

Crystal M Ripplinger

List of Publications by Citations

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

65

papers

2,927

citations

27

h-index

54

g-index

85

ext. papers

3,599

ext. citations

7.9

avg, IF

5.1

L-index

#	Paper	IF	Citations
65	A tissue-engineered jellyfish with biomimetic propulsion. <i>Nature Biotechnology</i> , 2012 , 30, 792-7	44.5	419
64	Diabetic hyperglycaemia activates CaMKII and arrhythmias by O-linked glycosylation. <i>Nature</i> , 2013 , 502, 372-6	50.4	382
63	Guidelines for experimental models of myocardial ischemia and infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018 , 314, H812-H838	5.2	249
62	Controlling the contractile strength of engineered cardiac muscle by hierarchical tissue architecture. <i>Biomaterials</i> , 2012 , 33, 5732-41	15.6	166
61	A computational model to predict the effects of class I anti-arrhythmic drugs on ventricular rhythms. <i>Science Translational Medicine</i> , 2011 , 3, 98ra83	17.5	154
60	The crossroads of inflammation, fibrosis, and arrhythmia following myocardial infarction. <i>Journal of Molecular and Cellular Cardiology</i> , 2016 , 91, 114-22	5.8	116
59	Local βadrenergic stimulation overcomes source-sink mismatch to generate focal arrhythmia. <i>Circulation Research</i> , 2012 , 110, 1454-64	15.7	100
58	Optical mapping of sarcoplasmic reticulum Ca ²⁺ in the intact heart: ryanodine receptor refractoriness during alternans and fibrillation. <i>Circulation Research</i> , 2014 , 114, 1410-21	15.7	93
57	Ion Channels in the Heart. <i>Comprehensive Physiology</i> , 2015 , 5, 1423-64	7.7	93
56	Resolution of established cardiac hypertrophy and fibrosis and prevention of systolic dysfunction in a transgenic rabbit model of human cardiomyopathy through thiol-sensitive mechanisms. <i>Circulation</i> , 2009 , 119, 1398-407	16.7	88
55	Mechanisms of unpinning and termination of ventricular tachycardia. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 291, H184-92	5.2	63
54	Molecular and cellular neurocardiology: development, and cellular and molecular adaptations to heart disease. <i>Journal of Physiology</i> , 2016 , 594, 3853-75	3.9	58
53	Panoramic imaging reveals basic mechanisms of induction and termination of ventricular tachycardia in rabbit heart with chronic infarction: implications for low-voltage cardioversion. <i>Heart Rhythm</i> , 2009 , 6, 87-97	6.7	56
52	Potassium currents in the heart: functional roles in repolarization, arrhythmia and therapeutics. <i>Journal of Physiology</i> , 2017 , 595, 2229-2252	3.9	51
51	Atherosclerosis exacerbates arrhythmia following myocardial infarction: Role of myocardial inflammation. <i>Heart Rhythm</i> , 2015 , 12, 169-78	6.7	50
50	Enhanced transmural fiber rotation and connexin 43 heterogeneity are associated with an increased upper limit of vulnerability in a transgenic rabbit model of human hypertrophic cardiomyopathy. <i>Circulation Research</i> , 2007 , 101, 1049-57	15.7	50
49	Multiple monophasic shocks improve electrotherapy of ventricular tachycardia in a rabbit model of chronic infarction. <i>Heart Rhythm</i> , 2009 , 6, 1020-7	6.7	46

48	Molecular Mechanisms of Sympathetic Remodeling and Arrhythmias. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2016 , 9, e001359	6.4	42
47	Antiarrhythmic effects of interleukin 1 inhibition after myocardial infarction. <i>Heart Rhythm</i> , 2017 , 14, 727-736	6.7	40
46	Three-dimensional panoramic imaging of cardiac arrhythmias in rabbit heart. <i>Journal of Biomedical Optics</i> , 2007 , 12, 044019	3.5	40
45	Functional differences in engineered myocardium from embryonic stem cell-derived versus neonatal cardiomyocytes. <i>Stem Cell Reports</i> , 2013 , 1, 387-96	8	39
44	The nervous heart. <i>Progress in Biophysics and Molecular Biology</i> , 2016 , 120, 199-209	4.7	36
43	Termination of sustained atrial flutter and fibrillation using low-voltage multiple-shock therapy. <i>Heart Rhythm</i> , 2011 , 8, 101-8	6.7	36
42	<i>P. gingivalis</i> lipopolysaccharide intensifies inflammation post-myocardial infarction through matrix metalloproteinase-9. <i>Journal of Molecular and Cellular Cardiology</i> , 2014 , 76, 218-26	5.8	34
41	Myocardial Infarction Causes Transient Cholinergic Transdifferentiation of Cardiac Sympathetic Nerves via gp130. <i>Journal of Neuroscience</i> , 2016 , 36, 479-88	6.6	32
40	Molecular Mechanisms and New Treatment Paradigm for Atrial Fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2016 , 9,	6.4	31
39	Antiarrhythmic mechanisms of beta blocker therapy. <i>Pharmacological Research</i> , 2019 , 146, 104274	10.2	27
38	In vivo fluorescence reflectance imaging of protease activity in a mouse model of post-traumatic osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2014 , 22, 1461-9	6.2	25
37	Decreased inward rectifying K ⁺ current and increased ryanodine receptor sensitivity synergistically contribute to sustained focal arrhythmia in the intact rabbit heart. <i>Journal of Physiology</i> , 2015 , 593, 1479-93	3.9	24
36	Inflammation modulates murine venous thrombosis resolution in vivo: assessment by multimodal fluorescence molecular imaging. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012 , 32, 2616-24	9.4	24
35	Quantitative panoramic imaging of epicardial electrical activity. <i>Annals of Biomedical Engineering</i> , 2008 , 36, 1649-58	4.7	23
34	Virtual electrode hypothesis of defibrillation. <i>Heart Rhythm</i> , 2006 , 3, 1100-2	6.7	23
33	Age-related changes in cardiac electrophysiology and calcium handling in response to sympathetic nerve stimulation. <i>Journal of Physiology</i> , 2018 , 596, 3977-3991	3.9	21
32	Exogenous CXCL4 infusion inhibits macrophage phagocytosis by limiting CD36 signalling to enhance post-myocardial infarction cardiac dilation and mortality. <i>Cardiovascular Research</i> , 2019 , 115, 395-408	9.9	18
31	Contractile and electrophysiologic characterization of optimized self-organizing engineered heart tissue. <i>Annals of Thoracic Surgery</i> , 2012 , 94, 1241-8; discussion 1249	2.7	17

30	Cardiac myocyte alternans in intact heart: Influence of cell-cell coupling and β adrenergic stimulation. <i>Journal of Molecular and Cellular Cardiology</i> , 2015 , 84, 1-9	5.8	14
29	Cardiac sympathetic nerve transdifferentiation reduces action potential heterogeneity after myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020 , 318, H558-H565	5.2	14
28	Different paths, same destination: divergent action potential responses produce conserved cardiac fight-or-flight response in mouse and rabbit hearts. <i>Journal of Physiology</i> , 2019 , 597, 3867-3883	3.9	11
27	Aging Disrupts Normal Time-of-Day Variation in Cardiac Electrophysiology. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020 , 13, e008093	6.4	9
26	Transient denervation of viable myocardium after myocardial infarction does not alter arrhythmia susceptibility. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018 , 314, H415-H423	5.2	8
25	Adrenergic supersensitivity and impaired neural control of cardiac electrophysiology following regional cardiac sympathetic nerve loss. <i>Scientific Reports</i> , 2020 , 10, 18801	4.9	8
24	CaMKII Serine 280 O-GlcNAcylation Links Diabetic Hyperglycemia to Proarrhythmia. <i>Circulation Research</i> , 2021 , 129, 98-113	15.7	8
23	Calcium-Dependent Arrhythmogenic Foci Created by Weakly Coupled Myocytes in the Failing Heart. <i>Circulation Research</i> , 2017 , 121, 1379-1391	15.7	7
22	Optical Mapping of Intra-Sarcoplasmic Reticulum Ca ²⁺ and Transmembrane Potential in the Langendorff-perfused Rabbit Heart. <i>Journal of Visualized Experiments</i> , 2015 ,	1.6	7
21	Guidelines for in vivo mouse models of myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021 , 321, H1056-H1073	5.2	7
20	Exposure to Secondhand Smoke and Arrhythmogenic Cardiac Alternans in a Mouse Model. <i>Environmental Health Perspectives</i> , 2018 , 126, 127001	8.4	7
19	β Adrenergic Inhibition Prevents Action Potential and Calcium Handling Changes during Regional Myocardial Ischemia. <i>Frontiers in Physiology</i> , 2017 , 8, 630	4.6	5
18	Quantitative cross-species translators of cardiac myocyte electrophysiology: Model training, experimental validation, and applications. <i>Science Advances</i> , 2021 , 7, eabg0927	14.3	4
17	Effects of pacing rate on mechanical restitution within the in vivo canine heart: study of the force-frequency relationship. <i>Journal of Cardiovascular Electrophysiology</i> , 2007 , 18, 212-7	2.7	3
16	Stop the beat to see the rhythm: excitation-contraction uncoupling in cardiac research. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021 , 321, H1005-H1013	5.2	3
15	Role of Reduced Sarco-Endoplasmic Reticulum Ca-ATPase Function on Sarcoplasmic Reticulum Ca Alternans in the Intact Rabbit Heart. <i>Frontiers in Physiology</i> , 2021 , 12, 656516	4.6	3
14	Research Opportunities in Autonomic Neural Mechanisms of Cardiopulmonary Regulation: A Report From the National Heart, Lung, and Blood Institute and The National Institutes of Health Office of the Director Workshop. <i>JACC Basic To Translational Science</i> , 2022 , 7, 265-293	8.7	2
13	Optical Mapping of Sarcoplasmic Reticulum Ca ²⁺ and Transmembrane Potential in the Intact Heart 2019 , 313-320		1

12	The best thing since sliced bread? Optical mapping of transverse cardiac slices in the mouse heart. <i>Journal of Physiology</i> , 2018 , 596, 3825-3826	3.9	1
11	Panoramic Optical Imaging of Cardiac Arrhythmias 2012 , 90-97		1
10	Deciphering cellular signals in adult mouse sinoatrial node cells.. <i>iScience</i> , 2022 , 25, 103693	6.1	1
9	Understanding Circadian Mechanisms of Sudden Cardiac Death: A Report From the National Heart, Lung, and Blood Institute Workshop, Part 1: Basic and Translational Aspects. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2021 , 14, e010181	6.4	1
8	Understanding Circadian Mechanisms of Sudden Cardiac Death: A Report From the National Heart, Lung, and Blood Institute Workshop, Part 2: Population and Clinical Considerations. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2021 , 14, e010190	6.4	0
7	Systemic bone loss following myocardial infarction in mice. <i>Journal of Orthopaedic Research</i> , 2021 , 39, 739-749	3.8	0
6	Automated Object Detection in Experimental Data Using Combination of Unsupervised and Supervised Methods.. <i>Frontiers in Physiology</i> , 2022 , 13, 805161	4.6	0
5	Optical Mapping of Successful and Failed Defibrillation 2019 , 448-463		
4	A leap(frog) forward in understanding focal arrhythmia. <i>Journal of Physiology</i> , 2015 , 593, 1383-4	3.9	
3	Imaging Fiber Orientation with Optical Coherence Tomography and Diffusion-Tensor Magnetic Resonance Imaging and its Role in Arrhythmogenesis 2012 , 589-597		
2	Tornado in a dish: revealing the mechanisms of ventricular arrhythmias in engineered cardiac tissues. <i>Cardiovascular Research</i> , 2006 , 69, 307-8	9.9	
1	Age-related changes in sympathetic responsiveness and cardiac electrophysiology. <i>FASEB Journal</i> , 2018 , 32, 901.13	0.9	