Rob S Macleod

List of Publications by Year
in descending order

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143 papers	6,888 citations	94433 37 h-index	64796 79 g-index
150 all docs	150 docs citations	150 times ranked	4946 citing authors

#	Article	IF	Citations
1	Detection and Quantification of Left Atrial Structural Remodeling With Delayed-Enhancement Magnetic Resonance Imaging in Patients With Atrial Fibrillation. Circulation, 2009, 119, 1758-1767.	1.6	960
2	Left Atrial Strain and Strain Rate in Patients With Paroxysmal and Persistent Atrial Fibrillation. Circulation: Cardiovascular Imaging, 2010, 3, 231-239.	2.6	550
3	Association of Left Atrial Fibrosis Detected by Delayed-Enhancement Magnetic Resonance Imaging and the Risk of Stroke in Patients With Atrial Fibrillation. Journal of the American College of Cardiology, 2011, 57, 831-838.	2.8	349
4	Atrial Fibrosis Helps Select the Appropriate Patient and Strategy in Catheter Ablation of Atrial Fibrillation: A DE-MRI Guided Approach. Journal of Cardiovascular Electrophysiology, 2011, 22, 16-22.	1.7	321
5	Atrial Fibrillation Ablation Outcome Is Predicted by Left Atrial Remodeling on MRI. Circulation: Arrhythmia and Electrophysiology, 2014, 7, 23-30.	4.8	316
6	New Magnetic Resonance Imaging-Based Method for Defining the Extent of Left Atrial Wall Injury After the Ablation of Atrial Fibrillation. Journal of the American College of Cardiology, 2008, 52, 1263-1271.	2.8	313
7	Evaluation of the left atrial substrate in patients with lone atrial fibrillation using delayed-enhanced MRI: Implications for disease progression and response to catheter ablation. Heart Rhythm, 2010, 7, 1475-1481.	0.7	298
8	Evaluation of Left Atrial Lesions After Initial and Repeat Atrial Fibrillation Ablation. Circulation: Arrhythmia and Electrophysiology, 2010, 3, 249-259.	4.8	197
9	Personalized virtual-heart technology for guiding the ablation of infarct-related ventricular tachycardia. Nature Biomedical Engineering, 2018, 2, 732-740.	22.5	184
10	Evaluation of current algorithms for segmentation of scar tissue from late Gadolinium enhancement cardiovascular magnetic resonance of the left atrium: an open-access grand challenge. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 105.	3.3	136
11	Virtual Electrophysiological Study of Atrial Fibrillation in Fibrotic Remodeling. PLoS ONE, 2015, 10, e0117110.	2.5	122
12	Real-time magnetic resonance imagingâ€“guided radiofrequency atrial ablation and visualization of lesion formation at 3 Tesla. Heart Rhythm, 2011, 8, 295-303.	0.7	120
13	Atrial Fibrosis Quantified Using Late Gadolinium Enhancement MRI is Associated With Sinus Node Dysfunction Requiring Pacemaker Implant. Journal of Cardiovascular Electrophysiology, 2012, 23, 44-50.	1.7	119
14	Echocardiographic left atrial reverse remodeling after catheter ablation of atrial fibrillation is predicted by preablation delayed enhancement of left atrium by magnetic resonance imaging. American Heart Journal, 2010, 160, 877-884.	2.7	117
15	Mechanistic Inquiry into the Role of Tissue Remodeling in Fibrotic Lesions in Human Atrial Fibrillation. Biophysical Journal, 2013, 104, 2764-2773.	0.5	113
16	Methodology for patient-specific modeling of atrial fibrosis as a substrate for atrial fibrillation. Journal of Electrocardiology, 2012, 45, 640-645.	0.9	112
17	Dark Regions of No-Reflow on Late Gadolinium Enhancement Magnetic Resonance Imaging Result in Scar Formation After Atrial Fibrillation Ablation. Journal of the American College of Cardiology, 2011, 58, 177-185.	2.8	102
18	Identification and Acute Targeting of Gaps in Atrial Ablation Lesion Sets Using a Real-Time Magnetic Resonance Imaging System. Circulation: Arrhythmia and Electrophysiology, 2012, 5, 1130-1135.	4.8	96

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19	Magnetic Resonance Imagingâ€Confirmed Ablative Debulking of the Left Atrial Posterior Wall and Septum for Treatment of Persistent Atrial Fibrillation: Rationale and Initial Experience. Journal of Cardiovascular Electrophysiology, 2010, 21, 126-132.	1.7	95
20	Temporal left atrial lesion formation after ablation of atrial fibrillation. Heart Rhythm, 2009, 6, 161-168.	0.7	94
21	Estimates of Repolarization Dispersion From Electrocardiographic Measurements. Circulation, 2000, 102, 685-691.	1.6	90
22	Fully Automatic Left Atrium Segmentation From Late Gadolinium Enhanced Magnetic Resonance Imaging Using a Dual Fully Convolutional Neural Network. IEEE Transactions on Medical Imaging, 2019, 38, 515-524.	8.9	90
23	Validation and Opportunities of Electrocardiographic Imaging: From Technical Achievements to Clinical Applications. Frontiers in Physiology, 2018, 9, 1305.	2.8	89
24	Mechanism for ST Depression Associated with Contiguous Subendocardial Ischemia. Journal of Cardiovascular Electrophysiology, 2004, 15, 1200-1206.	1.7	85
25	On the Passive Cardiac Conductivity. Annals of Biomedical Engineering, 2005, 33, 1743-1751.	2.5	79
26	Inverse electrocardiographic source localization of ischemia: An optimization framework and finite element solution. Journal of Computational Physics, 2013, 250, 403-424.	3.8	72
27	Optimization of focality and direction in dense electrode array transcranial direct current stimulation (tDCS). Journal of Neural Engineering, 2016, 13, 036020.	3.5	68
28	A computer modeling tool for comparing novel ICD electrode orientations in children and adults. Heart Rhythm, 2008, 5, 565-572.	0.7	67
29	Experimental Data and Geometric Analysis Repositoryâ€"EDGAR. Journal of Electrocardiology, 2015, 48, 975-981.	0.9	58
30	Comparison of Left Atrial Area Marked Ablated in Electroanatomical Maps with Scar in MRI. Journal of Cardiovascular Electrophysiology, 2014, 25, 457-463.	1.7	46
31	Characterization of Gadolinium Contrast Enhancement of Radiofrequency Ablation Lesions in Predicting Edema and Chronic Lesion Size. Circulation: Arrhythmia and Electrophysiology, 2017, 10, .	4.8	44
32	MRI of the left atrium: predicting clinical outcomes in patients with atrial fibrillation. Expert Review of Cardiovascular Therapy, 2011, 9, 105-111.	1.5	43
33	A pipeline for the simulation of transcranial direct current stimulation for realistic human head models using SCIRun/BioMesh3D. , 2012, 2012, 5486-9.		42
34	Initial Experience of Assessing Esophageal Tissue Injury and Recovery Using Delayed-Enhancement MRI After Atrial Fibrillation Ablation. Circulation: Arrhythmia and Electrophysiology, 2009, 2, 620-625.	4.8	41
35	Improved EEG source analysis using lowâ€resolution conductivity estimation in a fourâ€compartment finite element head model. Human Brain Mapping, 2009, 30, 2862-2878.	3.6	41
36	Finite element modeling of subcutaneous implantable defibrillator electrodes in an adult torso. Heart Rhythm, 2010, 7, 692-698.	0.7	41

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37	A toolkit for forward/inverse problems in electrocardiography within the SCIRun problem solving environment. , 2011, 2011, 267-70.		41
38	The Effect of Conductivity on ST-Segment Epicardial Potentials Arising from Subendocardial Ischemia. Annals of Biomedical Engineering, 2005, 33, 751-763.	2.5	40
39	The Inverse Problem of Electrocardiography. , 2010, , 299-344.		40
40	Increased Susceptibility to Atrial Fibrillation Secondary to Atrial Fibrosis in Transgenic Goats Expressing Transforming Growth Factorâ€Î²1. Journal of Cardiovascular Electrophysiology, 2016, 27, 1220-1229.	1.7	40
41	Cardiac Position Sensitivity Study in the Electrocardiographic Forward Problem Using Stochastic Collocation and Boundary Element Methods. Annals of Biomedical Engineering, 2011, 39, 2900-2910.	2.5	39
42	Chronic atrial fibrillation causes left ventricular dysfunction in dogs but not goats: experience with dogs, goats, and pigs. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 305, H725-H731.	3.2	39
43	Estimates of Repolarization and Its Dispersion From Electrocardiographic Measurements: Direct Epicardial Assessment in the Canine Heart. Journal of Electrocardiology, 2000, 33, 171-180.	0.9	37
44	Poor scar formation after ablation is associated with atrial fibrillation recurrence. Journal of Interventional Cardiac Electrophysiology, 2015, 44, 247-256.	1.3	35
45	Incorporating Histology into a 3D Microscopic Computer Model of Myocardium to Study Propagation at a Cellular Level. Annals of Biomedical Engineering, 2010, 38, 1399-1414.	2.5	34
46	PFEIFER: Preprocessing Framework for Electrograms Intermittently Fiducialized from Experimental Recordings. Journal of Open Source Software, 2018, 3, 472.	4.6	34
47	Spatial organization of acute myocardial ischemia. Journal of Electrocardiology, 2016, 49, 323-336.	0.9	28
48	Direct comparison of a novel antitachycardia pacing algorithm against present methods using virtual patient modeling. Heart Rhythm, 2020, 17, 1602-1608.	0.7	26
49	Biomedical computing and visualization software environments. Communications of the ACM, 2004, 47, 64-71.	4.5	25
50	Substrate Modification is a Better Predictor of Catheter Ablation Success in Atrial Fibrillation than Pulmonary Vein Isolation: An LGE-MRI Study. Clinical Medicine Insights: Cardiology, 2015, 9, CMC.S22100.	1.8	25
51	Diverse Fibrosis Architecture and Premature Stimulation Facilitate Initiation of Reentrant Activity Following Chronic Atrial Fibrillation. Journal of Cardiovascular Electrophysiology, 2015, 26, 1352-1360.	1.7	25
52	Computational Shape Models Characterize Shape Change of the Left Atrium in Atrial Fibrillation. Clinical Medicine Insights: Cardiology, 2014, 8s1, CMC.S15710.	1.8	23
53	Realâ€Time MRIâ€Guided Cardiac Cryoâ€Ablation: A Feasibility Study. Journal of Cardiovascular Electrophysiology, 2016, 27, 602-608.	1.7	23
54	Extensions to a manifold learning framework for time-series analysis on dynamic manifolds in bioelectric signals. Physical Review E, 2016, 93, 042218.	2.1	23

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55	Identifying locations of re-entrant drivers from patient-specific distribution of fibrosis in the left atrium. PLoS Computational Biology, 2020, 16, e1008086.	3.2	22
56	Atrial Fibrosis Hampers Non-invasive Localization of Atrial Ectopic Foci From Multi-Electrode Signals: A 3D Simulation Study. Frontiers in Physiology, 2018, 9, 404.	2.8	20
57	Novel experimental model for studying the spatiotemporal electrical signature of acute myocardial ischemia: a translational platform. Physiological Measurement, 2020, 41, 015002.	2.1	20
58	Electrocardiographic Imaging for Atrial Fibrillation: A Perspective From Computer Models and Animal Experiments to Clinical Value. Frontiers in Physiology, 2021, 12, 653013.	2.8	20
59	Developing a Quantitative Measurement System for Assessing Heterotopic Ossification and Monitoring the Bioelectric Metrics from Electrically Induced Osseointegration in the Residual Limb of Service Members. Annals of Biomedical Engineering, 2010, 38, 2968-2978.	2.5	19
60	Real-time magnetic resonance imaging-guided cryoablation of the pulmonary veins with acute freeze-zone and chronic lesion assessment. Europace, 2019, 21, 154-162.	1.7	19
61	Sensitivity of epicardial electrical markers to acute ischemia detection. Journal of Electrocardiology, 2014, 47, 836-841.	0.9	16
62	Spatiotemporal estimation of activation times of fractionated ECGs on complex heart surfaces. , 2011, 2011, 5884-7.		15
63	Acute noncontrast T1â€weighted magnetic resonance imaging predicts chronic radiofrequency ablation lesions. Journal of Cardiovascular Electrophysiology, 2018, 29, 1556-1562.	1.7	15
64	A Framework for Image-Based Modeling of Acute Myocardial Ischemia Using Intramurally Recorded Extracellular Potentials. Annals of Biomedical Engineering, 2018, 46, 1325-1336.	2.5	15
65	Effects of ECG Signal Processing on the Inverse Problem of Electrocardiography. , 2018, 45, .		15
66	Experimental Measures of Ventricular Activation and Synchrony. PACE - Pacing and Clinical Electrophysiology, 2008, 31, 1560-1570.	1.2	14
67	Sensitivity and Specificity of Substrate Mapping: An In Silico Framework for the Evaluation of Electroanatomical Substrate Mapping Strategies. Journal of Cardiovascular Electrophysiology, 2014, 25, 774-780.	1.7	14
68	Body Surface Potential Mapping: Contemporary Applications and Future Perspectives. Hearts, 2021, 2, 514-542.	0.9	14
69	The Effect of Fat Pad Modification during Ablation of Atrial Fibrillation: Late Gadolinium Enhancement MRI Analysis. PACE - Pacing and Clinical Electrophysiology, 2013, 36, 467-476.	1.2	13
70	The Impact of Torso Signal Processing on Noninvasive Electrocardiographic Imaging Reconstructions. IEEE Transactions on Biomedical Engineering, 2021, 68, 436-447.	4.2	13
71	Image-based modeling of acute myocardial ischemia using experimentally derived ischemic zone source representations. Journal of Electrocardiology, 2018, 51, 725-733.	0.9	12
72	GRÃ–MeR: A Pipeline for Geodesic Refinement of Mesh Registration. Lecture Notes in Computer Science, 2019, 11504, 37-45.	1.3	12

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73	Estimation and Validation of Cardiac Conduction Velocity and Wavefront Reconstruction Using Epicardial and Volumetric Data. IEEE Transactions on Biomedical Engineering, 2021, 68, 3290-3300.	4.2	12
74	Temporal Performance of Laplacian Eigenmaps and 3D Conduction Velocity in Detecting Ischemic Stress. Journal of Electrocardiology, 2018, 51, S116-S120.	0.9	11
75	Reducing Error in ECG Forward Simulations With Improved Source Sampling. Frontiers in Physiology, 2018, 9, 1304.	2.8	11
76	Higher contact force during radiofrequency ablation leads to a much larger increase in edema as compared to chronic lesion size. Journal of Cardiovascular Electrophysiology, 2018, 29, 1143-1149.	1.7	11
77	Uncertainty Quantification of the Effects of Segmentation Variability in ECGI. Lecture Notes in Computer Science, 2021, 12738, 515-522.	1.3	9
78	Evaluation of different meshing algorithms in the computation of defibrillation thresholds in children. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1422-5.	0.5	8
79	Predictive modeling of defibrillation using hexahedral and tetrahedral finite element models: recent advances. Journal of Electrocardiology, 2008, 41, 483-486.	0.9	8
80	Effect of Segmentation Variation on ECG Imaging. , 2018, 45, .		8
81	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
82	Using models of the passive cardiac conductivity and full heart anisotropic bidomain to study the epicardial potentials in ischemia. , 2004, 2004, 3555-8.		7
83	Diagnostic imaging and pacemaker implantation in a domestic goat with persistent left cranial vena cava. Journal of Veterinary Cardiology, 2014, 16, 45-50.	0.9	7
84	Effective Ablation Settings That Predict Chronic Scar After Left Atrial Ablation. JACC: Clinical Electrophysiology, 2020, 6, 143-152.	3.2	7
85	Reproducibility of clinical late gadolinium enhancement magnetic resonance imaging in detecting left atrial scar after atrial fibrillation ablation. Journal of Cardiovascular Electrophysiology, 2020, 31, 2824-2832.	1.7	7
86	The electrocardiographic forward problem: A benchmark study. Computers in Biology and Medicine, 2021, 134, 104476.	7.0	7
87	Simultaneous High-Resolution Electrical Imaging of Endocardial, Epicardial and Torso-Tank Surfaces Under Varying Cardiac Metabolic Load and Coronary Flow. , 2007, , 320-329.		7
88	Validating Patient-Specific Finite Element Models of Direct Electrocortical Stimulation. Frontiers in Neuroscience, 2021, 15, 691701.	2.8	6
89	Spatial Downsampling of Surface Sources in the Forward Problem of Electrocardiography. Lecture Notes in Computer Science, 2019, , 29-36.	1.3	6
90	Novel Experimental Preparation to Assess Electrocardiographic Imaging Reconstruction Techniques. , 2020, 47, .		6

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91	The Consortium on Electrocardiographic Imaging. , 0, , .		6
92	Electrocardiographic Comparison of Dobutamine and Bruce Cardiac Stress Testing With High Resolution Mapping in Experimental Models. , 2018, 45, .		6
93	Optimizing the Reconstruction of Cardiac Potentials Using a Novel High Resolution Pericardiac Cage. , 2019, 46, .		6
94	A Study of the Dynamics of Cardiac Ischemia using Experimental and Modeling Approaches. , 2004, 2004, 3585-8.		5
95	Establishing Multiscale Models for Simulating Whole Limb Estimates of Electric Fields for Osseointegrated Implants. IEEE Transactions on Biomedical Engineering, 2011, 58, 2991-2994.	4.2	5
96	Measuring defibrillator surface potentials: The validation of a predictive defibrillation computer model. Computers in Biology and Medicine, 2018, 102, 402-410.	7.0	5
97	Area Available for Atrial Fibrillation to Propagate Is an Important Determinant of Recurrence After Ablation. JACC: Clinical Electrophysiology, 2021, 7, 896-908.	3.2	5
98	Novel Biomarker for Evaluating Ischemic Stress Using an Electrogram Derived Phase Space. , 0, , .		5
99	Improving Localization of Cardiac Geometry Using ECGI. , 2020, 47, .		5
100	Overcoming Barriers to Quantification and Comparison of Electrocardiographic Imaging Methods: a Community-Based Approach. , 2017, 44, .		5
101	High-Capacity Cardiac Signal Acquisition System for Flexible, Simultaneous, Multidomain Acquisition. , 2020, 47, .		5
102	Bioelectric Analyses of an Osseointegrated Intelligent Implant Design System for Amputees. Journal of Visualized Experiments, 2009, , 1-6.	0.3	4
103	Automatic segmentation of the left atrium from MRI images using salient feature and contour evolution. , 2012, 2012, 3211-4.		4
104	A Kalman Filtering Perspective for Multiatlas Segmentation. SIAM Journal on Imaging Sciences, 2015, 8, 1007-1029.	2.2	4
105	Novel Metric Using Laplacian Eigenmaps to Evaluate Ischemic Stress on the Torso Surface. , 2018, 45, .		4
106	Atrial fibrillation observed on surface ECG can be atrial flutter or atrial tachycardia. Journal of Electrocardiology, 2018, 51, S67-S71.	0.9	4
107	Validating defibrillation simulation in a human-shaped phantom. Heart Rhythm, 2020, 17, 661-668.	0.7	4
108	Correcting Undersampled Cardiac Sources in Equivalent Double Layer Forward Simulations. Lecture Notes in Computer Science, 2019, 11504, 147-155.	1.3	4

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109	Effects of Interpolation on the Inverse Problem of Electrocardiography. , 2019, 46, .		4
110	Novel Biomarker for Evaluating Ischemic Stress Using an Electrogram Derived Phase Space. Computing in Cardiology, 2016, 43, 1057-1060.	0.4	4
111	The Role of Myocardial Fiber Direction in Epicardial Activation Patterns via Uncertainty Quantification. , 2021, 48, .		4
112	An optimization framework for inversely estimating myocardial transmembrane potentials and localizing ischemia. , 2011, 2011, 1680-3.		3
113	Quantifying the spatiotemporal influence of acute myocardial ischemia on volumetric conduction velocity. Journal of Electrocardiology, 2021, 66, 86-94.	0.9	3
114	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
115	The effect of interpolating low amplitude leads on the inverse reconstruction of cardiac electrical activity. Computers in Biology and Medicine, 2021, 136, 104666.	7.0	3
116	Using UncertainSCI to Quantify Uncertainty in Cardiac Simulations. , 0, , .		3
117	Experimental Validation of a Novel Extracellular-Based Source Representation of Acute Myocardial Ischemia. , 2020, 47, .		3
118	Uncertainty Quantification in Simulations of Myocardial Ischemia. , 2021, 48, .		3
119	Reconstruction of cardiac position using body surface potentials. Computers in Biology and Medicine, 2022, 142, 105174.	7.0	3
120	Measuring defibrillator surface potentials for simulation verification. , 2011, 2011, 239-42.		2
121	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
122	Combining endocardial mapping and electrocardiographic imaging (ECGI) for improving PVC localization: A feasibility study. Journal of Electrocardiology, 2021, 69S, 51-54.	0.9	2
123	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
124	The Role of Reduced Left Ventricular, Systolic Blood Volumes in ST Segment Potentials Overlying Diseased Tissue of the Ischemic Heart. , 0, , .		2
125	The Role of Reduced Left Ventricular, Systolic Blood Volumes in ST Segment Potentials Overlying Diseased Tissue of the Ischemic Heart. Computing in Cardiology, 2016, 43, 209-212.	0.4	2
126	A wavefront-based constraint for potential surface solutions in inverse electrocardiography. , 2006, 2006, 2550-3.		1

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127	Regions of High Dominant Frequency in Chronic Atrial Fibrillation Anchored to Areas of Atrial Fibrosis. , 2019, 46, .		1
128	Shape Analysis of Segmentation Variability. , 0, , .		1
129	Detecting Ischemic Stress to the Myocardium Using Laplacian Eigenmaps and Changes to Conduction Velocity. , 2017, 44, .		1
130	Validation of Intramural Wavefront Reconstruction and Estimation of 3D Conduction Velocity. , 2019, 46, .		1
131	Effect of Myocardial Fiber Direction on Epicardial Activation Patterns. , 2020, 47, .		1
132	Quantifying the Spatiotemporal Influence of Acute Myocardial Ischemia on Volumetric Conduction Velocity. , 2020, 47, .		1
133	Verification of a Defibrillation Simulation Using Internal Electric Fields in a Human Shaped Phantom. Computing in Cardiology, 2014, 2014, 689-692.	0.4	1
134	A Practical Algorithm for Improving Localization and Quantification of Left Ventricular Scar. Computing in Cardiology, 2014, 2014, 105-108.	0.4	1
135	Controlled Activation for Interrogation of the Electrophysiological Substrate. Computing in Cardiology, 2014, 2014, 189-192.	0.4	1
136	Myocardial Ischemia Detection Using Body Surface Potential Mappings and Machine Learning. , 2021, 48, .		1
137	Shortâ€term natural course of esophageal thermal injury after ablation for atrial fibrillation. Journal of Cardiovascular Electrophysiology, 2022, 33, 1450-1459.	1.7	1
138	Inverse electrocardiography in the framework of dynamic imaging problems. , 2004, 2004, 3565-8.		0
139	Temporal Dilation of Animal Cardiac Recordings Registered to Human Torso Geometries. , 0, , .		0
140	Experimental Validation of Image-Based Modeling of Torso Surface Potentials During Acute Myocardial Ischemia. , 2019, 46, .		0
141	A Unified Pipeline for ECG Imaging Testing. , 2019, 46, .		0
142	Temporal Dilation of Animal Cardiac Recordings Registered to Human Torso Geometries. Computing in Cardiology, 2016, 43, 329-332.	0.4	0
143	Image Based Modeling of Defibrillation in Children. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0