Sharon Zlochiver

List of Publications by Year
in descending order

40	1,610	516710 16	315739 38
papers	citations	h-index	g-index

43	43	43	1596
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Novel mapping techniques for rotor core detection using simulated intracardiac electrograms. Journal of Cardiovascular Electrophysiology, 2021, 32, 1268-1280.	1.7	8
2	Global vs local control of cardiac alternans in a 1D numerical model of human ventricular tissue. Chaos, 2020, 30, 083123.	2.5	4
3	Cardiac spiral wave drifting due to spatial temperature gradients â€“ A numerical study. Medical Engineering and Physics, 2018, 61, 69-80.	1.7	5
4	Mechano-electric feedback effects in a three-dimensional (3D) model of the contracting cardiac ventricle. PLoS ONE, 2018, 13, e0191238.	2.5	10
5	Constant DI pacing suppresses cardiac alternans formation in numerical cable models. Chaos, 2017, 27, 093903.	2.5	17
6	Computational and Mathematical Methods in Cardiovascular Diseases. Computational and Mathematical Methods in Medicine, 2017, 2017, 1-2.	1.3	3
7	Modulation of cardiac pacemaker inter beat intervals by sinoatrial fibroblasts â€” A numerical study. , 2016, 2016, 165-168.		8
8	The Multi-Domain Fibroblast/Myocyte Coupling in the Cardiac Tissue: A Theoretical Study. Cardiovascular Engineering and Technology, 2016, 7, 290-304.	1.6	7
9	Termination of atrial spiral waves by traction into peripheral non 1:1 conducting regions â€“ A numerical study. Medical Engineering and Physics, 2016, 38, 1322-1329.	1.7	0
10	A Genetic Algorithm Optimization Method for Mapping Non-Conducting Atrial Regions: A Theoretical Feasibility Study. Cardiovascular Engineering and Technology, 2016, 7, 87-101.	1.6	2
11	Detection of Abnormal Cardiac Activity Using Principal Component Analysisâ€“A Theoretical Study. IEEE Transactions on Biomedical Engineering, 2015, 62, 154-164.	4.2	9
12	Interbeat Interval Modulation in the Sinoatrial Node as a Result of Membrane Current Stochasticityâ€”A Theoretical and Numerical Study. Biophysical Journal, 2015, 108, 1281-1292.	0.5	8
13	Multiscale Interactions in a 3D Model of the Contracting Ventricle. Cardiovascular Engineering and Technology, 2015, 6, 401-411.	1.6	1
14	The Interrelations among Stochastic Pacing, Stability, and Memory in the Heart. Biophysical Journal, 2014, 107, 1023-1034.	0.5	14
15	Attraction of Rotors to the Pulmonary Veins in Paroxysmal Atrial Fibrillation: A Modeling Study. Biophysical Journal, 2014, 106, 1811-1821.	0.5	35
16	Stochastic Cardiac Pacing Increases Ventricular Electrical Stabilityâ€”A Computational Study. Biophysical Journal, 2013, 105, 533-542.	0.5	25
17	Modulation of Spiral-Wave Dynamics and Spontaneous Activity in a Fibroblast/Myocyte Heterocellular Tissueâ€“A Computational Study. IEEE Transactions on Biomedical Engineering, 2012, 59, 1398-1407.	4.2	21
18	Biopsy Needle Localization Using Magnetic Induction Imaging Principles: A Feasibility Study. IEEE Transactions on Biomedical Engineering, 2012, 59, 2330-2337.	4.2	3

#	Article	IF	Citations
19	Heart rate variability effect on the myocyte action potential duration restitution: Insights from switched systems theory. , 2011, 2011, 685-8.		5
20	Mechanisms of Fractionated Electrograms Formation in the Posterior Left Atrium During Paroxysmal Atrial Fibrillation in Humans. Journal of the American College of Cardiology, 2011, 57, 1081-1092.	2.8	105
21	Subthreshold Parameters of Cardiac Tissue in a Bi-Layer Computer Model of Heart Failure. Cardiovascular Engineering (Dordrecht, Netherlands), 2010, 10, 190-200.	1.0	5
22	Persistent reflection underlies ectopic activity in multiple sclerosis: a numerical study. Biological Cybernetics, 2010, 102, 181-196.	1.3	5
23	Estimating pulmonary congestion in elderly patients using bio-impedance technique: Correlation with clinical examination and X-ray results. Medical Engineering and Physics, 2009, 31, 959-963.	1.7	7
24	Real-time dominant frequency mapping and ablation of dominant frequency sites in atrial fibrillation with left-to-right frequency gradients predicts long-term maintenance of sinus rhythm. Heart Rhythm, 2009, 6, 33-40.	0.7	319
25	A Novel Telemedicine System for Monitoring Congestive Heart Failure Patients. Congestive Heart Failure, 2008, 14, 239-244.	2.0	7
26	Electrotonic Myofibroblast-to-Myocyte Coupling Increases Propensity to Reentrant Arrhythmias in Two-Dimensional Cardiac Monolayers. Biophysical Journal, 2008, 95, 4469-4480.	0.5	210
27	Reentry in an accessory atrioventricular pathway as a trigger for atrial fibrillation initiation in manifest Wolff-Parkinson-White syndrome: A matter of reflection?. Heart Rhythm, 2008, 5, 1238-1247.	0.7	15
28	Rotor meandering contributes to irregularity in electrograms during atrial fibrillation. Heart Rhythm, 2008, 5, 846-854.	0.7	157
29	Atrial Septopulmonary Bundle of the Posterior Left Atrium Provides a Substrate for Atrial Fibrillation Initiation in a Model of Vagally Mediated Pulmonary Vein Tachycardia of the Structurally Normal Heart. Circulation: Arrhythmia and Electrophysiology, 2008, 1, 175-183.	4.8	87
30	Spatial Distribution of Fibrosis Governs Fibrillation Wave Dynamics in the Posterior Left Atrium During Heart Failure. Circulation Research, 2007, 101, 839-847.	4.5	297
31	Endoscopic fluorescence mapping of the left atrium: A novel experimental approach for high resolution endocardial mapping in the intact heart. Heart Rhythm, 2007, 4, 916-924.	0.7	23
32	A portable bio-impedance system for monitoring lung resistivity. Medical Engineering and Physics, 2007, 29, 93-100.	1.7	54
33	Parametric EIT for monitoring cardiac stroke volume. Physiological Measurement, 2006, 27, S139-S146.	2.1	44
34	Induced Current Bio-impedance Technique for Monitoring Bone Mineral Densityâ€"A Simulation Model. Annals of Biomedical Engineering, 2006, 34, 1332-1342.	2.5	9
35	Monitoring Lung Resistivity Changes in Congestive Heart Failure Patients Using the Bioimpedance Technique. Congestive Heart Failure, 2005, 11, 289-293.	2.0	14
36	Induced Current Bio-Impedance Technique for Monitoring Cryosurgery Procedure in a Two-Dimensional Head Model Using Generalized Coordinate Systems. IEEE Transactions on Biomedical Engineering, 2005, 52, 1361-1365.	4.2	1

#	Article	IF	Citations
37	Contactless Bio-Impedance Monitoring Technique for Brain Cryosurgery in a 3D Head Model. Annals of Biomedical Engineering, 2005, 33, 616-625.	2.5	8
38	Induced current electrical impedance tomography system: experimental results and numerical simulations. Physiological Measurement, 2004, 25, 239-255.	2.1	17
39	Induced-current electrical impedance tomography: a 2-d theoretical simulation. IEEE Transactions on Medical Imaging, 2003, 22, 1550-1560.	8.9	20
40	Induced Current Impedance Technique for Monitoring Brain Cryosurgery in a Two-Dimensional Model of the Head. Annals of Biomedical Engineering, 2002, 30, 1172-1180.	2.5	18