

Xander H T Wehrens

List of Publications by Citations

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226
papers

13,845
citations

64
h-index

111
g-index

275
ext. papers

16,343
ext. citations

9.2
avg, IF

6.33
L-index

#	Paper	IF	Citations
226	FKBP12.6 deficiency and defective calcium release channel (ryanodine receptor) function linked to exercise-induced sudden cardiac death. <i>Cell</i> , 2003 , 113, 829-40	56.2	589
225	Ca ²⁺ /calmodulin-dependent protein kinase II phosphorylation regulates the cardiac ryanodine receptor. <i>Circulation Research</i> , 2004 , 94, e61-70	15.7	462
224	Impact of noncardiac comorbidities on morbidity and mortality in a predominantly male population with heart failure and preserved versus reduced ejection fraction. <i>Journal of the American College of Cardiology</i> , 2012 , 59, 998-1005	15.1	455
223	Phosphodiesterase 4D deficiency in the ryanodine-receptor complex promotes heart failure and arrhythmias. <i>Cell</i> , 2005 , 123, 25-35	56.2	401
222	Enhanced sarcoplasmic reticulum Ca ²⁺ leak and increased Na ⁺ -Ca ²⁺ exchanger function underlie delayed afterdepolarizations in patients with chronic atrial fibrillation. <i>Circulation</i> , 2012 , 125, 2059-70	16.7	395
221	Protection from cardiac arrhythmia through ryanodine receptor-stabilizing protein calstabin2. <i>Science</i> , 2004 , 304, 292-6	33.3	388
220	Ryanodine receptor/calcium release channel PKA phosphorylation: a critical mediator of heart failure progression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 511-8	11.5	285
219	Intracellular calcium release and cardiac disease. <i>Annual Review of Physiology</i> , 2005 , 67, 69-98	23.1	285
218	Calmodulin kinase II-mediated sarcoplasmic reticulum Ca ²⁺ leak promotes atrial fibrillation in mice. <i>Journal of Clinical Investigation</i> , 2009 , 119, 1940-51	15.9	279
217	Cellular and molecular mechanisms of atrial arrhythmogenesis in patients with paroxysmal atrial fibrillation. <i>Circulation</i> , 2014 , 129, 145-156	16.7	273
216	Defective cardiac ryanodine receptor regulation during atrial fibrillation. <i>Circulation</i> , 2005 , 111, 2025-32	16.7	267
215	Sudden death in familial polymorphic ventricular tachycardia associated with calcium release channel (ryanodine receptor) leak. <i>Circulation</i> , 2004 , 109, 3208-14	16.7	259
214	Circadian rhythms govern cardiac repolarization and arrhythmogenesis. <i>Nature</i> , 2012 , 483, 96-9	50.4	241
213	Beta-blockers restore calcium release channel function and improve cardiac muscle performance in human heart failure. <i>Circulation</i> , 2003 , 107, 2459-66	16.7	240
212	Pitx2 prevents susceptibility to atrial arrhythmias by inhibiting left-sided pacemaker specification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 9753-8	11.5	212
211	Calcium Signaling and Cardiac Arrhythmias. <i>Circulation Research</i> , 2017 , 120, 1969-1993	15.7	207
210	Ryanodine receptor phosphorylation by calcium/calmodulin-dependent protein kinase II promotes life-threatening ventricular arrhythmias in mice with heart failure. <i>Circulation</i> , 2010 , 122, 2669-79	16.7	207

209	Oxidized Ca(2+)/calmodulin-dependent protein kinase II triggers atrial fibrillation. <i>Circulation</i> , 2013 , 128, 1748-57	16.7	186
208	Stabilization of cardiac ryanodine receptor prevents intracellular calcium leak and arrhythmias. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 7906-10	11.5	180
207	Disrupted junctional membrane complexes and hyperactive ryanodine receptors after acute junctophilin knockdown in mice. <i>Circulation</i> , 2011 , 123, 979-88	16.7	174
206	Enhanced Cardiomyocyte NLRP3 Inflammasome Signaling Promotes Atrial Fibrillation. <i>Circulation</i> , 2018 , 138, 2227-2242	16.7	174
205	Role of RyR2 phosphorylation at S2814 during heart failure progression. <i>Circulation Research</i> , 2012 , 110, 1474-83	15.7	158
204	Mice with the R176Q cardiac ryanodine receptor mutation exhibit catecholamine-induced ventricular tachycardia and cardiomyopathy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 12179-84	11.5	149
203	Enhancing calstabin binding to ryanodine receptors improves cardiac and skeletal muscle function in heart failure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 9607-12	11.5	137
202	Mutations in JPH2-encoded junctophilin-2 associated with hypertrophic cardiomyopathy in humans. <i>Journal of Molecular and Cellular Cardiology</i> , 2007 , 42, 1026-35	5.8	135
201	Targeted deletion of microRNA-22 promotes stress-induced cardiac dilation and contractile dysfunction. <i>Circulation</i> , 2012 , 125, 2751-61	16.7	134
200	Transverse aortic constriction in mice. <i>Journal of Visualized Experiments</i> , 2010 ,	1.6	127
199	Non-equilibrium gating in cardiac Na ⁺ channels: an original mechanism of arrhythmia. <i>Circulation</i> , 2003 , 107, 2233-7	16.7	125
198	Mutation E169K in junctophilin-2 causes atrial fibrillation due to impaired RyR2 stabilization. <i>Journal of the American College of Cardiology</i> , 2013 , 62, 2010-9	15.1	120
197	Heart-specific overexpression of CUGBP1 reproduces functional and molecular abnormalities of myotonic dystrophy type 1. <i>Human Molecular Genetics</i> , 2010 , 19, 1066-75	5.6	118
196	Epac2 mediates cardiac β -adrenergic-dependent sarcoplasmic reticulum Ca ²⁺ leak and arrhythmia. <i>Circulation</i> , 2013 , 127, 913-22	16.7	117
195	Ryanodine receptor-mediated calcium leak drives progressive development of an atrial fibrillation substrate in a transgenic mouse model. <i>Circulation</i> , 2014 , 129, 1276-1285	16.7	114
194	Calmodulin kinase II is required for fight or flight sinoatrial node physiology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 5972-7	11.5	112
193	Inhibition of CaMKII phosphorylation of RyR2 prevents induction of atrial fibrillation in FKBP12.6 knockout mice. <i>Circulation Research</i> , 2012 , 110, 465-70	15.7	109
192	NFATc2 is a necessary mediator of calcineurin-dependent cardiac hypertrophy and heart failure. <i>Journal of Biological Chemistry</i> , 2008 , 283, 22295-303	5.4	109

191	Altered function and regulation of cardiac ryanodine receptors in cardiac disease. <i>Trends in Biochemical Sciences</i> , 2003 , 28, 671-8	10.3	109
190	The value of basic research insights into atrial fibrillation mechanisms as a guide to therapeutic innovation: a critical analysis. <i>Cardiovascular Research</i> , 2016 , 109, 467-79	9.9	108
189	The mitochondrial uniporter controls fight or flight heart rate increases. <i>Nature Communications</i> , 2015 , 6, 6081	17.4	106
188	Novel arrhythmogenic mechanism revealed by a long-QT syndrome mutation in the cardiac Na(+) channel. <i>Circulation Research</i> , 2001 , 88, 740-5	15.7	105
187	Role of RyR2 phosphorylation in heart failure and arrhythmias: Controversies around ryanodine receptor phosphorylation in cardiac disease. <i>Circulation Research</i> , 2014 , 114, 1311-9; discussion 1319	15.7	101
186	Intracellular calcium leak due to FKBP12.6 deficiency in mice facilitates the inducibility of atrial fibrillation. <i>Heart Rhythm</i> , 2008 , 5, 1047-54	6.7	100
185	Alternative splicing regulates vesicular trafficking genes in cardiomyocytes during postnatal heart development. <i>Nature Communications</i> , 2014 , 5, 3603	17.4	98
184	Novel therapeutic approaches for heart failure by normalizing calcium cycling. <i>Nature Reviews Drug Discovery</i> , 2004 , 3, 565-73	64.1	97
183	Increased atrial arrhythmia susceptibility induced by intense endurance exercise in mice requires TNF α . <i>Nature Communications</i> , 2015 , 6, 6018	17.4	92
182	Microtubule-mediated defects in junctophilin-2 trafficking contribute to myocyte transverse-tubule remodeling and Ca ²⁺ handling dysfunction in heart failure. <i>Circulation</i> , 2014 , 129, 1742-50	16.7	92
181	YAP Partially Reprograms Chromatin Accessibility to Directly Induce Adult Cardiogenesis In Vivo. <i>Developmental Cell</i> , 2019 , 48, 765-779.e7	10.2	89
180	PKC inhibition ameliorates the cardiac phenotype in a mouse model of myotonic dystrophy type 1. <i>Journal of Clinical Investigation</i> , 2009 , 119, 3797-806	15.9	85
179	Pitx2-microRNA pathway that delimits sinoatrial node development and inhibits predisposition to atrial fibrillation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 9181-6	11.5	84
178	Atrial identity is determined by a COUP-TFII regulatory network. <i>Developmental Cell</i> , 2013 , 25, 417-26	10.2	80
177	The ryanodine receptor channel as a molecular motif in atrial fibrillation: pathophysiological and therapeutic implications. <i>Cardiovascular Research</i> , 2011 , 89, 734-43	9.9	80
176	Junctophilin-2 expression silencing causes cardiocyte hypertrophy and abnormal intracellular calcium-handling. <i>Circulation: Heart Failure</i> , 2011 , 4, 214-23	7.6	80
175	Loss of microRNA-106b-25 cluster promotes atrial fibrillation by enhancing ryanodine receptor type-2 expression and calcium release. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2014 , 7, 1214-22	6.4	78
174	Defects in ankyrin-based membrane protein targeting pathways underlie atrial fibrillation. <i>Circulation</i> , 2011 , 124, 1212-22	16.7	78

173	Molecular pharmacology of the sodium channel mutation D1790G linked to the long-QT syndrome. <i>Circulation</i> , 2000 , 102, 921-5	16.7	78
172	Analysis of calstabin2 (FKBP12.6)-ryanodine receptor interactions: rescue of heart failure by calstabin2 in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 3456-61	11.5	75
171	Exercise training during diabetes attenuates cardiac ryanodine receptor dysregulation. <i>Journal of Applied Physiology</i> , 2009 , 106, 1280-92	3.7	74
170	Junctophilin-2 is necessary for T-tubule maturation during mouse heart development. <i>Cardiovascular Research</i> , 2013 , 100, 44-53	9.9	73
169	K ⁺ channel structure-activity relationships and mechanisms of drug-induced QT prolongation. <i>Annual Review of Pharmacology and Toxicology</i> , 2003 , 43, 441-61	17.9	72
168	Critical roles of junctophilin-2 in T-tubule and excitation-contraction coupling maturation during postnatal development. <i>Cardiovascular Research</i> , 2013 , 100, 54-62	9.9	67
167	Calstabin deficiency, ryanodine receptors, and sudden cardiac death. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 322, 1267-79	3.4	67
166	Calcium-calmodulin dependent protein kinase II (CaMKII): a main signal responsible for early reperfusion arrhythmias. <i>Journal of Molecular and Cellular Cardiology</i> , 2011 , 51, 936-44	5.8	65
165	Cardiac ryanodine receptor function and regulation in heart disease. <i>Annals of the New York Academy of Sciences</i> , 2004 , 1015, 144-59	6.5	65
164	Hrd1 and ER-Associated Protein Degradation, ERAD, are Critical Elements of the Adaptive ER Stress Response in Cardiac Myocytes. <i>Circulation Research</i> , 2015 , 117, 536-46	15.7	64
163	Molecular evolution of the junctophilin gene family. <i>Physiological Genomics</i> , 2009 , 37, 175-86	3.6	60
162	SPEG (Striated Muscle Preferentially Expressed Protein Kinase) Is Essential for Cardiac Function by Regulating Junctional Membrane Complex Activity. <i>Circulation Research</i> , 2017 , 120, 110-119	15.7	59
161	microRNA-22 promotes heart failure through coordinate suppression of PPAR/ERR-nuclear hormone receptor transcription. <i>PLoS ONE</i> , 2013 , 8, e75882	3.7	59
160	Cardiac rupture complicating myocardial infarction. <i>International Journal of Cardiology</i> , 2004 , 95, 285-92	3.2	59
159	Pathogenesis of lethal cardiac arrhythmias in Mecp2 mutant mice: implication for therapy in Rett syndrome. <i>Science Translational Medicine</i> , 2011 , 3, 113ra125	17.5	57
158	Mouse electrocardiography: an interval of thirty years. <i>Cardiovascular Research</i> , 2000 , 45, 231-7	9.9	56
157	CaMKII-dependent phosphorylation of RyR2 promotes targetable pathological RyR2 conformational shift. <i>Journal of Molecular and Cellular Cardiology</i> , 2016 , 98, 62-72	5.8	55
156	CaMKII β mediates β adrenergic effects on RyR2 phosphorylation and SR Ca ²⁺ leak and the pathophysiological response to chronic β adrenergic stimulation. <i>Journal of Molecular and Cellular Cardiology</i> , 2015 , 85, 282-91	5.8	53

155	Accelerated development of pressure overload-induced cardiac hypertrophy and dysfunction in an RyR2-R176Q knockin mouse model. <i>Hypertension</i> , 2010 , 55, 932-8	8.5	53
154	20p12.3 microdeletion predisposes to Wolff-Parkinson-White syndrome with variable neurocognitive deficits. <i>Journal of Medical Genetics</i> , 2009 , 46, 168-75	5.8	53
153	Increased Reliance on Muscle-based Thermogenesis upon Acute Minimization of Brown Adipose Tissue Function. <i>Journal of Biological Chemistry</i> , 2016 , 291, 17247-57	5.4	51
152	CaMKII-dependent phosphorylation of cardiac ryanodine receptors regulates cell death in cardiac ischemia/reperfusion injury. <i>Journal of Molecular and Cellular Cardiology</i> , 2014 , 74, 274-83	5.8	51
151	Novel insights in the congenital long QT syndrome. <i>Annals of Internal Medicine</i> , 2002 , 137, 981-92	8	50
150	Junctophilin-2 gene therapy rescues heart failure by normalizing RyR2-mediated Ca release. <i>International Journal of Cardiology</i> , 2016 , 225, 371-380	3.2	49
149	Impaired local regulation of ryanodine receptor type 2 by protein phosphatase 1 promotes atrial fibrillation. <i>Cardiovascular Research</i> , 2014 , 103, 178-87	9.9	49
148	Emerging roles of junctophilin-2 in the heart and implications for cardiac diseases. <i>Cardiovascular Research</i> , 2014 , 103, 198-205	9.9	46
147	Nanoscale organization of junctophilin-2 and ryanodine receptors within peripheral couplings of rat ventricular cardiomyocytes. <i>Biophysical Journal</i> , 2012 , 102, L19-21	2.9	46
146	Smoothelin expression characteristics: development of a smooth muscle cell in vitro system and identification of a vascular variant. <i>Cell Structure and Function</i> , 1997 , 22, 65-72	2.2	46
145	The junctophilin family of proteins: from bench to bedside. <i>Trends in Molecular Medicine</i> , 2014 , 20, 353-62	11.5	44
144	Angiogenesis-independent cardioprotection in FGF-1 transgenic mice. <i>Cardiovascular Research</i> , 2002 , 55, 768-77	9.9	44
143	Association of systolic blood pressure with mortality in patients with heart failure with reduced ejection fraction: a complex relationship. <i>American Heart Journal</i> , 2011 , 161, 567-73	4.9	43
142	A comparison of electrocardiographic changes during reperfusion of acute myocardial infarction by thrombolysis or percutaneous transluminal coronary angioplasty. <i>American Heart Journal</i> , 2000 , 139, 430-6	4.9	43
141	Atrial Myocyte NLRP3/CaMKII Nexus Forms a Substrate for Postoperative Atrial Fibrillation. <i>Circulation Research</i> , 2020 , 127, 1036-1055	15.7	43
140	Ryanodine receptor-targeted anti-arrhythmic therapy. <i>Annals of the New York Academy of Sciences</i> , 2005 , 1047, 366-75	6.5	42
139	Junctophilin-2 in the nanoscale organisation and functional signalling of ryanodine receptor clusters in cardiomyocytes. <i>Journal of Cell Science</i> , 2016 , 129, 4388-4398	5.3	40
138	Profibrotic, Electrical, and Calcium-Handling Remodeling of the Atria in Heart Failure Patients With and Without Atrial Fibrillation. <i>Frontiers in Physiology</i> , 2018 , 9, 1383	4.6	39

137	Overexpression of cAMP-response element modulator causes abnormal growth and development of the atrial myocardium resulting in a substrate for sustained atrial fibrillation in mice. <i>International Journal of Cardiology</i> , 2013 , 166, 366-74	3.2	38
136	Transthoracic echocardiography in mice. <i>Journal of Visualized Experiments</i> , 2010 ,	1.6	38
135	Sarcoplasmic reticulum calcium leak and cardiac arrhythmias. <i>Biochemical Society Transactions</i> , 2007 , 35, 952-6	5.1	38
134	Protein phosphatase 2A regulatory subunit B56 limits phosphatase activity in the heart. <i>Science Signaling</i> , 2015 , 8, ra72	8.8	37
133	Genetic inhibition of PKA phosphorylation of RyR2 prevents dystrophic cardiomyopathy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 13165-70	11.5	37
132	Phosphorylation of RyR2 and shortening of RyR2 cluster spacing in spontaneously hypertensive rat with heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 293, H2409-17	5.2	37
131	Calcium-calmodulin-dependent protein kinase mediates the intracellular signalling pathways of cardiac apoptosis in mice with impaired glucose tolerance. <i>Journal of Physiology</i> , 2017 , 595, 4089-4108	3.9	36
130	Ryanodine receptor phosphorylation by oxidized CaMKII contributes to the cardiotoxic effects of cardiac glycosides. <i>Cardiovascular Research</i> , 2014 , 101, 165-74	9.9	36
129	Inhibition of CaMKII phosphorylation of RyR2 prevents inducible ventricular arrhythmias in mice with Duchenne muscular dystrophy. <i>Heart Rhythm</i> , 2013 , 10, 592-9	6.7	36
128	Effects of CaMKII-mediated phosphorylation of ryanodine receptor type 2 on islet calcium handling, insulin secretion, and glucose tolerance. <i>PLoS ONE</i> , 2013 , 8, e58655	3.7	36
127	Dysregulation of RBFOX2 Is an Early Event in Cardiac Pathogenesis of Diabetes. <i>Cell Reports</i> , 2016 , 15, 2200-2213	10.6	35
126	Calcium dysregulation in atrial fibrillation: the role of CaMKII. <i>Frontiers in Pharmacology</i> , 2014 , 5, 30	5.6	35
125	CaMKII inhibition rescues proarrhythmic phenotypes in the model of human ankyrin-B syndrome. <i>Heart Rhythm</i> , 2012 , 9, 2034-41	6.7	34
124	Leaky RyR2 channels unleash a brainstem spreading depolarization mechanism of sudden cardiac death. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E4895-903	11.5	33
123	Calcium-mediated cellular triggered activity in atrial fibrillation. <i>Journal of Physiology</i> , 2017 , 595, 4001-4008	9.9	32
122	Identification of microRNA-mRNA dysregulations in paroxysmal atrial fibrillation. <i>International Journal of Cardiology</i> , 2015 , 184, 190-197	3.2	32
121	Animal models of arrhythmogenic cardiomyopathy. <i>DMM Disease Models and Mechanisms</i> , 2009 , 2, 563-70	4.1	32
120	Alterations in the interactome of serine/threonine protein phosphatase type-1 in atrial fibrillation patients. <i>Journal of the American College of Cardiology</i> , 2015 , 65, 163-73	15.1	31

119	A novel mutation L619F in the cardiac Na ⁺ channel SCN5A associated with long-QT syndrome (LQT3): a role for the I-II linker in inactivation gating. <i>Human Mutation</i> , 2003 , 21, 552	4.7	30
118	Calmodulin kinase II, sarcoplasmic reticulum Ca ²⁺ leak, and atrial fibrillation. <i>Trends in Cardiovascular Medicine</i> , 2010 , 20, 30-4	6.9	29
117	Fetal cardiovascular response to large placental chorioangiomas. <i>Journal of Perinatal Medicine</i> , 2004 , 32, 107-12	2.7	29
116	Atrial-Specific Gene Delivery Using an Adeno-Associated Viral Vector. <i>Circulation Research</i> , 2019 , 124, 256-262	15.7	29
115	In Vivo Ryr2 Editing Corrects Catecholaminergic Polymorphic Ventricular Tachycardia. <i>Circulation Research</i> , 2018 , 123, 953-963	15.7	29
114	Loss of Protein Phosphatase 1 Regulatory Subunit PPP1R3A Promotes Atrial Fibrillation. <i>Circulation</i> , 2019 , 140, 681-693	16.7	28
113	Alterations in ryanodine receptors and related proteins in heart failure. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013 , 1832, 2425-31	6.9	28
112	In silico prediction of drug therapy in catecholaminergic polymorphic ventricular tachycardia. <i>Journal of Physiology</i> , 2016 , 594, 567-93	3.9	28
111	Ranolazine prevents pressure overload-induced cardiac hypertrophy and heart failure by restoring aberrant Na and Ca handling. <i>Journal of Cellular Physiology</i> , 2019 , 234, 11587-11601	7	27
110	TWIK-2 channel deficiency leads to pulmonary hypertension through a rho-kinase-mediated process. <i>Hypertension</i> , 2014 , 64, 1260-5	8.5	26
109	Targeting ryanodine receptors for anti-arrhythmic therapy. <i>Acta Pharmacologica Sinica</i> , 2011 , 32, 749-578		26
108	Programmed electrical stimulation in mice. <i>Journal of Visualized Experiments</i> , 2010 ,	1.6	26
107	Serine/Threonine Phosphatases in Atrial Fibrillation. <i>Journal of Molecular and Cellular Cardiology</i> , 2017 , 103, 110-120	5.8	25
106	Expression and function of Kv1.1 potassium channels in human atria from patients with atrial fibrillation. <i>Basic Research in Cardiology</i> , 2015 , 110, 505	11.8	25
105	Regulating the regulator: Insights into the cardiac protein phosphatase 1 interactome. <i>Journal of Molecular and Cellular Cardiology</i> , 2016 , 101, 165-172	5.8	25
104	Reduced junctional Na ⁺ /Ca ²⁺ -exchanger activity contributes to sarcoplasmic reticulum Ca ²⁺ leak in junctophilin-2-deficient mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 307, H1317-26	5.2	25
103	Localization of smoothelin in avian smooth muscle and identification of a vascular-specific isoform. <i>FEBS Letters</i> , 1997 , 405, 315-20	3.8	25
102	The molecular basis of catecholaminergic polymorphic ventricular tachycardia: what are the different hypotheses regarding mechanisms?. <i>Heart Rhythm</i> , 2007 , 4, 794-7	6.7	25

101	Defective ryanodine receptor interdomain interactions may contribute to intracellular Ca ²⁺ leak: a novel therapeutic target in heart failure. <i>Circulation</i> , 2005 , 111, 3342-6	16.7	25
100	Human stanniocalcin-1 suppresses angiotensin II-induced superoxide generation in cardiomyocytes through UCP3-mediated anti-oxidant pathway. <i>PLoS ONE</i> , 2012 , 7, e36994	3.7	24
99	Emerging role of junctophilin-2 as a regulator of calcium handling in the heart. <i>Acta Pharmacologica Sinica</i> , 2010 , 31, 1019-21	8	24
98	Prevention of connexin-43 remodeling protects against Duchenne muscular dystrophy cardiomyopathy. <i>Journal of Clinical Investigation</i> , 2020 , 130, 1713-1727	15.9	24
97	PHD2/3-dependent hydroxylation tunes cardiac response to β adrenergic stress via phospholamban. <i>Journal of Clinical Investigation</i> , 2015 , 125, 2759-71	15.9	24
96	Protein Phosphatase 2A Regulates Cardiac Na Channels. <i>Circulation Research</i> , 2019 , 124, 737-746	15.7	24
95	Oxidized CaMKII (Ca/Calmodulin-Dependent Protein Kinase II) Is Essential for Ventricular Arrhythmia in a Mouse Model of Duchenne Muscular Dystrophy. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018 , 11, e005682	6.4	23
94	Crosstalk between RyR2 oxidation and phosphorylation contributes to cardiac dysfunction in mice with Duchenne muscular dystrophy. <i>Journal of Molecular and Cellular Cardiology</i> , 2015 , 89, 177-84	5.8	22
93	Ryanodine receptors as pharmacological targets for heart disease. <i>Acta Pharmacologica Sinica</i> , 2007 , 28, 937-44	8	22
92	Molecular determinants of altered contractility in heart failure. <i>Annals of Medicine</i> , 2004 , 36 Suppl 1, 70-80	1.5	22
91	Targeting pathological leak of ryanodine receptors: preclinical progress and the potential impact on treatments for cardiac arrhythmias and heart failure. <i>Expert Opinion on Therapeutic Targets</i> , 2020 , 24, 25-36	6.4	22
90	CaMKII regulation of the cardiac ryanodine receptor and sarcoplasmic reticulum calcium release. <i>Heart Rhythm</i> , 2011 , 8, 323-5	6.7	21
89	Tead1 is required for maintaining adult cardiomyocyte function, and its loss results in lethal dilated cardiomyopathy. <i>JCI Insight</i> , 2017 , 2,	9.9	21
88	Genetic deletion of Rnd3/RhoE results in mouse heart calcium leakage through upregulation of protein kinase A signaling. <i>Circulation Research</i> , 2015 , 116, e1-e10	15.7	20
87	Nuclear localization of a novel calpain-2 mediated junctophilin-2 C-terminal cleavage peptide promotes cardiomyocyte remodeling. <i>Basic Research in Cardiology</i> , 2020 , 115, 49	11.8	20
86	Treatment of catecholaminergic polymorphic ventricular tachycardia in mice using novel RyR2-modifying drugs. <i>International Journal of Cardiology</i> , 2017 , 227, 668-673	3.2	20
85	Mechanisms of human arrhythmia syndromes: abnormal cardiac macromolecular interactions. <i>Physiology</i> , 2007 , 22, 342-50	9.8	20
84	Loss of SPEG Inhibitory Phosphorylation of Ryanodine Receptor Type-2 Promotes Atrial Fibrillation. <i>Circulation</i> , 2020 , 142, 1159-1172	16.7	20

83	Calmodulin kinase II regulates atrial myocyte late sodium current, calcium handling, and atrial arrhythmia. <i>Heart Rhythm</i> , 2020 , 17, 503-511	6.7	20
82	Paracrine signalling by cardiac calcitonin controls atrial fibrogenesis and arrhythmia. <i>Nature</i> , 2020 , 587, 460-465	50.4	19
81	Worsening renal function is not associated with response to treatment in acute heart failure. <i>International Journal of Cardiology</i> , 2013 , 167, 1912-7	3.2	19
80	Mouse Models of Cardiac Arrhythmias. <i>Circulation Research</i> , 2018 , 123, 332-334	15.7	18
79	Sudden infant death syndrome in mice with an inherited mutation in RyR2. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2009 , 2, 677-85	6.4	18
78	Phospholamban ablation rescues the enhanced propensity to arrhythmias of mice with CaMKII-constitutive phosphorylation of RyR2 at site S2814. <i>Journal of Physiology</i> , 2016 , 594, 3005-30	3.9	18
77	Exercise restores dysregulated gene expression in a mouse model of arrhythmogenic cardiomyopathy. <i>Cardiovascular Research</i> , 2020 , 116, 1199-1213	9.9	18
76	Sudden unexplained death caused by cardiac ryanodine receptor (RyR2) mutations. <i>Mayo Clinic Proceedings</i> , 2004 , 79, 1367-71	6.4	17
75	Reversible redox modifications of ryanodine receptor ameliorate ventricular arrhythmias in the ischemic-reperfused heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 311, H713-24	5.2	17
74	Cardiac expression of the CREM repressor isoform CREM-Ib α -X in mice leads to arrhythmogenic alterations in ventricular cardiomyocytes. <i>Basic Research in Cardiology</i> , 2016 , 111, 15	11.8	16
73	CaMKII effects on inotropic but not lusitropic force frequency responses require phospholamban. <i>Journal of Molecular and Cellular Cardiology</i> , 2012 , 53, 429-36	5.8	16
72	Ryanodine receptor phosphorylation, calcium/calmodulin-dependent protein kinase II, and life-threatening ventricular arrhythmias. <i>Trends in Cardiovascular Medicine</i> , 2011 , 21, 48-51	6.9	16
71	Distinct Cellular Basis for Early Cardiac Arrhythmias, the Cardinal Manifestation of Arrhythmogenic Cardiomyopathy, and the Skin Phenotype of Cardiocutaneous Syndromes. <i>Circulation Research</i> , 2017 , 121, 1346-1359	15.7	15
70	Genetic basis and molecular biology of cardiac arrhythmias in cardiomyopathies. <i>Cardiovascular Research</i> , 2020 , 116, 1600-1619	9.9	15
69	The Role of Non-coding RNAs in Ischemic Myocardial Reperfusion Injury. <i>Cardiovascular Drugs and Therapy</i> , 2019 , 33, 489-498	3.9	15
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