Donald Bers

List of Publications by Year
in descending order

463 papers	44,156 citations	1531 109 h-index	3343 190 g-index
503 all docs	503 docs citations	503 times ranked	23350 citing authors

#	Article	IF	Citations
1	Cardiac ryanodine receptor N-terminal region biosensors identify novel inhibitors via FRET-based high-throughput screening. Journal of Biological Chemistry, 2022, 298, 101412.	1.6	2
2	AKAP18Î´ Anchors and Regulates CaMKII Activity at Phospholamban-SERCA2 and RYR. Circulation Research, 2022, 130, 27-44.	2.0	27
3	Beat-to-beat dynamic regulation of intracellular pH in cardiomyocytes. IScience, 2022, 25, 103624.	1.9	4
4	Neuron-Restrictive Silencer Factor Limits Myocyte GÎ± O Expression and Is Protective in Heart Failure Progression. Circulation Research, 2022, 130, 249-251.	2.0	1
5	Functional remodeling of perinuclear mitochondria alters nucleoplasmic Ca2+signaling in heart failure. Biophysical Journal, 2022, 121, 509a-510a.	0.2	0
6	Initiation and maintenance of arrhythmogenic action potential waves near the infarct zone in heart failure. Biophysical Journal, 2022, 121, 89a-90a.	0.2	0
7	Initiation of calcium waves in failing cardiac myocytes is sensitive to posttranslational modifications. Biophysical Journal, 2022, 121, 377a-378a.	0.2	0
8	Empagliflozin Reverses Late Na ⁺ Current Enhancement and Cardiomyocyte Proarrhythmia in a Translational Murine Model of Heart Failure With Preserved Ejection Fraction. Circulation, 2022, 145, 1029-1031.	1.6	27
9	Synergistic FRET assays for drug discovery targeting RyR2 channels. Journal of Molecular and Cellular Cardiology, 2022, 168, 13-23.	0.9	9
10	Subcellular Propagation of Cardiomyocyte Î²-Adrenergic Activation of Calcium Uptake Involves Internal Î²-Receptors and AKAP7. Function, 2022, 3, .	1.1	6
11	Fixing a current problem in the cardiac Na channel. , 2022, 1, 408-409.		0
12	Functional remodeling of perinuclear mitochondria alters nucleoplasmic Ca2+ signaling in heart failure. Cardiovascular Research, 2022, 118, .	1.8	0
13	Intracellular Î² ₁ -Adrenergic Receptors and Organic Cation Transporter 3 Mediate Phospholamban Phosphorylation to Enhance Cardiac Contractility. Circulation Research, 2021, 128, 246-261.	2.0	38
14	JNK2, a Newly-Identified SERCA2 Enhancer, Augments an Arrhythmic [Ca ²⁺] _{SR} Leak-Load Relationship. Circulation Research, 2021, 128, 455-470.	2.0	28
15	Dynamic Regulation of Intracellular PH in the Heart. Biophysical Journal, 2021, 120, 103a.	0.2	0
16	CaMKII and PKA-dependent phosphorylation co-regulate nuclear localization of HDAC4 in adult cardiomyocytes. Basic Research in Cardiology, 2021, 116, 11.	2.5	15
17	Mechanical Load Regulates Excitation-Ca ²⁺ Signaling-Contraction in Cardiomyocyte. Circulation Research, 2021, 128, 772-774.	2.0	9
18	Inositol Trisphosphate Receptors and Nuclear Calcium in Atrial Fibrillation. Circulation Research, 2021, 128, 619-635.	2.0	20

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19	CaMKII Serine 280 O-GlcNAcylation Links Diabetic Hyperglycemia to Proarrhythmia. Circulation Research, 2021, 129, 98-113.	2.0	38
20	Loss of CASK Accelerates Heart Failure Development. Circulation Research, 2021, 128, 1139-1155.	2.0	11
21	PK11195 Protects From Cell Death Only When Applied During Reperfusion: Succinate-Mediated Mechanism of Action. Frontiers in Physiology, 2021, 12, 628508.	1.3	2
22	Role of Reduced Sarco-Endoplasmic Reticulum Ca2+-ATPase Function on Sarcoplasmic Reticulum Ca2+ Alternans in the Intact Rabbit Heart. Frontiers in Physiology, 2021, 12, 656516.	1.3	15
23	Increasing SERCA function promotes initiation of calcium sparks and breakup of calcium waves. Journal of Physiology, 2021, 599, 3267-3278.	1.3	17
24	Mechanoelectric coupling and arrhythmogenesis in cardiomyocytes contracting under mechanical afterload in a 3D viscoelastic hydrogel. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2108484118.	3.3	14
25	Ketone Ester Dâ€Î²â€Hydroxybutyrateâ€(R)â€1,3 Butanediol Prevents Decline in Cardiac Function in Type 2 Diabetic Mice. Journal of the American Heart Association, 2021, 10, e020729.	1.6	19
26	Monoamine Oxidases Desensitize Intracellular Î² ₁ AR Signaling in Heart Failure. Circulation Research, 2021, 129, 965-967.	2.0	13
27	Cardiac Na/Ca Exchange Suppression: A Lateâ€Breaking Knockout Story Showing That There Is No Free Lunch. Journal of the American Heart Association, 2021, 10, e022512.	1.6	0
28	CaMKIIÎ´ post-translational modifications increase affinity for calmodulin inside cardiac ventricular myocytes. Journal of Molecular and Cellular Cardiology, 2021, 161, 53-61.	0.9	4
29	Two-hit mechanism of cardiac arrhythmias in diabetic hyperglycaemia: reduced repolarization reserve, neurohormonal stimulation, and heart failure exacerbate susceptibility. Cardiovascular Research, 2021, 117, 2781-2793.	1.8	26
30	Cardiomyocyte Na+ and Ca2+ mishandling drives vicious cycle involving CaMKII, ROS, and ryanodine receptors. Basic Research in Cardiology, 2021, 116, 58.	2.5	33
31	Quantitative cross-species translators of cardiac myocyte electrophysiology: Model training, experimental validation, and applications. Science Advances, 2021, 7, eabg0927.	4.7	22
32	Diabetic microcirculatory disturbances and pathologic erythropoiesis are provoked by deposition of amyloid-forming amylin in red blood cells and capillaries. Kidney International, 2020, 97, 143-155.	2.6	31
33	Mechanoâ€electric and mechanoâ€chemoâ€transduction in cardiomyocytes. Journal of Physiology, 2020, 598, 1285-1305.	1.3	30
34	Hyperglycemia regulates cardiac K+ channels via O-GlcNAc-CaMKII and NOX2-ROS-PKC pathways. Basic Research in Cardiology, 2020, 115, 71.	2.5	43
35	Metabolic Maturation Media Improve Physiological Function of Human iPSC-Derived Cardiomyocytes. Cell Reports, 2020, 32, 107925.	2.9	198
36	Beta-Adrenergic Signaling in Isolated Cardiomyocytes Propagates Spatially Over Time. Biophysical Journal, 2020, 118, 328a-329a.	0.2	0

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37	CaMKIIÎ´C Drives Early Adaptive Ca 2+ Change and Late Eccentric Cardiac Hypertrophy. Circulation Research, 2020, 127, 1159-1178.	2.0	31
38	MCUb Induction Protects the Heart From Postischemic Remodeling. Circulation Research, 2020, 127, 379-390.	2.0	36
39	Î±â€Actininâ€1 promotes activity of the Lâ€type Ca ²⁺ channel Ca _v 1.2. EMBO Journal, 2020, 39, e102622.	3.5	20
40	Balance Between Rapid Delayed Rectifier K ⁺ Current and Late Na ⁺ Current on Ventricular Repolarization. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e008130.	2.1	16
41	Hyperglycemia Acutely Increases Cytosolic Reactive Oxygen Species via O -linked GlcNAcylation and CaMKII Activation in Mouse Ventricular Myocytes. Circulation Research, 2020, 126, e80-e96.	2.0	82
42	RyR1-targeted drug discovery pipeline integrating FRET-based high-throughput screening and human myofiber dynamic Ca2+ assays. Scientific Reports, 2020, 10, 1791.	1.6	30
43	Mechanics and energetics in cardiac arrhythmias and heart failure. Journal of Physiology, 2020, 598, 1275-1277.	1.3	1
44	Mitochondrial Translocator Protein (TSPO) Prevents Heart Failure by Increasing Cardiac Utilization of Fatty Acids. Biophysical Journal, 2020, 118, 445a-446a.	0.2	0
45	A 20/20 view of ANT function in mitochondrial biology and necrotic cell death. Journal of Molecular and Cellular Cardiology, 2020, 144, A3-A13.	0.9	47
46	Disease-associated mutations in Niemann-Pick type C1 alter ER calcium signaling and neuronal plasticity. Journal of Cell Biology, 2019, 218, 4141-4156.	2.3	32
47	Intrafibrillar and perinuclear mitochondrial heterogeneity in adult cardiac myocytes. Journal of Molecular and Cellular Cardiology, 2019, 136, 72-84.	0.9	32
48	Cardiotoxicity of environmental contaminant tributyltin involves myocyte oxidative stress and abnormal Ca2+ handling. Environmental Pollution, 2019, 247, 371-382.	3.7	12
49	Size Matters: Ryanodine Receptor Cluster Size Heterogeneity Potentiates Calcium Waves. Biophysical Journal, 2019, 116, 530-539.	0.2	31
50	Modelling diastolic dysfunction in induced pluripotent stem cell-derived cardiomyocytes from hypertrophic cardiomyopathy patients. European Heart Journal, 2019, 40, 3685-3695.	1.0	100
51	Different paths, same destination: divergent action potential responses produce conserved cardiac fightâ€orâ€flight response in mouse and rabbit hearts. Journal of Physiology, 2019, 597, 3867-3883.	1.3	22
52	Whole-Cell cAMP and PKA Activity are Epiphenomena, Nanodomain Signaling Matters. Physiology, 2019, 34, 240-249.	1.6	40
53	Mitochondrial Quality Control in Aging and Heart Failure: Influence of Ketone Bodies and Mitofusin-Stabilizing Peptides. Frontiers in Physiology, 2019, 10, 382.	1.3	68
54	Quantitative In Silico Analysis of the Arrhythmogenic CaMKII-Sodium-Calcium-CaMKII Feedback in the Failing Rabbit Ventricular Myocyte. Biophysical Journal, 2019, 116, 94a-95a.	0.2	0

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55	Enhanced Depolarization Drive in Failing Rabbit Ventricular Myocytes. Circulation: Arrhythmia and Electrophysiology, 2019, 12, e007061.	2.1	29
56	FRET-Based Trilateration Resolves Distinct Structural States and Transitions of Calmodulin Bound to RyR. Biophysical Journal, 2019, 116, 43a.	0.2	0
57	Ketone Bodies and their Polymers in Heart Failure and Type 2 Diabetes: Lessons Learned from the Ketone Ester Diet. Biophysical Journal, 2019, 116, 2a-3a.	0.2	1
58	Diabetic Hyperglycemia Regulates Potassium Channels and Arrhythmias in the Heart via Autonomous CaMKII Activation by O-Linked Glycosylation. Biophysical Journal, 2019, 116, 98a.	0.2	5
59	Dual role of inorganic polyphosphate in cardiac myocytes: The importance of polyP chain length for energy metabolism and mPTP activation. Archives of Biochemistry and Biophysics, 2019, 662, 177-189.	1.4	27
60	CaMKII signaling in heart diseases: Emerging role in diabetic cardiomyopathy. Journal of Molecular and Cellular Cardiology, 2019, 127, 246-259.	0.9	92
61	Endurance training restores spatially distinct cardiac mitochondrial function and myocardial contractility in ovariectomized rats. Free Radical Biology and Medicine, 2019, 130, 174-188.	1.3	6
62	Altered Repolarization Reserve in Failing Rabbit Ventricular Myocytes. Circulation: Arrhythmia and Electrophysiology, 2018, 11, e005852.	2.1	30
63	Stress Signaling JNK2 Crosstalk With CaMKII Underlies Enhanced Atrial Arrhythmogenesis. Circulation Research, 2018, 122, 821-835.	2.0	64
64	Complex electrophysiological remodeling in postinfarction ischemic heart failure. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E3036-E3044.	3.3	72
65	Amylin and diabetic cardiomyopathy â€“ amylin-induced sarcolemmal Ca2+ leak is independent of diabetic remodeling of myocardium. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 1923-1930.	1.8	11
66	Excitationâ€“Contraction Coupling. , 2018, , 151-159.		5
67	Î²-adrenergic regulation of late Na+ current during cardiac action potential is mediated by both PKA and CaMKII. Journal of Molecular and Cellular Cardiology, 2018, 123, 168-179.	0.9	55
68	Tributytin Induces Negative Inotropic Effect, Reduces Cardiac SR Calcium Content and Increases Calcium Sparks Frequency in Cardiomyocytes. Biophysical Journal, 2018, 114, 501a.	0.2	0
69	Cardiac-specific Conditional Knockout of the 18-kDa Mitochondrial Translocator Protein Protects from Pressure Overload Induced Heart Failure. Scientific Reports, 2018, 8, 16213.	1.6	36
70	Nuclear translocation of calmodulin in pathological cardiac hypertrophy originates from ryanodine receptor bound calmodulin. Journal of Molecular and Cellular Cardiology, 2018, 125, 87-97.	0.9	15
71	Cardiac CaMKII activation promotes rapid translocation to its extra-dyadic targets. Journal of Molecular and Cellular Cardiology, 2018, 125, 18-28.	0.9	22
72	GRAM domain proteins specialize functionally distinct ER-PM contact sites in human cells. ELife, 2018, 7, .	2.8	96

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73	Size Matters: Ryanodine Receptor Cluster Size Affects Arrhythmogenic Sarcoplasmic Reticulum Calcium Release. Journal of the American Heart Association, 2018, 7, .	1.6	76
74	Role of Epac2 in High Glucose-Induced SR Ca2+ Leak and Arrhythmia. Biophysical Journal, 2018, 114, 618a.	0.2	0
75	The mitochondrial calcium uniporter underlies metabolic fuel preference in skeletal muscle. JCI Insight, 2018, 3, .	2.3	60
76	CALM ing Down Arrhythmogenic Calmodulinopathies via a Precision Medicine Approach. Circulation Research, 2017, 120, 3-4.	2.0	4
77	Antiarrhythmic effects of interleukin 1 inhibition after myocardial infarction. Heart Rhythm, 2017, 14, 727-736.	0.3	61
78	FRET biosensor uncovers cAMP nano-domains at Î²-adrenergic targets that dictate precise tuning of cardiac contractility. Nature Communications, 2017, 8, 15031.	5.8	166
79	Î²-Adrenergic induced SR Ca 2+ leak is mediated by an Epac-NOS pathway. Journal of Molecular and Cellular Cardiology, 2017, 108, 8-16.	0.9	53
80	MarkoLAB: A simulator to study ionic channel's stochastic behavior. Computers in Biology and Medicine, 2017, 87, 258-270.	3.9	4
81	Subcellular localization of Na/K-ATPase isoforms in ventricular myocytes. Journal of Molecular and Cellular Cardiology, 2017, 108, 158-169.	0.9	12
82	K⁺ channels and cardiac electrophysiology. Journal of Physiology, 2017, 595, 2205-2207.	1.3	1
83	Quantitative analysis of the Ca²⁺â€dependent regulation of delayed rectifier K⁺ current I_{Ks} in rabbit ventricular myocytes. Journal of Physiology, 2017, 595, 2253-2268.	1.3	37
84	Dynamical effects of calciumâ€sensitive potassium currents on voltage and calcium alternans. Journal of Physiology, 2017, 595, 2285-2297.	1.3	27
85	Dynamics of sodium current mediated early afterdepolarizations. Heliyon, 2017, 3, e00388.	1.4	23
86	Calcium-Dependent Arrhythmogenic Foci Created by Weakly Coupled Myocytes in the Failing Heart. Circulation Research, 2017, 121, 1379-1391.	2.0	15
87	Potassium channels in the heart: structure, function and regulation. Journal of Physiology, 2017, 595, 2209-2228.	1.3	79
88	Stabilizing ryanodine receptor gating quiets arrhythmogenic events in human heart failure and atrial fibrillation. Heart Rhythm, 2017, 14, 420-421.	0.3	12
89	High-Throughput Screens to Discover Small-Molecule Modulators of Ryanodine Receptor Calcium Release Channels. SLAS Discovery, 2017, 22, 176-186.	1.4	51
90	Potassium currents in the heart: functional roles in repolarization, arrhythmia and therapeutics. Journal of Physiology, 2017, 595, 2229-2252.	1.3	76

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91	Dual optical mapping of the innervated Langendorff-perfused heart reveals novel insights into acute electrophysiological responses to sympathetic stimulation. Journal of Molecular and Cellular Cardiology, 2017, 112, 151-152.	0.9	0
92	Reduced Arrhythmia Inducibility With Calcium/Calmodulin-dependent Protein Kinase II Inhibition in Heart Failure Rabbits. Journal of Cardiovascular Pharmacology, 2016, 67, 260-265.	0.8	15
93	S100A1 Protein Does Not Compete with Calmodulin for Ryanodine Receptor Binding but Structurally Alters the Ryanodine ReceptorÂ·Calmodulin Complex. Journal of Biological Chemistry, 2016, 291, 15896-15907.	1.6	27
94	L30A Mutation of Phospholemman Mimics Effects of Cardiac Glycosides in Isolated Cardiomyocytes. Biochemistry, 2016, 55, 6196-6204.	1.2	5
95	Genetically Encoded Biosensors Reveal PKA Hyperphosphorylation on the Myofilaments in Rabbit Heart Failure. Circulation Research, 2016, 119, 931-943.	2.0	43
96	CaMKII-dependent phosphorylation of RyR2 promotes targetable pathological RyR2 conformational shift. Journal of Molecular and Cellular Cardiology, 2016, 98, 62-72.	0.9	80
97	Patient-Specific and Genome-Edited Induced Pluripotent Stem Cellâ€“Derived Cardiomyocytes Elucidate Single-Cell Phenotype of Brugada Syndrome. Journal of the American College of Cardiology, 2016, 68, 2086-2096.	1.2	185
98	Stretch-Activated Current Can Promote or Suppress Cardiac Alternans Depending on Voltage-Calcium Interaction. Biophysical Journal, 2016, 110, 2671-2677.	0.2	5
99	Mechano-Chemo-Transduction in Rabbit Cardiomyocytes Mediated by no Signaling. Biophysical Journal, 2016, 110, 600a.	0.2	0
100	Sarcoplasmic Reticulum Structure and Functional Properties that Promote Long-Lasting Calcium Sparks. Biophysical Journal, 2016, 110, 382-390.	0.2	18
101	Atrial-selective targeting of arrhythmogenic phase-3 early afterdepolarizations in human myocytes. Journal of Molecular and Cellular Cardiology, 2016, 96, 63-71.	0.9	46
102	Individual Cardiac Mitochondria Undergo Rare Transient Permeability Transition Pore Openings. Circulation Research, 2016, 118, 834-841.	2.0	88
103	Chasing cardiac physiology and pathology down the CaMKII cascade. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 308, H1177-H1191.	1.5	78
104	Role of Sodium and Calcium Dysregulation in Tachyarrhythmias in Sudden Cardiac Death. Circulation Research, 2015, 116, 1956-1970.	2.0	96
105	Targets for therapy in sarcomeric cardiomyopathies. Cardiovascular Research, 2015, 105, 457-470.	1.8	122
106	Constitutive BDNF/TrkB signaling is required for normal cardiac contraction and relaxation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1880-1885.	3.3	96
107	CaMKIIÎ´ mediates Î²-adrenergic effects on RyR2 phosphorylation and SR Ca2+ leak and the pathophysiological response to chronic Î²-adrenergic stimulation. Journal of Molecular and Cellular Cardiology, 2015, 85, 282-291.	0.9	69
108	Î²-adrenergic effects on cardiac myofilaments and contraction in an integrated rabbit ventricular myocyte model. Journal of Molecular and Cellular Cardiology, 2015, 81, 162-175.	0.9	52

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109	The Mitochondrial Calcium Uniporter Selectively Matches Metabolic Output to Acute Contractile Stress in the Heart. Cell Reports, 2015, 12, 15-22.	2.9	284
110	Oxidation of ryanodine receptor (RyR) and calmodulin enhance Ca release and pathologically alter, RyR structure and calmodulin affinity. Journal of Molecular and Cellular Cardiology, 2015, 85, 240-248.	0.9	91
111	Epigenetic Regulation of Phosphodiesterases 2A and 3A Underlies Compromised Î²-Adrenergic Signaling in an iPSC Model of Dilated Cardiomyopathy. Cell Stem Cell, 2015, 17, 89-100.	5.2	170
112	Cardiac myocyte alternans in intact heart: Influence of cellâ€“cell coupling and Î²-adrenergic stimulation. Journal of Molecular and Cellular Cardiology, 2015, 84, 1-9.	0.9	18
113	Na⁺/Ca²⁺ exchange and Na⁺/K⁺â€ATPase in the heart. Journal of Physiology, 2015, 593, 1361-1382.	1.3	160
114	Nuclear Calcium in Cardiac Myocytes. Journal of Cardiovascular Pharmacology, 2015, 65, 211-217.	0.8	33
115	Na⁺ channel function, regulation, structure, trafficking and sequestration. Journal of Physiology, 2015, 593, 1347-1360.	1.3	59
116	Novel Epac fluorescent ligand reveals distinct Epac1 vs. Epac2 distribution and function in cardiomyocytes. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3991-3996.	3.3	57
117	CaMKII Phosphorylation of Na_V1.5: Novel in Vitro Sites Identified by Mass Spectrometry and Reduced S516 Phosphorylation in Human Heart Failure. Journal of Proteome Research, 2015, 14, 2298-2311.	1.8	36
118	Nuclear Calcium/Calmodulin-dependent Protein Kinase II Signaling Enhances Cardiac Progenitor Cell Survival and Cardiac Lineage Commitment. Journal of Biological Chemistry, 2015, 290, 25411-25426.	1.6	17
119	Decreased inward rectifying K⁺ current and increased ryanodine receptor sensitivity synergistically contribute to sustained focal arrhythmia in the intact rabbit heart. Journal of Physiology, 2015, 593, 1479-1493.	1.3	33
120	Sodium and calcium regulation in cardiac myocytes: from molecules to heart failure and arrhythmia. Journal of Physiology, 2015, 593, 1327-1329.	1.3	10
121	Deranged sodium to sudden death. Journal of Physiology, 2015, 593, 1331-1345.	1.3	46
122	CaMKII-Dependent Phosphorylation of RyR2 Causes Domain Unzipping and Reduced Calmodulin Binding, But Dantrolene Reverses These Effects. Biophysical Journal, 2015, 108, 269a-270a.	0.2	0
123	S-Nitrosylation Induces Both Autonomous Activation and Inhibition of Calcium/Calmodulin-dependent Protein Kinase II Î´. Journal of Biological Chemistry, 2015, 290, 25646-25656.	1.6	81
124	Slow [Na] _i Changes and Positive Feedback Between Membrane Potential and [Ca] _i Underlie Intermittent Early Afterdepolarizations and Arrhythmias. Circulation: Arrhythmia and Electrophysiology, 2015, 8, 1472-1480.	2.1	31
125	Adrenergic Fight-or-Flight. Circulation Research, 2015, 117, 747-749.	2.0	2
126	Control of histone <scp>H3</scp> phosphorylation by <scp>CaMKII</scp> Î´ in response to haemodynamic cardiac stress. Journal of Pathology, 2015, 235, 606-618.	2.1	35

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127	Atherosclerosis exacerbates arrhythmia following myocardial infarction: Role of myocardial inflammation. Heart Rhythm, 2015, 12, 169-178.	0.3	67
128	Measuring Intranuclear and Nuclear Envelope [Ca2+] vs. Cytosolic [Ca2+]. Methods in Molecular Biology, 2015, 1234, 135-147.	0.4	5
129	Excitation-Contraction Coupling. , 2014, , 161-169.		1
130	Models of the Ventricular Action Potential in Health and Disease. , 2014, , 319-330.		3
131	Mechanochemotransduction During Cardiomyocyte Contraction Is Mediated by Localized Nitric Oxide Signaling. Science Signaling, 2014, 7, ra27.	1.6	128
132	AKAP150 Contributes to Enhanced Vascular Tone by Facilitating Large-Conductance Ca ²⁺ -Activated K ⁺ Channel Remodeling in Hyperglycemia and Diabetes Mellitus. Circulation Research, 2014, 114, 607-615.	2.0	86
133	Overexpression of the Na ⁺ /K ⁺ ATPase Î±2 But Not Î±1 Isoform Attenuates Pathological Cardiac Hypertrophy and Remodeling. Circulation Research, 2014, 114, 249-256.	2.0	61
134	CaMKII comes of age in cardiac health and disease. Frontiers in Pharmacology, 2014, 5, 154.	1.6	7
135	Ca2+ current facilitation is CaMKII-dependent and has arrhythmogenic consequences. Frontiers in Pharmacology, 2014, 5, 144.	1.6	49
136	Divergent Regulation of Ryanodine Receptor 2 Calcium Release Channels by Arrhythmogenic Human Calmodulin Missense Mutants. Circulation Research, 2014, 114, 1114-1124.	2.0	126
137	Nonequilibrium Reactivation of Na + Current Drives Early Afterdepolarizations in Mouse Ventricle. Circulation: Arrhythmia and Electrophysiology, 2014, 7, 1205-1213.	2.1	42
138	Intracellular signalling mechanism responsible for modulation of sarcolemmal ATPâ€sensitive potassium channels by nitric oxide in ventricular cardiomyocytes. Journal of Physiology, 2014, 592, 971-990.	1.3	48
139	Cardiac Myocyte Z-Line Calmodulin Is Mainly RyR2-Bound, and Reduction Is Arrhythmogenic and Occurs in Heart Failure. Circulation Research, 2014, 114, 295-306.	2.0	69
140	Cardiac Sarcoplasmic Reticulum Calcium Leak: Basis and Roles in Cardiac Dysfunction. Annual Review of Physiology, 2014, 76, 107-127.	5.6	266
141	FRET-Based Trilateration of Probes Bound within Functional Ryanodine Receptors. Biophysical Journal, 2014, 107, 2037-2048.	0.2	16
142	The late sodium current in heart failure: pathophysiology and clinical relevance. ESC Heart Failure, 2014, 1, 26-40.	1.4	35
143	How does Î²-adrenergic signalling affect the transitions from ventricular tachycardia to ventricular fibrillation?. Europace, 2014, 16, 452-457.	0.7	21
144	Junctional Cleft [Ca ²⁺] _i Measurements Using Novel Cleft-Targeted Ca ²⁺ Sensors. Circulation Research, 2014, 115, 339-347.	2.0	44

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145	Optical Mapping of Sarcoplasmic Reticulum Ca ²⁺ in the Intact Heart. Circulation Research, 2014, 114, 1410-1421.	2.0	119
146	Depolarization of Cardiac Membrane Potential Synchronizes Calcium Sparks and Waves in Tissue. Biophysical Journal, 2014, 107, 1313-1317.	0.2	18
147	Influence of a constitutive increase in myofilament Ca2+-sensitivity on Ca2+-fluxes and contraction of mouse heart ventricular myocytes. Archives of Biochemistry and Biophysics, 2014, 552-553, 50-59.	1.4	8
148	Arrhythmogenic Transient Dynamics in Cardiac Myocytes. Biophysical Journal, 2014, 106, 1391-1397.	0.2	32
149	Early Remodeling of Perinuclear Ca ²⁺ Stores and Nucleoplasmic Ca ²⁺ Signaling During the Development of Hypertrophy and Heart Failure. Circulation, 2014, 130, 244-255.	1.6	74
150	Depolarization of Cardiac Membrane Potential Promotes Calcium Waves. Biophysical Journal, 2014, 106, 531a.	0.2	0
151	Advancing cardiac safety with a â€œthorough preclinical QT Studyâ€•using low-impedance microelectrode arrays and human stem cell-derived cardiomyocytes. Journal of Pharmacological and Toxicological Methods, 2014, 70, 354.	0.3	0
152	Nitric Oxide-Dependent Activation of CaMKII Increases Diastolic Sarcoplasmic Reticulum Calcium Release in Cardiac Myocytes in Response to Adrenergic Stimulation. PLoS ONE, 2014, 9, e87495.	1.1	63
153	Correlative superâ€•resolution light microscopy and electron microscopy determines spatial Ryanodine receptor type 2 distribution in mouse ventricular myocytes (LB707). FASEB Journal, 2014, 28, LB707.	0.2	0
154	Sex differences in repolarization and slow delayed rectifier potassium current and their regulation by sympathetic stimulation in rabbits. Pflugers Archiv European Journal of Physiology, 2013, 465, 805-818.	1.3	25
155	Targeted ablation of the histidine-rich Ca2+-binding protein (HRC) gene is associated with abnormal SR Ca2+-cycling and severe pathology under pressure-overload stress. Basic Research in Cardiology, 2013, 108, 344.	2.5	27
156	Diabetic hyperglycaemia activates CaMKII and arrhythmias by O-linked glycosylation. Nature, 2013, 502, 372-376.	13.7	495
157	Abnormal Calcium Handling Properties Underlie Familial Hypertrophic Cardiomyopathy Pathology in Patient-Specific Induced Pluripotent Stem Cells. Cell Stem Cell, 2013, 12, 101-113.	5.2	584
158	Measuring Local Gradients of Intramitochondrial [Ca ²⁺] in Cardiac Myocytes During Sarcoplasmic Reticulum Ca ²⁺ Release. Circulation Research, 2013, 112, 424-431.	2.0	107
159	Calcium movements inside the sarcoplasmic reticulum of cardiac myocytes. Journal of Molecular and Cellular Cardiology, 2013, 58, 59-66.	0.9	57
160	In Cardiomyocytes, Binding of Unzipping Peptide Activates Ryanodine Receptor 2 and Reciprocally Inhibits Calmodulin Binding. Circulation Research, 2013, 112, 487-497.	2.0	35
161	The PLM Homotetramer has a Structural Basis that Parallels that of PLB: The Leucine Zipper. Biophysical Journal, 2013, 104, 407a.	0.2	0
162	Nitric oxide regulates cardiac intracellular Na+ and Ca2+ by modulating Na/K ATPase via PKCÎµ and phospholemman-dependent mechanism. Journal of Molecular and Cellular Cardiology, 2013, 61, 164-171.	0.9	41

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163	While systolic cardiomyocyte function is preserved, diastolic myocyte function and recovery from acidosis are impaired in CaMKIIÎ´-KO mice. Journal of Molecular and Cellular Cardiology, 2013, 59, 107-116.	0.9	21
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