

Rebecca A B Burton

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2827966/rebecca-a-b-burton-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39
papers

1,263
citations

17
h-index

35
g-index

47
ext. papers

1,593
ext. citations

5.2
avg, IF

3.88
L-index

#	Paper	IF	Citations
39	COSMAS: a lightweight toolbox for cardiac optical mapping analysis. <i>Scientific Reports</i> , 2021 , 11, 9147	4.9	5
38	Cardiac TdP risk stratification modelling of anti-infective compounds including chloroquine and hydroxychloroquine. <i>Royal Society Open Science</i> , 2021 , 8, 210235	3.3	3
37	IP-mediated Ca release regulates atrial Ca transients and pacemaker function by stimulation of adenylyl cyclases. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021 , 320, H95-H107	5.2	6
36	Emerging Evidence for cAMP-calcium Cross Talk in Heart Atrial Nanodomains Where IP3-Evoked Calcium Release Stimulates Adenylyl Cyclases. <i>Contact (Thousand Oaks (Ventura County, Calif))</i> , 2021 , 4, 251525642110083	2.6	2
35	A modified density gradient proteomic-based method to analyze endolysosomal proteins in cardiac tissue. <i>IScience</i> , 2021 , 24, 102949	6.1	0
34	Optical Interrogation of Sympathetic Neuronal Effects on Macroscopic Cardiomyocyte Network Dynamics. <i>IScience</i> , 2020 , 23, 101334	6.1	8
33	Combining tissue engineering and optical imaging approaches to explore interactions along the neuro-cardiac axis. <i>Royal Society Open Science</i> , 2020 , 7, 200265	3.3	2
32	Synaptic Plasticity in Cardiac Innervation and Its Potential Role in Atrial Fibrillation. <i>Frontiers in Physiology</i> , 2018 , 9, 240	4.6	16
31	Highly trabeculated structure of the human endocardium underlies asymmetrical response to low-energy monophasic shocks. <i>Chaos</i> , 2017 , 27, 093913	3.3	4
30	Caveolae in Rabbit Ventricular Myocytes: Distribution and Dynamic Diminution after Cell Isolation. <i>Biophysical Journal</i> , 2017 , 113, 1047-1059	2.9	23
29	High resolution structural evidence suggests the Sarcoplasmic Reticulum forms microdomains with Acidic Stores (lysosomes) in the heart. <i>Scientific Reports</i> , 2017 , 7, 40620	4.9	36
28	Mapping cardiac microstructure of rabbit heart in different mechanical states by high resolution diffusion tensor imaging: A proof-of-principle study. <i>Progress in Biophysics and Molecular Biology</i> , 2016 , 121, 85-96	4.7	17
27	Ccoeffinn: Automated Wave Tracking in Cultured Cardiac Monolayers. <i>Biophysical Journal</i> , 2016 , 111, 1595-1599	4.5	96
26	Resolving Fine Cardiac Structures in Rats with High-Resolution Diffusion Tensor Imaging. <i>Scientific Reports</i> , 2016 , 6, 30573	4.9	33
25	Optical control of excitation waves in cardiac tissue. <i>Nature Photonics</i> , 2015 , 9, 813-816	33.9	81
24	Two-pore Channels (TPC2s) and Nicotinic Acid Adenine Dinucleotide Phosphate (NAADP) at Lysosomal-Sarcoplasmic Reticular Junctions Contribute to Acute and Chronic β Adrenoceptor Signaling in the Heart. <i>Journal of Biological Chemistry</i> , 2015 , 290, 30087-98	5.4	44
23	Hydroxychloroquine reduces heart rate by modulating the hyperpolarization-activated current If: Novel electrophysiological insights and therapeutic potential. <i>Heart Rhythm</i> , 2015 , 12, 2186-94	6.7	92

22	Macro-micro imaging of cardiac-neural circuits in co-cultures from normal and diseased hearts. <i>Journal of Physiology</i> , 2015 , 593, 3047-53	3.9	2
21	Mechanism of reentry induction by a 9-V battery in rabbit ventricles. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 306, H1041-53	5.2	6
20	Quantifying distortions in two-photon remote focussing microscope images using a volumetric calibration specimen. <i>Frontiers in Physiology</i> , 2014 , 5, 384	4.6	8
19	Three-dimensional histology: tools and application to quantitative assessment of cell-type distribution in rabbit heart. <i>Europace</i> , 2014 , 16 Suppl 4, iv86-iv95	3.9	12
18	Fast measurement of sarcomere length and cell orientation in Langendorff-perfused hearts using remote focusing microscopy. <i>Circulation Research</i> , 2013 , 113, 863-70	15.7	22
17	Rearrangement of atrial bundle architecture and consequent changes in anisotropy of conduction constitute the 3-dimensional substrate for atrial fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2013 , 6, 967-75	6.4	46
16	Histo-anatomical structure of the living isolated rat heart in two contraction states assessed by diffusion tensor MRI. <i>Progress in Biophysics and Molecular Biology</i> , 2012 , 110, 319-30	4.7	81
15	Resolving the Three-Dimensional Histology of the Heart. <i>Lecture Notes in Computer Science</i> , 2012 , 2-16	0.9	1
14	Microscopic magnetic resonance imaging reveals high prevalence of third coronary artery in human and rabbit heart. <i>Europace</i> , 2012 , 14 Suppl 5, v73-v81	3.9	6
13	Minimum Information about a Cardiac Electrophysiology Experiment (MICEE): standardised reporting for model reproducibility, interoperability, and data sharing. <i>Progress in Biophysics and Molecular Biology</i> , 2011 , 107, 4-10	4.7	45
12	Progressive changes in T1 ρ and left-ventricular histo-architecture in the fixed and embedded rat heart. <i>NMR in Biomedicine</i> , 2011 , 24, 836-43	4.4	31
11	Rediscovering the third coronary artery. <i>European Heart Journal</i> , 2011 , 32, 1435-7	9.5	2
10	Development of an anatomically detailed MRI-derived rabbit ventricular model and assessment of its impact on simulations of electrophysiological function. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 298, H699-718	5.2	143
9	Integrated approach for the study of anatomical variability in the cardiac Purkinje system: from high resolution MRI to electrophysiology simulation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 1703-1707	0.9	8
8	Cardiac valve annulus manual segmentation using computer assisted visual feedback in three-dimensional image data. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 738-41	0.9	3
7	Measurement and analysis of sarcomere length in rat cardiomyocytes in situ and in vitro. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 298, H1616-25	5.2	57
6	Towards High-Resolution Cardiac Atlases: Ventricular Anatomy Descriptors for a Standardized Reference Frame. <i>Lecture Notes in Computer Science</i> , 2010 , 75-84	0.9	1
5	Axial stretch of rat single ventricular cardiomyocytes causes an acute and transient increase in Ca ²⁺ spark rate. <i>Circulation Research</i> , 2009 , 104, 787-95	15.7	154

4	Generation of histo-anatomically representative models of the individual heart: tools and application. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 2257-92	3	127
3	The Role of Blood Vessels in Rabbit Propagation Dynamics and Cardiac Arrhythmias. <i>Lecture Notes in Computer Science</i> , 2009 , 268-276	0.9	10
2	AN ITERATIVE METHOD FOR REGISTRATION OF HIGH-RESOLUTION CARDIAC HISTOANATOMICAL AND MRI IMAGES 2007 ,		4
1	Three-dimensional models of individual cardiac histoanatomy: tools and challenges. <i>Annals of the New York Academy of Sciences</i> , 2006 , 1080, 301-19	6.5	79