europace, 2005, 7, S30-S38.	0.7	21
18	Potential applications of the new ECGSIM. Journal of Electrocardiology, 2011, 44, 577-583.	0.4	16

#	Article	IF	Citations
19	The relation of 12 lead ECG to the cardiac anatomy: The normal CineECG. Journal of Electrocardiology, 2021, 69, 67-74.	0.4	16
20	Improving sensing and detection performance in subcutaneous monitors. Journal of Electrocardiology, 2009, 42, 580-583.	0.4	15
21	Spatiotemporal estimation of activation times of fractionated ECGs on complex heart surfaces. , 2011, 2011, 5884-7.		15
22	A new anatomical view on the vector cardiogram: The mean temporal-spatial isochrones. Journal of Electrocardiology, 2017, 50, 732-738.	0.4	15
23	ECG Adapted Fastest Route Algorithm to Localize the Ectopic Excitation Origin in CRT Patients. Frontiers in Physiology, 2019, 10, 183.	1.3	15
24	Novel CineECG Derived From Standard 12-Lead ECG Enables Right Ventricle Outflow Tract Localization of Electrical Substrate in Patients With Brugada Syndrome. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e008524.	2.1	14
25	Development of new anatomy reconstruction software to localize cardiac isochrones to the cardiac surface from the 12 lead ECG. Journal of Electrocardiology, 2015, 48, 959-965.	0.4	13
26	Sensitivity of CIPS-computed PVC location to measurement errors in ECG electrode position: the need for the 3D Camera. Journal of Electrocardiology, 2014, 47, 788-793.	0.4	12
27	Torso geometry reconstruction and body surface electrode localization using three-dimensional photography. Journal of Electrocardiology, 2018, 51, 60-67.	0.4	12
28	Longâ€Term Outcomes of Cardiac Resynchronization Therapy Using Apical Versus Nonapical Left Ventricular Pacing. Journal of the American Heart Association, 2018, 7, e008508.	1.6	12
29	OUP accepted manuscript. Europace, 2016, 18, iv16-iv22.	0.7	9
30	Using Lempel-Ziv complexity as effective classification tool of the sleep-related breathing disorders. Computer Methods and Programs in Biomedicine, 2019, 182, 105052.	2.6	9
31	Novel CineECG enables anatomical 3D localization and classification of bundle branch blocks. Europace, 2021, 23, i80-i87.	0.7	9
32	Uncertainty Quantification of the Effects of Segmentation Variability in ECGI. Lecture Notes in Computer Science, 2021, 12738, 515-522.	1.0	9
33	Statistical Variations of Heart Orientation in Healthy Adults. , 0, , .		9
34	Analysing the potential of RevealÂ® for monitoring cardiac potentials. Europace, 2007, 9, vi119-vi123.	0.7	8
35	Effect of Segmentation Variation on ECG Imaging. , 2018, 45, .		8
36	Effect of QRS area reduction and myocardial scar on the hemodynamic response to cardiac resynchronization therapy. Heart Rhythm, 2020, 17, 2046-2055.	0.3	8

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37	Electrocardiographic imaging-based recognition of possible induced bundle branch blocks during transcatheter aortic valve implantations. Europace, 2014, 16, 750-757.	0.7	7
38	Comparing Non-invasive Inverse Electrocardiography With Invasive Endocardial and Epicardial Electroanatomical Mapping During Sinus Rhythm. Frontiers in Physiology, 2021, 12, 730736.	1.3	7
39	New Additions to the Toolkit for Forward/Inverse Problems in Electrocardiography within the SCIRun Problem Solving Environment. Computing in Cardiology, 2014, 2014, 213-216.	0.4	7
40	The Consortium for Electrocardiographic Imaging. Computing in Cardiology, 2016, 43, 325-328.	0.4	7
41	Clinical Utility of Body Surface Potential Mapping in CRT Patients. Arrhythmia and Electrophysiology Review, 2021, 10, 113-119.	1.3	6
42	The Consortium on Electrocardiographic Imaging. , 0, , .		6
43	CineECG: A novel method to image the average activation sequence in the heart from the 12-lead ECG. Computers in Biology and Medicine, 2022, 141, 105128.	3.9	6
44	Modeling the His-Purkinje Effect in Non-invasive Estimation of Endocardial and Epicardial Ventricular Activation. Annals of Biomedical Engineering, 2022, 50, 343-359.	1.3	6
45	Analysis of the criteria of activation-based inverse electrocardiography using convex optimization. , 2011, 2011, 3913-6.		5
46	Feasibility study of a 3D camera to reduce electrode repositioning errors during longitudinal ECG acquisition. Journal of Electrocardiology, 2021, 66, 69-76.	0.4	4
47	A convex relaxation framework for initialization of activation-based inverse electrocardiography. , 2011, , .		3
48	Evaluating the human-computer interaction of â€˜ECGSimâ€™: A virtual simulator to aid learning in electrocardiology. , 2015, , .		3
49	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.	0.8	3
50	Minimally invasive robotically assisted surgical resection of left atrial endocardial papillary fibroelastomas. Journal of Thoracic and Cardiovascular Surgery, 2014, 148, 3247-3249.	0.4	2
51	Computer simulations to investigate the causes of T-wave notching. Journal of Electrocardiology, 2015, 48, 927-932.	0.4	2
52	CineECG provides a novel anatomical view on the normal atrial P-wave. European Heart Journal Digital Health, 2022, 3, 169-180.	0.7	2
53	Quantitative comparison of two cardiac electrical imaging methods to localize pacing sites. , 2015, , .		1
54	Generation of combined-modality tetrahedral meshes. , 2015, 2015, 953-956.		1

#	Article	IF	Citations
55	177-05: The CIPS-Vector: a New 12 Lead ECG Based Method to Localize PVCs to the Cardiac Anatomy. Europace, 2016, 18, i182-i182.	0.7	1
56	Automatic Registration of 3D Camera Recording to Model for Leads Localization. , 0, , .		1
57	Shape Analysis of Segmentation Variability. , 0, , .		1
58	The electro-anatomical pathway for normal and abnormal ECGs in COVID patients. , 0, , .		1
59	THE RELATIONSHIP BETWEEN THE PVC ORIGIN LOCATION AND THE MEAN DIRECTION OF ACTIVATION TO THE ANATOMICAL LOCATION. Journal of the American College of Cardiology, 2019, 73, 372.	1.2	0
60	The role of machine learning in the early detection of cardiovascular disease in a community setting. European Heart Journal Digital Health, 2021, 2, 135-136.	0.7	0
61	Adaptive Cardiac Resynchronization Therapy Effect on Electrical Dyssynchrony (aCRT-ELSYNC): A randomized controlled trial. Heart Rhythm O2, 2021, 2, 374-381.	0.6	0
62	B-PO04-183 ADAPTIVE CARDIAC RESYNCHRONIZATION THERAPY EFFECT ON ELECTRICAL DYSSYNCHRONY-A RANDOMIZED CONTROLLED TRIAL. Heart Rhythm, 2021, 18, S353.	0.3	0
63	A generic model of overall heart geometry for model based studies of electrical, mechanical, and ion-kinetics aspects of the heart. IFMBE Proceedings, 2009, , 2548-2551.	0.2	0
64	ECG Imaging of Focal Atrial Excitation: Evaluation in a Realistic Simulation Setup. , 0, , .		0
65	Mean Temporal Spatial Isochrones as Marker for Activation Delay in Patients with Arrhythmogenic Cardiomyopathy. , 0, , .		0
66	Premature Ventricular Conduction Detection and Localization From the ECG Using a Neural Network. , 0, , .		0
67	A Unified Pipeline for ECG Imaging Testing. , 2019, 46, .		0
68	Disease-Specific Electrocardiographic Lead Positioning for Early Detection of Arrhythmogenic Right Ventricular Cardiomyopathy. , 0, , .		0
69	Comparison of two equivalent dipole layer based inverse electrocardiography techniques for the non-invasive estimation of His-Purkinje mediated ventricular activation. , 0, , .		0
70	A Cardiac Shape Model for Segmentation Uncertainty Quantification. , 2021, 48, .		0
71	Uncovering Electromechanical Uncoupling in Subclinical Pathogenic Mutation Carriers and Arrhythmogenic Cardiomyopathy Patients. , 2021, , .		0
72	Relationship Between Cardiac Isochrones and its Mean Anatomical Position in the Heart: The CineECG. , 2021, , .		0