

Brian Zenger Bs

List of Publications by Year in descending order

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39
papers

258
citations

1040056

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all docs

40
docs citations

40
times ranked

216
citing authors

#	ARTICLE	IF	CITATIONS
1	PFEIFER: Preprocessing Framework for Electrograms Intermittently Fiducialized from Experimental Recordings. <i>Journal of Open Source Software</i> , 2018, 3, 472.	4.6	34
2	Novel experimental model for studying the spatiotemporal electrical signature of acute myocardial ischemia: a translational platform. <i>Physiological Measurement</i> , 2020, 41, 015002.	2.1	20
3	Electrocardiographic Imaging for Atrial Fibrillation: A Perspective From Computer Models and Animal Experiments to Clinical Value. <i>Frontiers in Physiology</i> , 2021, 12, 653013.	2.8	20
4	A Framework for Image-Based Modeling of Acute Myocardial Ischemia Using Intramurally Recorded Extracellular Potentials. <i>Annals of Biomedical Engineering</i> , 2018, 46, 1325-1336.	2.5	15
5	Systematic collection of patient-reported outcomes in atrial fibrillation: feasibility and initial results of the Utah mEVAL AF programme. <i>Europace</i> , 2020, 22, 368-374.	1.7	15
6	Body Surface Potential Mapping: Contemporary Applications and Future Perspectives. <i>Hearts</i> , 2021, 2, 514-542.	0.9	14
7	GRÄ–MeR: A Pipeline for Geodesic Refinement of Mesh Registration. <i>Lecture Notes in Computer Science</i> , 2019, 11504, 37-45.	1.3	12
8	Estimation and Validation of Cardiac Conduction Velocity and Wavefront Reconstruction Using Epicardial and Volumetric Data. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 3290-3300.	4.2	12
9	Temporal Performance of Laplacian Eigenmaps and 3D Conduction Velocity in Detecting Ischemic Stress. <i>Journal of Electrocardiology</i> , 2018, 51, S116-S120.	0.9	11
10	Reducing Error in ECG Forward Simulations With Improved Source Sampling. <i>Frontiers in Physiology</i> , 2018, 9, 1304.	2.8	11
11	Reducing Line-of-Block Artifacts in Cardiac Activation Maps Estimated Using ECG Imaging: A Comparison of Source Models and Estimation Methods. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 2041-2052.	4.2	8
12	The electrocardiographic forward problem: A benchmark study. <i>Computers in Biology and Medicine</i> , 2021, 134, 104476.	7.0	7
13	Patient-reported outcomes and subsequent management in atrial fibrillation clinical practice: Results from the Utah mEVAL AF program. <i>Journal of Cardiovascular Electrophysiology</i> , 2020, 31, 3187-3195.	1.7	6
14	Novel Experimental Preparation to Assess Electrocardiographic Imaging Reconstruction Techniques. , 2020, 47, .		6
15	Electrocardiographic Comparison of Dobutamine and Bruce Cardiac Stress Testing With High Resolution Mapping in Experimental Models. , 2018, 45, .		6
16	Optimizing the Reconstruction of Cardiac Potentials Using a Novel High Resolution Pericardiac Cage. , 2019, 46, .		6
17	Improving Localization of Cardiac Geometry Using ECGI. , 2020, 47, .		5
18	High-Capacity Cardiac Signal Acquisition System for Flexible, Simultaneous, Multidomain Acquisition. , 2020, 47, .		5

#	ARTICLE	IF	CITATIONS
19	Novel Metric Using Laplacian Eigenmaps to Evaluate Ischemic Stress on the Torso Surface. , 2018, 45, .		4
20	Social Media Influence Does Not Reflect Scholarly or Clinical Activity in Real Life. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e008847.	4.8	4
21	The Role of Myocardial Fiber Direction in Epicardial Activation Patterns via Uncertainty Quantification. , 2021, 48, .		4
22	Accuracy of Patient Identification of Electrocardiogram-Verified Atrial Arrhythmias. JAMA Network Open, 2020, 3, e205431.	5.9	3
23	Quantifying the spatiotemporal influence of acute myocardial ischemia on volumetric conduction velocity. Journal of Electrocardiology, 2021, 66, 86-94.	0.9	3
24	Transient recovery of epicardial and torso ST-segment ischemic signals during cardiac stress tests: A possible physiological mechanism. Journal of Electrocardiology, 2021, 69S, 38-44.	0.9	3
25	Experimental Validation of a Novel Extracellular-Based Source Representation of Acute Myocardial Ischemia. , 2020, 47, .		3
26	Uncertainty Quantification in Simulations of Myocardial Ischemia. , 2021, 48, .		3
27	Reconstruction of cardiac position using body surface potentials. Computers in Biology and Medicine, 2022, 142, 105174.	7.0	3
28	Patient-reported outcomes and costs associated with vascular closure and same-day discharge following atrial fibrillation ablation. Journal of Cardiovascular Electrophysiology, 2022, 33, 1737-1744.	1.7	3
29	Pharmacological and simulated exercise cardiac stress tests produce different ischemic signatures in high-resolution experimental mapping studies. Journal of Electrocardiology, 2021, 68, 56-64.	0.9	2
30	Combining endocardial mapping and electrocardiographic imaging (ECGI) for improving PVC localization: A feasibility study. Journal of Electrocardiology, 2021, 69S, 51-54.	0.9	2
31	Simultaneous Multi-heartbeat ECGI Solution with a Time-Varying Forward Model: A Joint Inverse Formulation. Lecture Notes in Computer Science, 2021, 12738, 493-502.	1.3	2
32	How simple ideas forged in the fire of adversity can change healthcare: telehealth for atrial fibrillation during the COVID 19 pandemic. Europeace, 2021, 23, 1153-1154.	1.7	1
33	Validation of Intramural Wavefront Reconstruction and Estimation of 3D Conduction Velocity. , 2019, 46, .		1
34	Effect of Myocardial Fiber Direction on Epicardial Activation Patterns. , 2020, 47, .		1
35	Quantifying the Spatiotemporal Influence of Acute Myocardial Ischemia on Volumetric Conduction Velocity. , 2020, 47, .		1
36	A Practical Algorithm for Improving Localization and Quantification of Left Ventricular Scar. Computing in Cardiology, 2014, 2014, 105-108.	0.4	1

#	ARTICLE	IF	CITATIONS
37	Myocardial Ischemia Detection Using Body Surface Potential Mappings and Machine Learning. , 2021, 48, .		1
38	Experimental Validation of Image-Based Modeling of Torso Surface Potentials During Acute Myocardial Ischemia. , 2019, 46, .		0
39	Impact of Catheter Ablation on Stroke, Cognitive Decline and Dementia. Arrhythmia and Electrophysiology Review, 2021, 10, 205-210.	2.4	0