

Mark Potse

List of Publications by Citations

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73
papers

2,114
citations

23
h-index

45
g-index

83
ext. papers

2,609
ext. citations

4.4
avg, IF

4.65
L-index

#	Paper	IF	Citations
73	A comparison of monodomain and bidomain reaction-diffusion models for action potential propagation in the human heart. <i>IEEE Transactions on Biomedical Engineering</i> , 2006 , 53, 2425-35	5	317
72	Electrical conduction in canine pulmonary veins: electrophysiological and anatomic correlation. <i>Circulation</i> , 2002 , 105, 2442-8	16.7	258
71	The Early Repolarization Pattern: A Consensus Paper. <i>Journal of the American College of Cardiology</i> , 2015 , 66, 470-7	15.1	229
70	The Digital Twin to enable the vision of precision cardiology. <i>European Heart Journal</i> , 2020 , 41, 4556-4564	5.4	136
69	Impaired conduction in the bundle branches of mouse hearts lacking the gap junction protein connexin40. <i>Circulation</i> , 2001 , 103, 1591-8	16.7	111
68	Mechanism of right precordial ST-segment elevation in structural heart disease: excitation failure by current-to-load mismatch. <i>Heart Rhythm</i> , 2010 , 7, 238-48	6.7	88
67	Validation of a simple model for the morphology of the T wave in unipolar electrograms. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009 , 297, H792-801	5.2	75
66	Cardiac anisotropy in boundary-element models for the electrocardiogram. <i>Medical and Biological Engineering and Computing</i> , 2009 , 47, 719-29	3.1	66
65	Software design for analysis of multichannel intracardial and body surface electrocardiograms. <i>Computer Methods and Programs in Biomedicine</i> , 2002 , 69, 225-36	6.9	55
64	ST segment elevation by current-to-load mismatch: an experimental and computational study. <i>Heart Rhythm</i> , 2011 , 8, 111-8	6.7	48
63	Patient-specific modelling of cardiac electrophysiology in heart-failure patients. <i>Europace</i> , 2014 , 16 Suppl 4, iv56-iv61	3.9	43
62	Simulation of QRST integral maps with a membrane-based computer heart model employing parallel processing. <i>IEEE Transactions on Biomedical Engineering</i> , 2004 , 51, 1319-29	5	43
61	Mechanoelectrical coupling enhances initiation and affects perpetuation of atrial fibrillation during acute atrial dilation. <i>Heart Rhythm</i> , 2011 , 8, 429-36	6.7	38
60	Localized Structural Alterations Underlying a Subset of Unexplained Sudden Cardiac Death. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018 , 11, e006120	6.4	33
59	Spatially Coherent Activation Maps for Electrocardiographic Imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 1149-1156	5	31
58	The effect of reduced intercellular coupling on electrocardiographic signs of left ventricular hypertrophy. <i>Journal of Electrocardiology</i> , 2011 , 44, 571-6	1.4	29
57	Depolarization versus repolarization abnormality underlying inferolateral J-wave syndromes: New concepts in sudden cardiac death with apparently normal hearts. <i>Heart Rhythm</i> , 2019 , 16, 781-790	6.7	29

56	A computer model of endo-epicardial electrical dissociation and transmural conduction during atrial fibrillation. <i>Europace</i> , 2012 , 14 Suppl 5, v10-v16	3.9	27
55	An in-silico analysis of the effect of heart position and orientation on the ECG morphology and vectorcardiogram parameters in patients with heart failure and intraventricular conduction defects. <i>Journal of Electrocardiology</i> , 2015 , 48, 617-25	1.4	26
54	Similarities and differences between electrocardiogram signs of left bundle-branch block and left-ventricular uncoupling. <i>Europace</i> , 2012 , 14 Suppl 5, v33-v39	3.9	25
53	Electrocardiographic identification of abnormal ventricular depolarization and repolarization in patients with idiopathic ventricular fibrillation. <i>Journal of the American College of Cardiology</i> , 1998 , 31, 1406-13	15.1	25
52	The effect of lesion size and tissue remodeling on ST deviation in partial-thickness ischemia. <i>Heart Rhythm</i> , 2007 , 4, 200-6	6.7	25
51	Epicardial Fibrosis Explains Increased Endo-Epicardial Dissociation and Epicardial Breakthroughs in Human Atrial Fibrillation. <i>Frontiers in Physiology</i> , 2020 , 11, 68	4.6	24
50	In vivo electromechanical assessment of heart failure patients with prolonged QRS duration. <i>Heart Rhythm</i> , 2015 , 12, 1259-67	6.7	20
49	Evaluation of a Rapid Anisotropic Model for ECG Simulation. <i>Frontiers in Physiology</i> , 2017 , 8, 265	4.6	20
48	Scalable and Accurate ECG Simulation for Reaction-Diffusion Models of the Human Heart. <i>Frontiers in Physiology</i> , 2018 , 9, 370	4.6	19
47	Clinical application of an integrated 3-phase mapping technique for localization of the site of origin of idiopathic ventricular tachycardia. <i>Circulation</i> , 1999 , 99, 1300-11	16.7	19
46	How disruption of endo-epicardial electrical connections enhances endo-epicardial conduction during atrial fibrillation. <i>Europace</i> , 2017 , 19, 308-318	3.9	18
45	A comparison of monodomain and bidomain propagation models for the human heart. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 3895-8		15
44	Continuous localization of cardiac activation sites using a database of multichannel ECG recordings. <i>IEEE Transactions on Biomedical Engineering</i> , 2000 , 47, 682-9	5	15
43	Reconstruction of three-dimensional biventricular activation based on the 12-lead electrocardiogram via patient-specific modelling. <i>Europace</i> , 2021 , 23, 640-647	3.9	14
42	Critical appraisal of the mechanism underlying J waves. <i>Journal of Electrocardiology</i> , 2013 , 46, 390-4	1.4	13
41	Relation between body surface mapping and endocardial spread of ventricular activation in postinfarction heart. <i>Journal of Cardiovascular Electrophysiology</i> , 2001 , 12, 1232-41	2.7	10
40	Hybrid Parallelization of a Large-Scale Heart Model. <i>Lecture Notes in Computer Science</i> , 2012 , 120-132	0.9	10
39	Reduced Sodium Current in the Lateral Ventricular Wall Induces Inferolateral J-Waves. <i>Frontiers in Physiology</i> , 2016 , 7, 365	4.6	10

38	P-wave complexity in normal subjects and computer models. <i>Journal of Electrocardiology</i> , 2016 , 49, 545-534	10
37	Computer simulation of ECG manifestations of left ventricular electrical remodeling. <i>Journal of Electrocardiology</i> , 2012 , 45, 630-4	1.4 9
36	Mathematical modeling and simulation of ventricular activation sequences: implications for cardiac resynchronization therapy. <i>Journal of Cardiovascular Translational Research</i> , 2012 , 5, 146-58	3.3 9
35	The role of extracellular potassium transport in computer models of the ischemic zone. <i>Medical and Biological Engineering and Computing</i> , 2007 , 45, 1187-99	3.1 9
34	Towards a large-scale scalable adaptive heart model using shallow tree meshes. <i>Journal of Computational Physics</i> , 2015 , 298, 79-94	4.1 8
33	Segmentation of the left ventricular endocardium from magnetic resonance images by using different statistical shape models. <i>Journal of Electrocardiology</i> , 2016 , 49, 383-91	1.4 8
32	Computer Modelling for Better Diagnosis and Therapy of Patients by Cardiac Resynchronisation Therapy. <i>Arrhythmia and Electrophysiology Review</i> , 2015 , 4, 62-7	3.2 7
31	Beat-to-beat P-wave morphological variability in patients with paroxysmal atrial fibrillation: an in silico study. <i>Europace</i> , 2018 , 20, iii26-iii35	3.9 7
30	Design and Analysis of a Lightweight Parallel Adaptive Scheme for the Solution of the Monodomain Equation. <i>SIAM Journal of Scientific Computing</i> , 2014 , 36, C163-C189	2.6 6
29	Improving the Spatial Solution of Electrocardiographic Imaging: A New Regularization Parameter Choice Technique for the Tikhonov Method. <i>Lecture Notes in Computer Science</i> , 2017 , 289-300	0.9 6
28	The Spectrum of Idiopathic Ventricular Fibrillation and J-Wave Syndromes: Novel Mapping Insights. <i>Cardiac Electrophysiology Clinics</i> , 2019 , 11, 699-709	1.4 5
27	The relation between local repolarization and T-wave morphology in heart failure patients. <i>International Journal of Cardiology</i> , 2017 , 241, 270-276	3.2 4
26	Properties of unipolar electrograms recorded with a multielectrode basket catheter. <i>Journal of Electrocardiology</i> , 2004 , 37, 1-10	1.4 4
25	Conversion of left ventricular endocardial positions from patient-independent co-ordinates into biplane fluoroscopic projections. <i>Medical and Biological Engineering and Computing</i> , 2002 , 40, 41-6	3.1 4
24	Left Atrial Appendage Electrical Isolation Reduces Atrial Fibrillation Recurrences: A Simulation Study. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2021 , 14, e009230	6.4 4
23	Fibrosis and Conduction Abnormalities as Basis for Overlap of Brugada Syndrome and Early Repolarization Syndrome. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3 4
22	On Sampling Spatially-Correlated Random Fields for Complex Geometries. <i>Lecture Notes in Computer Science</i> , 2019 , 103-111	0.9 3
21	ST elevation or depression in subendocardial ischemia?. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 3899-902	3

20	Simulating T-wave parameters of local extracellular electrograms with a whole-heart bidomain reaction-diffusion model: Size matters!. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 6644-7		3
19	Dynamics of sustained reentry in a loop model with discrete gap junction resistances. <i>Physical Review E</i> , 2007 , 76, 021928	2.4	3
18	A left bundle branch block activation sequence and ventricular pacing influence voltage amplitudes: an in vivo and in silico study. <i>Europace</i> , 2018 , 20, iii77-iii86	3.9	3
17	The positive T wave. <i>Anatolian Journal of Cardiology</i> , 2007 , 7 Suppl 1, 164-7		3
16	Impact of the Endocardium in a Parameter Optimization to Solve the Inverse Problem of Electrocardiography. <i>Frontiers in Physiology</i> , 2018 , 9, 1946	4.6	2
15	Prediction of the Exit Site of Ventricular Tachycardia Based on Different ECG Lead Systems 2017 ,		2
14	A Parameter Optimization to Solve the Inverse Problem in Electrocardiography. <i>Lecture Notes in Computer Science</i> , 2017 , 219-229	0.9	2
13	Why Ablation of Sites With Purkinje Activation Is Antiarrhythmic: The Interplay Between Fast Activation and Arrhythmogenesis. <i>Frontiers in Physiology</i> , 2021 , 12, 648396	4.6	2
12	Characterization of T Wave Amplitude, Duration and Morphology Changes During Hemodialysis: Relationship With Serum Electrolyte Levels and Heart Rate. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 2467-2478	5	2
11	Synergistic antiarrhythmic effect of inward rectifier current inhibition and pulmonary vein isolation in a 3D computer model for atrial fibrillation. <i>Europace</i> , 2021 , 23, i161-i168	3.9	2
10	Effect of Na ⁺ -channel blockade on the three-dimensional substrate of atrial fibrillation in a model of endo-epicardial dissociation and transmural conduction. <i>Europace</i> , 2018 , 20, iii69-iii76	3.9	2
9	Left-axis deviation in patients with nonischemic heart failure and left bundle branch block is a purely electrical phenomenon. <i>Heart Rhythm</i> , 2021 , 18, 1352-1360	6.7	1
8	Understanding ST depression in the stress-test ECG. <i>Anatolian Journal of Cardiology</i> , 2007 , 7 Suppl 1, 145-7		1
7	Estimation of potassium levels in hemodialysis patients by T wave nonlinear dynamics and morphology markers.. <i>Computers in Biology and Medicine</i> , 2022 , 143, 105304	7	0
6	Fibrillation Patterns Creep and Jump in a Detailed Three-Dimensional Model of the Human Atria. <i>Lecture Notes in Computer Science</i> , 2019 , 131-138	0.9	
5	Modeling transport of interstitial potassium in regional myocardial ischemia: effect on the injury current. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 6331-4		
4	Integration of Body Surface Mapping and Biplane Fluoroscopy for Guidance of Catheter Ablation of Ventricular Tachycardia. <i>Biomedizinische Technik</i> , 2001 , 46, 210-212	1.3	
3	A generic model of overall heart geometry for model based studies of electrical, mechanical, and ion-kinetics aspects of the heart. <i>IFMBE Proceedings</i> , 2009 , 2548-2551	0.2	

2 18-02: Fibrosis explains increased epicardial breakthrough in AF. *Europace*, **2016**, 18, i163-i163 3.9

1 Why do we need supercomputers to understand the electrocardiographic T wave?. *Anatolian Journal of Cardiology*, **2007**, 7 Suppl 1, 123-4