# 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 | 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 |
| 2 | 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 |
| 3 | CineECG provides a novel anatomical view on the normal atrial P-wave. European Heart Journal Digital Health, 2022, 3, 169-180. | 0.7 | 2 |
| 4 | 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 |
| 5 | Novel CineECG enables anatomical 3D localization and classification of bundle branch blocks. Europace, 2021, 23, i80-i87. | 0.7 | 9 |
| 6 | 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 |
| 7 | The relation of 12 lead ECG to the cardiac anatomy: The normal CineECG. Journal of Electrocardiology, 2021, 69, 67-74. | 0.4 | 16 |
| 8 | Clinical Utility of Body Surface Potential Mapping in CRT Patients. Arrhythmia and Electrophysiology Review, 2021, 10, 113-119. | 1.3 | 6 |
| 9 | Adaptive Cardiac Resynchronization Therapy Effect on Electrical Dyssynchrony (aCRT-ELSYNC): A randomized controlled trial. Heart Rhythm O2, 2021, 2, 374-381. | 0.6 | 0 |
| 10 | B-PO04-183 ADAPTIVE CARDIAC RESYNCHRONIZATION THERAPY EFFECT ON ELECTRICAL DYSSYNCHRONY-A RANDOMIZED CONTROLLED TRIAL. Heart Rhythm, 2021, 18, S353. | 0.3 | 0 |
| 11 | Uncertainty Quantification of the Effects of Segmentation Variability in ECGI. Lecture Notes in Computer Science, 2021, 12738, 515-522. | 1.0 | 9 |
| 12 | Comparing Non-invasive Inverse Electrocardiography With Invasive Endocardial and Epicardial Electroanatomical Mapping During Sinus Rhythm. Frontiers in Physiology, 2021, 12, 730736. | 1.3 | 7 |
| 13 | A Cardiac Shape Model for Segmentation Uncertainty Quantification. , 2021, 48, . | | 0 |
| 14 | Uncovering Electromechanical Uncoupling in Subclinical Pathogenic Mutation Carriers and Arrhythmogenic Cardiomyopathy Patients. , 2021, , . | | 0 |
| 15 | Relationship Between Cardiac Isochrones and its Mean Anatomical Position in the Heart: The CineECG. , 2021, , . | | 0 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Big Data and Artificial Intelligence: Opportunities and Threats in Electrophysiology. Arrhythmia and Electrophysiology Review, 2020, 9, 146-154. | 1.3 | 22 |
| 20 | ECG Adapted Fastest Route Algorithm to Localize the Ectopic Excitation Origin in CRT Patients. Frontiers in Physiology, 2019, 10, 183. | 1.3 | 15 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | A Unified Pipeline for ECG Imaging Testing. , 2019, 46, . | | 0 |
| 25 | Torso geometry reconstruction and body surface electrode localization using three-dimensional photography. Journal of Electrocardiology, 2018, 51, 60-67. | 0.4 | 12 |
| 26 | Effect of Segmentation Variation on ECG Imaging. , 2018, 45, . | | 8 |
| 27 | 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 |
| 28 | Validation and Opportunities of Electrocardiographic Imaging: From Technical Achievements to Clinical Applications. Frontiers in Physiology, 2018, 9, 1305. | 1.3 | 89 |
| 29 | 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 |
| 30 | A new anatomical view on the vector cardiogram: The mean temporal-spatial isochrones. Journal of Electrocardiology, 2017, 50, 732-738. | 0.4 | 15 |
| 31 | 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 |
| 32 | OUP accepted manuscript. Europace, 2016, 18, iv16-iv22. | 0.7 | 9 |
| 33 | 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 |
| 34 | Experimental Validation of Noninvasive Epicardial and Endocardial Activation Imaging. Circulation: Arrhythmia and Electrophysiology, 2016, 9, e004104. | 2.1 | 25 |
| 35 | The Consortium for Electrocardiographic Imaging. Computing in Cardiology, 2016, 43, 325-328. | 0.4 | 7 |
| 36 | Experimental Data and Geometric Analysis Repositoryâ€"EDGAR. Journal of Electrocardiology, 2015, 48, 975-981. | 0.4 | 58 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Quantitative comparison of two cardiac electrical imaging methods to localize pacing sites. , 2015, , . | | 1 |
| 38 | Generation of combined-modality tetrahedral meshes. , 2015, 2015, 953-956. | | 1 |
| 39 | Evaluating the human-computer interaction of â€˜ECGSimâ€™: A virtual simulator to aid learning in electrocardiology. , 2015, , . | | 3 |
| 40 | Computer simulations to investigate the causes of T-wave notching. Journal of Electrocardiology, 2015, 48, 927-932. | 0.4 | 2 |
| 41 | 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 |
| 42 | Electrocardiographic imaging-based recognition of possible induced bundle branch blocks during transcatheter aortic valve implantations. Europace, 2014, 16, 750-757. | 0.7 | 7 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | 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 |
| 47 | 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 |
| 48 | Evaluating strict and conventional left bundle branch block criteria using electrocardiographic simulations. Europace, 2013, 15, 1816-1821. | 0.7 | 61 |
| 49 | Early repolarization in mice causes overestimation of ventricular activation time by the QRS duration. Cardiovascular Research, 2013, 97, 182-191. | 1.8 | 49 |
| 50 | A convex relaxation framework for initialization of activation-based inverse electrocardiography. , 2011, , . | | 3 |
| 51 | Mechanoelectrical coupling enhances initiation and affects perpetuation of atrial fibrillation during acute atrial dilation. Heart Rhythm, 2011, 8, 429-436. | 0.3 | 43 |
| 52 | Potential applications of the new ECGSIM. Journal of Electrocardiology, 2011, 44, 577-583. | 0.4 | 16 |
| 53 | A toolkit for forward/inverse problems in electrocardiography within the SCIRun problem solving environment. , 2011, 2011, 267-70. | | 41 |
| 54 | Analysis of the criteria of activation-based inverse electrocardiography using convex optimization. , 2011, 2011, 3913-6. | | 5 |

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|---|---|---|---|
| 55 | Spatiotemporal estimation of activation times of fractionated ECGs on complex heart surfaces. , 2011, 2011, 5884-7. | | 15 |
| 56 | Improving sensing and detection performance in subcutaneous monitors. Journal of Electrocardiology, 2009, 42, 580-583. | 0.4 | 15 |
| 57 | Non-Invasive Imaging of Cardiac Activation and Recovery. Annals of Biomedical Engineering, 2009, 37, 1739-1756. | 1.3 | 141 |
| 58 | 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 |
| 59 | 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 |
| 60 | Analysing the potential of RevealÂ® for monitoring cardiac potentials. Europace, 2007, 9, vi119-vi123. | 0.7 | 8 |
| 61 | Volume conductor effects involved in the genesis of the P wave. Europace, 2005, 7, S30-S38. | 0.7 | 21 |
| 62 | Atrial Excitation Assuming Uniform Propagation. Journal of Cardiovascular Electrophysiology, 2003, 14, S166-S171. | 0.8 | 24 |
| 63 | Automatic Registration of 3D Camera Recording to Model for Leads Localization. , 0, , . | | 1 |
| 64 | Statistical Variations of Heart Orientation in Healthy Adults. , 0, , . | | 9 |
| 65 | Shape Analysis of Segmentation Variability. , 0, , . | | 1 |
| 66 | The Consortium on Electrocardiographic Imaging. , 0, , . | | 6 |
| 67 | ECG Imaging of Focal Atrial Excitation: Evaluation in a Realistic Simulation Setup. , 0, , . | | 0 |
| 68 | Mean Temporal Spatial Isochrones as Marker for Activation Delay in Patients with Arrhythmogenic Cardiomyopathy. , 0, , . | | 0 |
| 69 | Premature Ventricular Conduction Detection and Localization From the ECG Using a Neural Network. , 0, , . | | 0 |
| 70 | Disease-Specific Electrocardiographic Lead Positioning for Early Detection of Arrhythmogenic Right Ventricular Cardiomyopathy. , 0, , . | | 0 |
| 71 | The electro-anatomical pathway for normal and abnormal ECGs in COVID patients. , 0, , . | | 1 |
| 72 | Comparison of two equivalent dipole layer based inverse electrocardiography techniques for the non-invasive estimation of His-Purkinje mediated ventricular activation. , 0, , . | | 0 |