Laura Bear

List of Publications by Year
in descending order

23 papers	354 citations	1163117 8 h-index	1058476 14 g-index
23 all docs	23 docs citations	23 times ranked	402 citing authors

#	Article	IF	Citations
1	Validation and Opportunities of Electrocardiographic Imaging: From Technical Achievements to Clinical Applications. Frontiers in Physiology, 2018, 9, 1305.	2.8	89
2	Forward Problem of Electrocardiography. Circulation: Arrhythmia and Electrophysiology, 2015, 8, 677-684.	4.8	54
3	Non-invasive cardiac mapping in clinical practice: Application to the ablation of cardiac arrhythmias. Journal of Electrocardiology, 2015, 48, 966-974.	0.9	51
4	Evaluation of Fifteen Algorithms for the Resolution of the Electrocardiography Imaging Inverse Problem Using ex-vivo and in-silico Data. Frontiers in Physiology, 2018, 9, 1708.	2.8	23
5	Effect of the torso conductivity heterogeneities on the ECGI inverse problem solution. , 2015, , .		17
6	Electrocardiographic Imaging of Repolarization Abnormalities. Journal of the American Heart Association, 2021, 10, e020153.	3.7	17
7	Introduction to Noninvasive Cardiac Mapping. Cardiac Electrophysiology Clinics, 2015, 7, 1-16.	1.7	16
8	Effects of ECG Signal Processing on the Inverse Problem of Electrocardiography. , 2018, 45, .		15
9	Cardiac Propagation Pattern Mapping With Vector Field for Helping Tachyarrhythmias Diagnosis With Clinical Tridimensional Electro-Anatomical Mapping Tools. IEEE Transactions on Biomedical Engineering, 2019, 66, 373-382.	4.2	14
10	The Impact of Torso Signal Processing on Noninvasive Electrocardiographic Imaging Reconstructions. IEEE Transactions on Biomedical Engineering, 2021, 68, 436-447.	4.2	13
11	Reducing Line-of-Block Artifacts in Cardiac Activation Maps Estimated Using ECG Imaging: A Comparison of Source Models and Estimation Methods. IEEE Transactions on Biomedical Engineering, 2022, 69, 2041-2052.	4.2	8
12	Accuracy of lead removal vs linear interpolation in non-invasive electrocardiographic imaging (ECGI). , 2015, , .		7
13	Novel Experimental Preparation to Assess Electrocardiographic Imaging Reconstruction Techniques. , 2020, 47, .		6
14	Insights Into the Spatiotemporal Patterns of Complexity of Ventricular Fibrillation by Multilead Analysis of Body Surface Potential Maps. Frontiers in Physiology, 2020, 11, 554838.	2.8	5
15	Spatiotemporal approximation of cardiac activation and recovery isochrones. Journal of Electrocardiology, 2022, 71, 1-9.	0.9	5
16	Solving Inverse Electrocardiographic Mapping Using Machine Learning and Deep Learning Frameworks. Sensors, 2022, 22, 2331.	3.8	5
17	Impulse Data Models for the Inverse Problem of Electrocardiography. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1353-1361.	6.3	3
18	Non-Invasive Assessment of Spatiotemporal Organization of Ventricular Fibrillation Through Principal Component Analysis. , 0, , .		3

#	Article	IF	Citations
19	Local conduction velocity mapping for electrocardiographic imaging. , 2015, , .		1
20	Atrial Electro-anatomic Mapping with a Novel Noncontact Approach. , 0, , .		1
21	A Patchwork Method to Improve the Performance of Current Methods for Solving the Inverse Problem of Electrocardiography. IEEE Transactions on Biomedical Engineering, 2023, 70, 55-66.	4.2	1
22	Application of an Inverse-Forward Approach to Derive the 12-lead ECG from Body Surface Potential Maps. , 0, , .		0
23	Interpolating Low Amplitude ECG Signals Combined with Filtering According to International Standards Improves Inverse Reconstruction of Cardiac Electrical Activity. Lecture Notes in Computer Science, 2019, , 112-120.	1.3	0