

Crystal M Ripplinger

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

4,116
citations

147566

31
h-index

123241

61
g-index

85
all docs

85
docs citations

85
times ranked

6328
citing authors

#	ARTICLE	IF	CITATIONS
1	A tissue-engineered jellyfish with biomimetic propulsion. <i>Nature Biotechnology</i> , 2012, 30, 792-797.	9.4	536
2	Diabetic hyperglycaemia activates CaMKII and arrhythmias by O-linked glycosylation. <i>Nature</i> , 2013, 502, 372-376.	13.7	495
3	Guidelines for experimental models of myocardial ischemia and infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 314, H812-H838.	1.5	372
4	Controlling the contractile strength of engineered cardiac muscle by hierarchical tissue architecture. <i>Biomaterials</i> , 2012, 33, 5732-5741.	5.7	195
5	A Computational Model to Predict the Effects of Class I Anti-Arrhythmic Drugs on Ventricular Rhythms. <i>Science Translational Medicine</i> , 2011, 3, 98ra83.	5.8	183
6	The crossroads of inflammation, fibrosis, and arrhythmia following myocardial infarction. <i>Journal of Molecular and Cellular Cardiology</i> , 2016, 91, 114-122.	0.9	181
7	Ion Channels in the Heart. , 2015, 5, 1423-1464.		135
8	Local β_2 -Adrenergic Stimulation Overcomes Source-Sink Mismatch to Generate Focal Arrhythmia. <i>Circulation Research</i> , 2012, 110, 1454-1464.	2.0	130
9	Optical Mapping of Sarcoplasmic Reticulum Ca ²⁺ in the Intact Heart. <i>Circulation Research</i> , 2014, 114, 1410-1421.	2.0	119
10	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, 1398-1407.	1.6	106
11	Molecular and cellular neurocardiology: development, and cellular and molecular adaptations to heart disease. <i>Journal of Physiology</i> , 2016, 594, 3853-3875.	1.3	85
12	Mechanisms of unpinning and termination of ventricular tachycardia. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H184-H192.	1.5	78
13	Potassium currents in the heart: functional roles in repolarization, arrhythmia and therapeutics. <i>Journal of Physiology</i> , 2017, 595, 2229-2252.	1.3	76
14	Atherosclerosis exacerbates arrhythmia following myocardial infarction: Role of myocardial inflammation. <i>Heart Rhythm</i> , 2015, 12, 169-178.	0.3	67
15	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.	0.3	61
16	Antiarrhythmic effects of interleukin 1 inhibition after myocardial infarction. <i>Heart Rhythm</i> , 2017, 14, 727-736.	0.3	61
17	Molecular Mechanisms of Sympathetic Remodeling and Arrhythmias. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2016, 9, e001359.	2.1	59
18	Antiarrhythmic mechanisms of beta blocker therapy. <i>Pharmacological Research</i> , 2019, 146, 104274.	3.1	58

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19	Multiple monophasic shocks improve electrotherapy of ventricular tachycardia in a rabbit model of chronic infarction. <i>Heart Rhythm</i> , 2009, 6, 1020-1027.	0.3	54
20	Guidelines for in vivo mouse models of myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 321, H1056-H1073.	1.5	53
21	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, 1049-1057.	2.0	50
22	Termination of sustained atrial flutter and fibrillation using low-voltage multiple-shock therapy. <i>Heart Rhythm</i> , 2011, 8, 101-108.	0.3	50
23	Reinforcing rigor and reproducibility expectations for use of sex and gender in cardiovascular research. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 321, H819-H824.	1.5	49
24	Myocardial Infarction Causes Transient Cholinergic Transdifferentiation of Cardiac Sympathetic Nerves via gp130. <i>Journal of Neuroscience</i> , 2016, 36, 479-488.	1.7	46
25	The nervous heart. <i>Progress in Biophysics and Molecular Biology</i> , 2016, 120, 199-209.	1.4	46
26	Three-dimensional panoramic imaging of cardiac arrhythmias in rabbit heart. <i>Journal of Biomedical Optics</i> , 2007, 12, 044019.	1.4	45
27	Quantitative Panoramic Imaging of Epicardial Electrical Activity. <i>Annals of Biomedical Engineering</i> , 2008, 36, 1649-1658.	1.3	45
28	Functional Differences in Engineered Myocardium from Embryonic Stem Cell-Derived versus Neonatal Cardiomyocytes. <i>Stem Cell Reports</i> , 2013, 1, 387-396.	2.3	43
29	<i>P. gingivalis</i> lipopolysaccharide intensifies inflammation post-myocardial infarction through matrix metalloproteinase-9. <i>Journal of Molecular and Cellular Cardiology</i> , 2014, 76, 218-226.	0.9	41
30	Molecular Mechanisms and New Treatment Paradigm for Atrial Fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2016, 9, .	2.1	39
31	CaMKII Serine 280 O-GlcNAcylation Links Diabetic Hyperglycemia to Proarrhythmia. <i>Circulation Research</i> , 2021, 129, 98-113.	2.0	38
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.	1.8	36
33	In vivo fluorescence reflectance imaging of protease activity in a mouse model of post-traumatic osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2014, 22, 1461-1469.	0.6	34
34	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, 1479-1493.	1.3	33
35	Age-related changes in cardiac electrophysiology and calcium handling in response to sympathetic nerve stimulation. <i>Journal of Physiology</i> , 2018, 596, 3977-3991.	1.3	33
36	Reperfused vs. nonreperfused myocardial infarction: when to use which model. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 321, H208-H213.	1.5	29

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37	Inflammation Modulates Murine Venous Thrombosis Resolution In Vivo. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 2616-2624.	1.1	28
38	Virtual electrode hypothesis of defibrillation. <i>Heart Rhythm</i> , 2006, 3, 1100-1102.	0.3	27
39	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.	1.5	25
40	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.	1.3	22
41	Quantitative cross-species translators of cardiac myocyte electrophysiology: Model training, experimental validation, and applications. <i>Science Advances</i> , 2021, 7, eabg0927.	4.7	22
42	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.	1.5	21
43	Adrenergic supersensitivity and impaired neural control of cardiac electrophysiology following regional cardiac sympathetic nerve loss. <i>Scientific Reports</i> , 2020, 10, 18801.	1.6	20
44	Cardiac myocyte alternans in intact heart: Influence of cell-cell coupling and β^2 -adrenergic stimulation. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 84, 1-9.	0.9	18
45	Contractile and Electrophysiologic Characterization of Optimized Self-Organizing Engineered Heart Tissue. <i>Annals of Thoracic Surgery</i> , 2012, 94, 1241-1249.	0.7	17
46	Research Opportunities in Autonomic Neural Mechanisms of Cardiopulmonary Regulation. <i>JACC Basic To Translational Science</i> , 2022, 7, 265-293.	1.9	17
47	Ageing Disrupts Normal Time-of-Day Variation in Cardiac Electrophysiology. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020, 13, e008093.	2.1	16
48	Calcium-Dependent Arrhythmogenic Foci Created by Weakly Coupled Myocytes in the Failing Heart. <i>Circulation Research</i> , 2017, 121, 1379-1391.	2.0	15
49	Role of Reduced Sarco-Endoplasmic Reticulum Ca^{2+} -ATPase Function on Sarcoplasmic Reticulum Ca^{2+} Alternans in the Intact Rabbit Heart. <i>Frontiers in Physiology</i> , 2021, 12, 656516.	1.3	15
50	Exposure to Secondhand Smoke and Arrhythmogenic Cardiac Alternans in a Mouse Model. <i>Environmental Health Perspectives</i> , 2018, 126, 127001.	2.8	11
51	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.	1.5	11
52	From drugs to devices and back again: chemical vagal nerve stimulation for the treatment of heart failure. <i>Cardiovascular Research</i> , 2017, 113, 1270-1272.	1.8	10
53	Optical Mapping of Intra-Sarcoplasmic Reticulum Ca^{2+} and Transmembrane Potential in the Langendorff-perfused Rabbit Heart. <i>Journal of Visualized Experiments</i> , 2015, .	0.2	8
54	β^2 -Adrenergic Inhibition Prevents Action Potential and Calcium Handling Changes during Regional Myocardial Ischemia. <i>Frontiers in Physiology</i> , 2017, 8, 630.	1.3	8

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55	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.	2.1	8
56	Human Biological Pacemakers. <i>Circulation</i> , 2012, 125, 856-858.	1.6	6
57	Systemic bone loss following myocardial infarction in mice. <i>Journal of Orthopaedic Research</i> , 2021, 39, 739-749.	1.2	4
58	We are the change we seek. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 320, H1411-H1414.	1.5	4
59	Deciphering cellular signals in adult mouse sinoatrial node cells. <i>IScience</i> , 2022, 25, 103693.	1.9	4
60	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, 212-217.	0.8	3
61	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.	2.1	3
62	Automated Object Detection in Experimental Data Using Combination of Unsupervised and Supervised Methods. <i>Frontiers in Physiology</i> , 2022, 13, 805161.	1.3	3
63	Mouse models of cardiac conduction system markers: Revealing the past, present, and future of pacemaking and conduction. <i>Trends in Cardiovascular Medicine</i> , 2015, 25, 10-11.	2.3	2
64	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.	1.3	2
65	Regional cardiac sympathetic denervation produces supersensitivity of action potential and Ca ²⁺ handling properties to β -adrenergic stimulation. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 124, 88-89.	0.9	1
66	Putting the pieces together using in vivo optical mapping. <i>Cardiovascular Research</i> , 2019, 115, 1574-1575.	1.8	1
67	Tornado in a dish: Revealing the mechanisms of ventricular arrhythmias in engineered cardiac tissues. <i>Cardiovascular Research</i> , 2006, 69, 307-308.	1.8	0
68	A leap(frog) forward in understanding focal arrhythmia. <i>Journal of Physiology</i> , 2015, 593, 1383-1384.	1.3	0
69	Dual V _m /Ca Imaging of Premature Ventricular Contractions. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015, 8, 529-530.	2.1	0
70	Recent developments in biophysics & molecular biology of heart rhythm. <i>Progress in Biophysics and Molecular Biology</i> , 2016, 120, 1-2.	1.4	0
71	B-PO03-124 DEVELOPMENT OF A NOVEL IMAGING SYSTEM TO VISUALIZE SPATIO-TEMPORAL CYCLIC AMP SIGNALING AND TRANSMEMBRANE POTENTIAL IN THE LANGENDORFF-PERFUSED HEART. <i>Heart Rhythm</i> , 2021, 18, S239.	0.3	0
72	B-PO04-010 THE EFFECT OF CHRONIC NICOTINE EXPOSURE ON CARDIAC ELECTROPHYSIOLOGY IN THE RABBIT HEART. <i>Heart Rhythm</i> , 2021, 18, S283-S284.	0.3	0

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73	B-IN01-04 SPATIO-TEMPORAL CAMP SIGNALING AND ARRHYTHMIA IN THE INTACT HEART. Heart Rhythm, 2021, 18, S465.	0.3	0
74	Age-related changes in sympathetic responsiveness and cardiac electrophysiology. FASEB Journal, 2018, 32, 901.13.	0.2	0
75	PO-616-02 HETEROGENOUS CAMP SIGNALING IN THE INTACT HEART IS SEX DEPENDENT. Heart Rhythm, 2022, 19, S111.	0.3	0
76	PO-676-06 THE ROLE OF REPERFUSION IN MODULATING CYCLIC AMP SIGNALING FOLLOWING MYOCARDIAL INFARCTION. Heart Rhythm, 2022, 19, S344-S345.	0.3	0
77	BS-400-08 HETEROGENOUS CAMP SIGNALING IN THE INTACT HEART IS SEX DEPENDENT. Heart Rhythm, 2022, 19, S510-S511.	0.3	0
78	BS-400-49 THE EFFECT OF CHRONIC NICOTINE EXPOSURE ON CARDIAC ELECTROPHYSIOLOGY IN THE RABBIT HEART. Heart Rhythm, 2022, 19, S508-S509.	0.3	0
79	Abstract 16912: Molecular Mechanisms Underlying the Beneficial Effects of Inhibition of Soluble Epoxide Hydrolase in the Prevention of Atrial Fibrillation. Circulation, 2015, 132, .	1.6	0