Jack M Rogers

List of Publications by Year
in descending order

62 papers	2,687 citations	147801 31 h-index	182427 51 g-index
63 all docs	63 docs citations	63 times ranked	1744 citing authors

#	Article	IF	Citations
1	Right ventricular insertion promotes reinitiation of ventricular fibrillation in defibrillation failure. Heart Rhythm, 2021, 18, 995-1003.	0.7	1
2	Optical mapping of electromechanics in intact organs. Experimental Biology and Medicine, 2020, 245, 368-373.	2.4	4
3	Highâ€resolution optical mapping of gastric slow wave propagation. Neurogastroenterology and Motility, 2019, 31, e13449.	3.0	16
4	Cardiomyocytes from CCND2-overexpressing human induced-pluripotent stem cells repopulate the myocardial scar in mice: A 6-month study. Journal of Molecular and Cellular Cardiology, 2019, 137, 25-33.	1.9	19
5	Optocardiography and Electrophysiology Studies of Ex Vivo Langendorff-perfused Hearts. Journal of Visualized Experiments, 2019, , .	0.3	9
6	Effects of combination of sotalol and verapamil on initiation, maintenance, and termination of ventricular fibrillation in swine hearts. Cardiovascular Therapeutics, 2018, 36, e12326.	2.5	2
7	RHYTHM: An Open Source Imaging Toolkit for Cardiac Panoramic Optical Mapping. Scientific Reports, 2018, 8, 2921.	3.3	58
8	Effects of gadolinium on cardiac mechanosensitivity in whole isolated swine hearts. Scientific Reports, 2018, 8, 10506.	3.3	7
9	K_{ATP} channel inhibition blunts electromechanical decline during hypoxia in left ventricular working rabbit hearts. Journal of Physiology, 2017, 595, 3799-3813.	2.9	36
10	Optical Mapping of Membrane Potential and Epicardial Deformation in Beating Hearts. Biophysical Journal, 2016, 111, 438-451.	0.5	53
11	Shifting Ventricular Fibrillation Drive Mechanism as Time Progresses. JACC: Clinical Electrophysiology, 2015, 1, 198-199.	3.2	0
12	Racing to the flatline: heart rate and Î2-adrenergic stimulation quicken the pace. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 308, H977-H979.	3.2	0
13	Verapamil reduces incidence of reentry during ventricular fibrillation in pigs. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H1361-H1369.	3.2	6
14	The Importance of Purkinje Activation in Long Duration Ventricular Fibrillation. Journal of the American Heart Association, 2014, 3, e000495.	3.7	42
15	Evolution of activation patterns during long-duration ventricular fibrillation in pigs. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H992-H1002.	3.2	32
16	Panoramic optical mapping shows wavebreak at a consistent anatomical site at the onset of ventricular fibrillation. Cardiovascular Research, 2012, 93, 272-279.	3.8	16
17	A Novel Approach to Dual Excitation Ratiometric Optical Mapping of Cardiac Action Potentials With Di-4-ANEPPS Using Pulsed LED Excitation. IEEE Transactions on Biomedical Engineering, 2011, 58, 2120-2126.	4.2	56
18	Simultaneous optical mapping of transmembrane potential and wall motion in isolated, perfused whole hearts. Journal of Biomedical Optics, 2011, 16, 1.	2.6	32

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19	Phase Mapping of Cardiac Fibrillation. Circulation: Arrhythmia and Electrophysiology, 2010, 3, 105-114.	4.8	145
20	Change in Conduction Velocity due to Fiber Curvature in Cultured Neonatal Rat Ventricular Myocytes. IEEE Transactions on Biomedical Engineering, 2009, 56, 855-861.	4.2	12
21	Epicardial mapping of ventricular fibrillation over the posterior descending artery and left posterior papillary muscle of the swine heart. Journal of Interventional Cardiac Electrophysiology, 2009, 24, 11-17.	1.3	9
22	Can mapping differentiate microreentry from a focus in the ventricle?. Heart Rhythm, 2009, 6, 1666-1669.	0.7	13
23	Progress in modeling cardiac electrical activity: A long way from spherical cows. Heart Rhythm, 2008, 5, 1045-1046.	0.7	0
24	Chemical ablation of the Purkinje system causes early termination and activation rate slowing of long-duration ventricular fibrillation in dogs. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 295, H883-H889.	3.2	79
25	Activation Patterns of Purkinje Fibers During Long-Duration Ventricular Fibrillation in an Isolated Canine Heart Model. Circulation, 2007, 116, 1113-1119.	1.6	92
26	Ventricular fibrillation: Discordant alternans and discordant results. Heart Rhythm, 2007, 4, 1069-1071.	0.7	0
27	Panoramic Optical Mapping Reveals Continuous Epicardial Reentry during Ventricular Fibrillation in the Isolated Swine Heart. Biophysical Journal, 2007, 92, 1090-1095.	0.5	36
28	Optical mapping of Langendorff-perfused human hearts: establishing a model for the study of ventricular fibrillation in humans. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H875-H880.	3.2	109
29	Epicardial rotors in panoramic optical maps of fibrillating swine ventricles. , 2006, 2006, 2268-71.		7
30	Lifetimes of epicardial rotors in panoramic optical maps of fibrillating swine ventricles. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H1935-H1941.	3.2	68
31	Human Ventricular Fibrillation. Circulation, 2006, 114, 530-532.	1.6	31
32	Mechanisms for the Maintenance of Ventricular Fibrillation: The Nonuniform Dispersion of Refractoriness, Restitution Properties, or Anatomic Heterogeneities?. Journal of Cardiovascular Electrophysiology, 2005, 16, 888-897.	1.7	16
33	Quantification of activation patterns during ventricular fibrillation in open-chest porcine left ventricle and septum. Heart Rhythm, 2005, 2, 720-728.	0.7	29
34	Combined Phase Singularity and Wavefront Analysis for Optical Maps of Ventricular Fibrillation. IEEE Transactions on Biomedical Engineering, 2004, 51, 56-65.	4.2	48
35	Three-Dimensional Surface Reconstruction and Panoramic Optical Mapping of Large Hearts. IEEE Transactions on Biomedical Engineering, 2004, 51, 1219-1229.	4.2	55
36	Comparison of Conventional and Biventricular Antitachycardia Pacing in a Geometrically Realistic Model of the Rabbit Ventricle. Journal of Cardiovascular Electrophysiology, 2004, 15, 1066-1077.	1.7	24

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37	Types of Ventricular Fibrillation:. Journal of Cardiovascular Electrophysiology, 2004, 15, 1441-1443.	1.7	11
38	Epicardial organization of human ventricular fibrillation. Heart Rhythm, 2004, 1, 14-23.	0.7	58
39	Evolution of activation patterns during long-duration ventricular fibrillation in dogs. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H1193-H1200.	3.2	66
40	Mapping a Moving Target. Journal of Cardiovascular Electrophysiology, 2003, 14, 1085-1086.	1.7	1
41	Sustained Reentry in the Left Ventricle of Fibrillating Pig Hearts. Circulation Research, 2003, 92, 539-545.	4.5	39
42	Effects of heart isolation, voltage-sensitive dye, and electromechanical uncoupling agents on ventricular fibrillation. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 284, H1818-H1826.	3.2	56
43	Wave front fragmentation due to ventricular geometry in a model of the rabbit heart. Chaos, 2002, 12, 779-787.	2.5	44
44	Regional Differences in Ventricular Fibrillation in the Open-Chest Porcine Left Ventricle. Circulation Research, 2002, 91, 733-740.	4.5	47
45	Endocardial wave front organization during ventricular fibrillation in humans. Journal of the American College of Cardiology, 2002, 39, 109-115.	2.8	20
46	The effects of acute and chronic amiodarone on activation patterns and defibrillation threshold during ventricular fibrillation in dogs. Journal of the American College of Cardiology, 2002, 40, 375-383.	2.8	33
47	Fiberglass needle electrodes for transmural cardiac mapping. IEEE Transactions on Biomedical Engineering, 2002, 49, 1639-1641.	4.2	45
48	Steepness of the Restitution Curve: A Slippery Slope?. Journal of Cardiovascular Electrophysiology, 2002, 13, 1173-1175.	1.7	28
49	Pacing During Ventricular Fibrillation: Factors Influencing the Ability to Capture. Journal of Cardiovascular Electrophysiology, 2001, 12, 76-84.	1.7	26
50	Reduction in Atrial Defibrillation Threshold by a Single Linear Ablation Lesion. Journal of Cardiovascular Electrophysiology, 2001, 12, 463-471.	1.7	5
51	Improvement of Defibrillation Efficacy and Quantification of Activation Patterns During Ventricular Fibrillation in a Canine Heart Failure Model. Circulation, 2001, 103, 1473-1478.	1.6	37
52	Fibrillation is More Complex in the Left Ventricle than in the Right Ventricle. Journal of Cardiovascular Electrophysiology, 2000, 11, 1364-1371.	1.7	39
53	Controlled postcardioplegia reperfusionMechanism for attenuation of reperfusion injury. Journal of Thoracic and Cardiovascular Surgery, 2000, 119, 1093-1101.	0.8	8
54	Fibrillating Myocardium. Circulation Research, 2000, 86, 369-370.	4.5	24

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55	Incidence, Evolution, and Spatial Distribution of Functional Reentry During Ventricular Fibrillation in Pigs. Circulation Research, 1999, 84, 945-954.	4.5	83
56	Evolution of the Organization of Epicardial Activation Patterns During Ventricular Fibrillation. Journal of Cardiovascular Electrophysiology, 1998, 9, 1291-1304.	1.7	44
57	Estimation of conduction velocity vector fields from epicardial mapping data. IEEE Transactions on Biomedical Engineering, 1998, 45, 563-571.	4.2	246
58	Locally Propagated Activation Immediately After Internal Defibrillation. Circulation, 1998, 97, 1401-1410.	1.6	54
59	A quantitative framework for analyzing epicardial activation patterns during ventricular fibrillation. Annals of Biomedical Engineering, 1997, 25, 749-760.	2.5	56
60	Recurrent wavefront morphologies: A method for quantifying the complexity of epicardial activation patterns. Annals of Biomedical Engineering, 1997, 25, 761-768.	2.5	45
61	Nonuniform Muscle Fiber Orientation Causes Spiral Wave Drift in a Finite Element Model of Cardiac Action Potential Propagation. Journal of Cardiovascular Electrophysiology, 1994, 5, 496-509.	1.7	58
62	A collocation-Galerkin finite element model of cardiac action potential propagation. IEEE Transactions on Biomedical Engineering, 1994, 41, 743-757.	4.2	338