Shahriar Iravanian

List of Publications by Year
in descending order

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46	566	759190 12	642715 23
papers	citations	h-index	g-index

54	54	54	853
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hands-on defibrillation with safety drapes: Analysis of compressions and an alternate current pathway. American Journal of Emergency Medicine, 2022, 52, 132-136.	1.6	1
2	Methodology for Cross-Talk Elimination in Simultaneous Voltage and Calcium Optical Mapping Measurements With Semasbestic Wavelengths. Frontiers in Physiology, 2022, 13, 812968.	2.8	6
3	PO-705-01 ACTION POTENTIAL RESTITUTION CURVES OBTAINED FROM FULL EXPLANTED HUMAN HEARTS. Heart Rhythm, 2022, 19, S453-S454.	0.7	0
4	PO-616-06 THE SPATIOTEMPORAL ORGANIZATION OF VENTRICULAR FIBRILLATION (VF) IN EXPLANTED HUMAN HEARTS. Heart Rhythm, 2022, 19, S112-S113.	0.7	0
5	BS-516-02 OPTICAL MAPPING OF EXPLANTED HUMAN HEARTS ENABLES REFINED IONIC MODELS OF ACTION POTENTIAL AND CONDUCTION VELOCITY RESTITUTION CURVES FOR ARRHYTHMIA SIMULATION. Heart Rhythm, 2022, 19, S83-S84.	0.7	0
6	PO-691-07 SIMULTANEOUS OPTICAL MAPPING MEASUREMENTS OF VOLTAGE AND CALCIUM IN WHOLE EXPLANTED HUMAN HEARTS. Heart Rhythm, 2022, 19, S401.	0.7	0
7	Experience using multielectrode cardiac catheters for detection of electrophysiologic activity of the human urinary bladder. Neurourology and Urodynamics, 2021, 40, 80-84.	1.5	0
8	Quantifying arrhythmic long QT effects of hydroxychloroquine and azithromycin with whole-heart optical mapping and simulations. Heart Rhythm O2, 2021, 2, 394-404.	1.7	16
9	Interactive Simulation of the ECG: Effects of Cell Types, Distributions, Shapes and Duration. , 2021, , .		0
10	Unimapper: An Online Interactive Analyzer/Visualizer of Optical Mapping Experimental Data. , 2021, , .		1
11	Interactive 3D Human Heart Simulations on Segmented Human MRI Hearts. , 2021, , .		2
12	Not all Long-QTs Are The Same, Proarrhytmic Quantification with Action Potential Triangulation and Alternans. , 2021, , .		0
13	Generation of Monophasic Action Potentials and Intermediate Forms. Biophysical Journal, 2020, 119, 460-469.	0.5	2
14	HANDS-ON DEFIBRILLATION WITH SAFETY DRAPES: MOVING CLOSER TO CLINICAL PRACTICE. Journal of the American College of Cardiology, 2020, 75, 454.	2.8	0
15	Fatal arrhythmias: Another reason why doctors remain cautious about chloroquine/hydroxychloroquine for treating COVID-19. Heart Rhythm, 2020, 17, 1445-1451.	0.7	25
16	Theoretical Modeling and Experimental Detection of the Extracellular Phasic Impedance Modulation in Rabbit Hearts. Frontiers in Physiology, 2019, 10, 883.	2.8	2
17	Hands-on defibrillation with a safety barrier: An analysis of potential risk to rescuers. Resuscitation, 2019, 138, 110-113.	3.0	7
18	A review of bioelectrodes for clinical electrophysiologists. Heart Rhythm, 2019, 16, 460-469.	0.7	4

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19	A Comprehensive Comparison of GPU Implementations of Cardiac Electrophysiology Models. Lecture Notes in Computer Science, 2019, , 9-34.	1.3	6
20	fib-tf: A TensorFlow-based Cardiac Electrophysiology Simulator. Journal of Open Source Software, 2018, 3, 719.	4.6	1
21	Critical phase transitions during ablation of atrial fibrillation. Chaos, 2017, 27, 093925.	2.5	5
22	Clinical and anatomic predictors of need for repeat atrial fibrillation ablation. World Journal of Cardiology, 2017, 9, 742-748.	1.5	3
23	Pulmonary vein anatomy assessed by cardiac magnetic resonance imaging in patients undergoing initial atrial fibrillation ablation: implications for novel ablation technologies. Journal of Interventional Cardiac Electrophysiology, 2016, 46, 89-96.	1.3	10
24	Pulmonary Vein Remodeling Following Atrial Fibrillation Ablation: Implications For The Radiographic Diagnosis Of Pulmonary Vein Stenosis. Journal of Atrial Fibrillation, 2016, 9, 1453.	0.5	1
25	Spatiotemporal organization during ablation of persistent atrial fibrillation. Heart Rhythm, 2015, 12, 1937-1944.	0.7	6
26	Relationship between mechanical dyssynchrony and intra-operative electrical delay times in patients undergoing cardiac resynchronization therapy. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 4.	3.3	14
27	Relationship between MRI-based mechanical activation delays and direct intraoperative measurements of electrical delay in patients undergoing cardiac resynchronization. Journal of Cardiovascular Magnetic Resonance, 2013, 15, P63.	3.3	0
28	Left atrial flutter accelerates during ablation of atrial fibrillation: a paradoxical effect of electrical remodelling. Europace, 2012, 14, 761-766.	1.7	4
29	â€œECG Concealmentâ€•During Left Atrial Flutter with 2:1 Entrance Block into the Right Atrium. Journal of Cardiovascular Electrophysiology, 2012, 23, 221-222.	1.7	0
30	A Class of Monte-Carlo-Based Statistical Algorithms for Efficient Detection of Repolarization Alternans. IEEE Transactions on Biomedical Engineering, 2012, 59, 1882-1891.	4.2	7
31	Inhibition of c-Src Tyrosine Kinase Prevents Angiotensin Iiâ€“Mediated Connexin-43 Remodeling and Sudden Cardiac Death. Journal of the American College of Cardiology, 2011, 58, 2332-2339.	2.8	73
32	Control of Action Potential Duration Alternans in Canine Cardiac Ventricular Tissue. IEEE Transactions on Biomedical Engineering, 2011, 58, 894-904.	4.2	18
33	Inhibition of renin-angiotensin system (RAS) reduces ventricular tachycardia risk by altering connexin43. Journal of Molecular Medicine, 2011, 89, 677-687.	3.9	24
34	Control of action potential duration alternans in canine ventricular tissue. , 2010, 2010, 1997-2000.		4
35	CATHETER ABLATION OF ATRIAL FIBRILLATION IS ASSOCIATED WITH SIGNIFICANT REDUCTION IN LEFT ATRIAL AND PULMONARY VEIN DIMENSIONS. Journal of the American College of Cardiology, 2010, 55, A9.E91.	2.8	0
36	Representation of Collective Electrical Behavior of Cardiac Cell Sheets. Biophysical Journal, 2008, 95, 1138-1150.	0.5	14

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37	The renin-angiotensin-aldosterone system (RAAS) and cardiac arrhythmias. Heart Rhythm, 2008, 5, S12-S17.	0.7	117
38	Optical mapping system with real-time control capability. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H2605-H2611.	3.2	9
39	Cardiac-restricted angiotensin-converting enzyme overexpression causes conduction defects and connexin dysregulation. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H182-H192.	3.2	57
40	Abstract 1088: Prevention of Connexin 43 (Cx43) Dephosphorylation is Associated with Reduced Ventricular Tachycardia in Cardiac-Specific Angiotensin Converting Enzyme (ACE) Overexpression Mice. Circulation, 2007, 116, .	1.6	1
41	P6-16. Heart Rhythm, 2006, 3, S306-S307.	0.7	0
42	A possible mechanism of halocarbon-induced cardiac sensitization arrhythmias. Journal of Molecular and Cellular Cardiology, 2006, 41, 698-705.	1.9	25
43	Oxidative Stress and the Pathogenesis of Atrial Fibrillation. Current Cardiology Reviews, 2006, 2, 247-254.	1.5	10
44	Role of Electrophysiologic Studies, Signalâ€Averaged Electrocardiography, Heart Rate Variability, Tâ€Wave Alternans, and Loop Recorders for Risk Stratification of Ventricular Arrhythmias. The American Journal of Geriatric Cardiology, 2005, 14, 16-19.	0.6	7
45	Functional reentry in cultured monolayers of neonatal rat cardiac cells. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 285, H449-H456.	3.2	55
46	A novel algorithm for cardiac biosignal filtering based on filtered residue method. IEEE Transactions on Biomedical Engineering, 2002, 49, 1310-1317.	4.2	27