Ruben Coronel

List of Publications by Year
in descending order

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241 papers	10,105 citations	29994 54 h-index	43802 91 g-index
245 all docs	245 docs citations	245 times ranked	8135 citing authors

#	Article	IF	Citations
1	Empagliflozin decreases myocardial cytoplasmic Na+ through inhibition of the cardiac Na+/H+ exchanger in rats and rabbits. Diabetologia, 2017, 60, 568-573.	2.9	468
2	Common variants at SCN5A-SCN10A and HEY2 are associated with Brugada syndrome, a rare disease with high risk of sudden cardiac death. Nature Genetics, 2013, 45, 1044-1049.	9.4	467
3	Class effects of SGLT2 inhibitors in mouse cardiomyocytes and hearts: inhibition of Na+/H+ exchanger, lowering of cytosolic Na+ and vasodilation. Diabetologia, 2018, 61, 722-726.	2.9	412
4	Right Ventricular Fibrosis and Conduction Delay in a Patient With Clinical Signs of Brugada Syndrome. Circulation, 2005, 112, 2769-2777.	1.6	401
5	Activation Delay After Premature Stimulation in Chronically Diseased Human Myocardium Relates to the Architecture of Interstitial Fibrosis. Circulation, 2001, 104, 3069-3075.	1.6	335
6	Dispersion of repolarization in canine ventricle and the electrocardiographic T wave: Tp-e interval does not reflect transmural dispersion. Heart Rhythm, 2007, 4, 341-348.	0.3	244
7	Ventricular tachyrdia in the infarcted, Langendorff-perfused human heart: Role of the arrangement of surviving cardiac fibers. Journal of the American College of Cardiology, 1990, 15, 1594-1607.	1.2	240
8	Monophasic action potentials and activation recovery intervals as measures of ventricular action potential duration: Experimental evidence to resolve some controversies. Heart Rhythm, 2006, 3, 1043-1050.	0.3	180
9	Inhomogeneous Transmural Conduction During Early Ischaemia in Patients with Coronary Artery Disease. Journal of Molecular and Cellular Cardiology, 2000, 32, 621-630.	0.9	178
10	Increased Na+/H+-exchange activity is the cause of increased [Na+]i and underlies disturbed calcium handling in the rabbit pressure and volume overload heart failure model. Cardiovascular Research, 2003, 57, 1015-1024.	1.8	175
11	Pacemaker current (If) in the human sinoatrial node. European Heart Journal, 2007, 28, 2472-2478.	1.0	148
12	Transmural repolarisation in the left ventricle in humans during normoxia and ischaemia. Cardiovascular Research, 2001, 50, 454-462.	1.8	147
13	Developmental Basis for Electrophysiological Heterogeneity in the Ventricular and Outflow Tract Myocardium As a Substrate for Life-Threatening Ventricular Arrhythmias. Circulation Research, 2009, 104, 19-31.	2.0	143
14	Direct Cardiac Actions of Sodium Glucose Cotransporter 2 Inhibitors Target Pathogenic Mechanisms Underlying Heart Failure in Diabetic Patients. Frontiers in Physiology, 2018, 9, 1575.	1.3	130
15	The Brugada ECG Pattern. Circulation: Arrhythmia and Electrophysiology, 2010, 3, 283-290.	2.1	129
16	Intracellular Ca ²⁺ , Intercellular Electrical Coupling, and Mechanical Activity in Ischemic Rabbit Papillary Muscle. Circulation Research, 1996, 79, 237-246.	2.0	128
17	Slow and Discontinuous Conduction Conspire in Brugada Syndrome. Circulation: Arrhythmia and Electrophysiology, 2008, 1, 379-386.	2.1	121
18	Acute ischemia-induced gap junctional uncoupling and arrhythmogenesis. Cardiovascular Research, 2004, 62, 323-334.	1.8	118

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19	Mechanism of right precordial ST-segment elevation in structural heart disease: Excitation failure by current-to-load mismatch. Heart Rhythm, 2010, 7, 238-248.	0.3	117
20	Dispersion of repolarization and arrhythmogenesis. Heart Rhythm, 2009, 6, 537-543.	0.3	113
21	Chronic inhibition of Na/H-exchanger attenuates cardiac hypertrophy and prevents cellular remodeling in heart failure. Cardiovascular Research, 2005, 65, 83-92.	1.8	111
22	Atrial Fibrosis and Conduction Slowing in the Left Atrial Appendage of Patients Undergoing Thoracoscopic Surgical Pulmonary Vein Isolation for Atrial Fibrillation. Circulation: Arrhythmia and Electrophysiology, 2015, 8, 288-295.	2.1	110
23	Wavebreak Formation During Ventricular Fibrillation in the Isolated, Regionally Ischemic Pig Heart. Circulation Research, 2003, 92, 546-553.	2.0	107
24	Repolarization Gradients in the Canine Left Ventricle Before and After Induction of Short-Term Cardiac Memory. Circulation, 2005, 112, 1711-1718.	1.6	104
25	Load-Reducing Therapy Prevents Development of Arrhythmogenic Right Ventricular Cardiomyopathy in Plakoglobin-Deficient Mice. Journal of the American College of Cardiology, 2011, 57, 740-750.	1.2	103
26	Misinterpretation of the mouse ECG: â€˜musing the waves of Mus musculusâ€™. Journal of Physiology, 2014, 592, 4613-4626.	1.3	103
27	Ionic Remodeling of Sinoatrial Node Cells by Heart Failure. Circulation, 2003, 108, 760-766.	1.6	102
28	Is there a significant transmural gradient in repolarization time in the intact heart?. Circulation: Arrhythmia and Electrophysiology, 2009, 2, 89-96.	2.1	102
29	Intercellular coupling through gap junctions masks M cells in the human heart. Cardiovascular Research, 2004, 62, 407-414.	1.8	98
30	Larger Cell Size in Rabbits With Heart Failure Increases Myocardial Conduction Velocity and QRS Duration. Circulation, 2006, 113, 806-813.	1.6	97
31	Validation of a simple model for the morphology of the T wave in unipolar electrograms. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 297, H792-H801.	1.5	95
32	Pro- and antiarrhythmic properties of a diet rich in fish oil. Cardiovascular Research, 2007, 73, 316-325.	1.8	94
33	Reduced Sodium Channel Function Unmasks Residual Embryonic Slow Conduction in the Adult Right Ventricular Outflow Tract. Circulation Research, 2013, 113, 137-141.	2.0	87
34	SR calcium handling and calcium after-transients in a rabbit model of heart failure. Cardiovascular Research, 2003, 58, 99-108.	1.8	86
35	Electrophysiological changes in heart failure and their implications for arrhythmogenesis. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 2432-2441.	1.8	84
36	Incorporated sarcolemmal fish oil fatty acids shorten pig ventricular action potentials. Cardiovascular Research, 2006, 70, 509-520.	1.8	83

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37	Conduction slowing by the gap junctional uncoupler carbenoxolone. Cardiovascular Research, 2003, 60, 288-297.	1.8	82
38	[Na+]i and the driving force of the Na+/Ca2+-exchanger in heart failure. Cardiovascular Research, 2003, 57, 986-995.	1.8	81
39	Mapping and Ablation of Ventricular Fibrillation Associated With Early Repolarization Syndrome. Circulation, 2019, 140, 1477-1490.	1.6	80
40	Defective Tbx2-dependent patterning of the atrioventricular canal myocardium causes accessory pathway formation in mice. Journal of Clinical Investigation, 2011, 121, 534-544.	3.9	78
41	Acute Administration of Fish Oil Inhibits Triggered Activity in Isolated Myocytes From Rabbits and Patients With Heart Failure. Circulation, 2008, 117, 536-544.	1.6	72
42	Origin of ischemia-induced phase 1b ventricular arrhythmias in pig hearts. Journal of the American College of Cardiology, 2002, 39, 166-176.	1.2	71
43	Delayed ischaemic contracture onset by empagliflozin associates with NHE1 inhibition and is dependent on insulin in isolated mouse hearts. Cardiovascular Research, 2019, 115, 1533-1545.	1.8	71
44	Chronic inhibition of the Na⁺/H⁺â€•exchanger causes regression of hypertrophy, heart failure, and ionic and electrophysiological remodelling. British Journal of Pharmacology, 2008, 154, 1266-1275.	2.7	70
45	Localized Structural Alterations Underlying a Subset of Unexplained Sudden Cardiac Death. Circulation: Arrhythmia and Electrophysiology, 2018, 11, e006120.	2.1	67
46	Late ventricular arrhythmias during acute regional ischemia in the isolated blood perfused pig heart Role of electrical cellular coupling. Cardiovascular Research, 2001, 50, 362-372.	1.8	65
47	ST segment elevation by current-to-load mismatch: an experimental and computational study. Heart Rhythm, 2011, 8, 111-118.	0.3	64
48	The Brugada Syndrome Susceptibility Gene HEY2 Modulates Cardiac Transmural Ion Channel Patterning and Electrical Heterogeneity. Circulation Research, 2017, 121, 537-548.	2.0	63
49	Direct cardiac effects of SGLT2 inhibitors. Cardiovascular Diabetology, 2022, 21, 45.	2.7	62
50	Repolarization gradients in the intact heart: Transmural or apico-basal?. Progress in Biophysics and Molecular Biology, 2012, 109, 6-15.	1.4	61
51	Defining heart failure. Cardiovascular Research, 2001, 50, 419-422.	1.8	60
52	Dietary n-3 fatty acids promote arrhythmias during acute regional myocardial ischemia in isolated pig heartsâ˜†. Cardiovascular Research, 2007, 73, 386-394.	1.8	60
53	Changes in Sinus Node Function in a Rabbit Model of Heart Failure With Ventricular Arrhythmias and Sudden Death. Circulation, 2000, 101, 2975-2980.	1.6	58
54	Coxsackie and Adenovirus Receptor Is a Modifier of Cardiac Conduction and Arrhythmia Vulnerability in the Setting of Myocardial Ischemia. Journal of the American College of Cardiology, 2014, 63, 549-559.	1.2	58

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55	Transmural dispersion of refractoriness and conduction velocity is associated with heterogeneously reduced connexin43 in a rabbit model of heart failure. Heart Rhythm, 2008, 5, 1178-1185.	0.3	56
56	Electrocardiographic T Wave and its Relation With Ventricular Repolarization Along Major Anatomical Axes. Circulation: Arrhythmia and Electrophysiology, 2014, 7, 524-531.	2.1	55
57	Cardiac electrical dyssynchrony is accurately detected by noninvasive electrocardiographic imaging. Heart Rhythm, 2018, 15, 1058-1069.	0.3	53
58	The significance of the peer review process against the background of bias: priority ratings of reviewers and editors and the prediction of citation, the role of geographical bias. Cardiovascular Research, 2002, 56, 339-346.	1.8	52
59	Electrotonic cancellation of transmural electrical gradients in the left ventricle in man. Progress in Biophysics and Molecular Biology, 2003, 82, 243-254.	1.4	52
60	Depolarization versus repolarization abnormality underlying inferolateral J-wave syndromes: New concepts in sudden cardiac death with apparently normal hearts. Heart Rhythm, 2019, 16, 781-790.	0.3	52
61	Modulation of Cardiac Arrhythmogenesis by Epicardial Adipose Tissue. Journal of the American College of Cardiology, 2021, 78, 1730-1745.	1.2	52
62	Cardiac mechanisms of the beneficial effects of SGLT2 inhibitors in heart failure: Evidence for potential off-target effects. Journal of Molecular and Cellular Cardiology, 2022, 167, 17-31.	0.9	52
63	Early repolarization in mice causes overestimation of ventricular activation time by the QRS duration. Cardiovascular Research, 2013, 97, 182-191.	1.8	49
64	Ventricular Fibrillation Is Not Always Due to Multiple Wavelet Reentry. Journal of Cardiovascular Electrophysiology, 1995, 6, 512-521.	0.8	48
65	Heterogeneities in [K ⁺] _o and TQ Potential and the Inducibility of Ventricular Fibrillation During Acute Regional Ischemia in the Isolated Perfused Porcine Heart. Circulation, 1995, 92, 120-129.	1.6	48
66	Empagliflozin reduces oxidative stress through inhibition of the novel inflammation/NHE/[Na+]c/ROS-pathway in human endothelial cells. Biomedicine and Pharmacotherapy, 2022, 146, 112515.	2.5	47
67	Laplacian Electrograms and the Interpretation of Complex Ventricular Activation Patterns During Ventricular Fibrillation. Journal of Cardiovascular Electrophysiology, 2000, 11, 1119-1128.	0.8	45
68	Long-term cardiac memory in canine heart is associated with the evolution of a transmural repolarization gradient. Cardiovascular Research, 2007, 74, 416-425.	1.8	45
69	Dietary fish oil reduces pacemaker current and heart rate in rabbit. Heart Rhythm, 2009, 6, 1485-1492.	0.3	44
70	Postrepolarization refractoriness in acute ischemia and after antiarrhythmic drug administration: Action potential duration is not always an index of the refractory period. Heart Rhythm, 2012, 9, 977-982.	0.3	44
71	ST-Segment Elevation and Fractionated Electrograms in Brugada Syndrome Patients Arise From the Same Structurally Abnormal Subepicardial RVOT Area but Have a Different Mechanism. Circulation: Arrhythmia and Electrophysiology, 2015, 8, 1382-1392.	2.1	43
72	Regrets or no regrets? No regrets! The fate of rejected manuscripts. Cardiovascular Research, 2000, 45, 255-258.	1.8	42

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73	Oscillatory behavior of ventricular action potential duration in heart failure patients at respiratory rate and low frequency. Frontiers in Physiology, 2014, 5, 414.	1.3	42
74	Dispersion in ventricular repolarization in the human, canine and porcine heart. Progress in Biophysics and Molecular Biology, 2016, 120, 222-235.	1.4	41
75	Mechanical effects on arrhythmogenesis: from pipette to patient. Progress in Biophysics and Molecular Biology, 2003, 82, 187-195.	1.4	40
76	An activation-repolarization time metric to predict localized regions of high susceptibility to reentry. Heart Rhythm, 2015, 12, 1644-1653.	0.3	40
77	Feasibility of a semi-automated method for cardiac conduction velocity analysis of high-resolution activation maps. Computers in Biology and Medicine, 2015, 65, 177-183.	3.9	40
78	Cellular Uncoupling During Ischemia in Hypertrophied and Failing Rabbit Ventricular Myocardium. Circulation, 1998, 97, 1724-1730.	1.6	39
79	Sodium-glucose co-transporter 2 inhibitor empagliflozin inhibits the cardiac Na+/H+ exchanger 1: persistent inhibition under various experimental conditions. Cardiovascular Research, 2021, 117, 2699-2701.	1.8	37
80	Treatment of Atrial and VentricularÂArrhythmias ThroughÂAutonomic Modulation. JACC: Clinical Electrophysiology, 2015, 1, 496-508.	1.3	36
81	Cardiac activationâ€“repolarization patterns and ion channel expression mapping in intact isolated normal human hearts. Heart Rhythm, 2017, 14, 265-272.	0.3	36
82	A wedge is not a heart. Heart Rhythm, 2007, 4, 1116-1119.	0.3	34
83	Dietary fish oil reduces the incidence of triggered arrhythmias in pig ventricular myocytes. Heart Rhythm, 2007, 4, 1452-1460.	0.3	34
84	Reconstituted High-Density Lipoprotein Shortens Cardiac Repolarization. Journal of the American College of Cardiology, 2011, 58, 40-44.	1.2	34
85	Investigating a Novel Activation-Repolarisation Time Metric to Predict Localised Vulnerability to Reentry Using Computational Modelling. PLoS ONE, 2016, 11, e0149342.	1.1	30
86	Dietary fish oil reduces the occurrence of early afterdepolarizations in pig ventricular myocytes. Journal of Molecular and Cellular Cardiology, 2006, 41, 914-917.	0.9	29
87	Left atrial pressure reduction for mitral stenosis reverses left atrial direction-dependent conduction abnormalities. Cardiovascular Research, 2010, 85, 711-718.	1.8	29
88	Profibrillatory Effects of Intracoronary Thrombus in Acute Regional Ischemia of the In Situ Porcine Heart. Circulation, 1997, 96, 3985-3991.	1.6	29
89	The effect of lesion size and tissue remodeling on ST deviation in partial-thickness ischemia. Heart Rhythm, 2007, 4, 200-206.	0.3	28
90	Counterpoint: M cells do not have a functional role in the ventricular myocardium of the intact heart. Heart Rhythm, 2011, 8, 934-937.	0.3	28

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91	Arrhythmogenesis in Heart Failure. Journal of Cardiovascular Electrophysiology, 2001, 12, 496-499.	0.8	27
92	Concise Review: Pluripotent Stem Cell-Derived Cardiac Cells, A Promising Cell Source for Therapy of Heart Failure: Where Do We Stand?. Stem Cells, 2016, 34, 34-43.	1.4	27
93	Effects of cell-to-cell uncoupling and catecholamines on Purkinje and ventricular action potentials: implications for phase-1b arrhythmias. Cardiovascular Research, 2001, 51, 30-40.	1.8	26
94	Intrinsic heterogeneity in repolarization is increased in isolated failing rabbit cardiomyocytes during simulated ischemia. Cardiovascular Research, 2003, 59, 705-714.	1.8	26
95	Single Cells Isolated from Human Sinoatrial Node: Action Potentials and Numerical Reconstruction of Pacemaker Current. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 904-7.	0.5	26
96	Cardiac expression of skeletal muscle sodium channels increases longitudinal conduction velocity in the canine 1-week myocardial infarction. Heart Rhythm, 2010, 7, 1104-1110.	0.3	26
97	Impact factors: no totum pro parte by skewness of citation. Cardiovascular Research, 2004, 61, 201-203.	1.8	25
98	Cyclical modulation of human ventricular repolarization by respiration. Frontiers in Physiology, 2012, 3, 379.	1.3	25
99	Transmural electrophysiological heterogeneity, the T-wave and ventricular arrhythmias. Progress in Biophysics and Molecular Biology, 2016, 122, 202-214.	1.4	25
100	Experimental Validation of Noninvasive Epicardial and Endocardial Activation Imaging. Circulation: Arrhythmia and Electrophysiology, 2016, 9, e004104.	2.1	25
101	The Blinding Period Following Ablation Therapy for Atrial Fibrillation. JACC: Clinical Electrophysiology, 2021, 7, 416-430.	1.3	25
102	Slow potentials in the atrioventricular junctional area of patients operated on for atrioventricular node tachycardias and in isolated porcine hearts. Journal of the American College of Cardiology, 1994, 23, 709-715.	1.2	24
103	Disparate response of high-frequency ganglionic plexus stimulation on sinus node function and atrial propagation in patients with atrial fibrillation. Heart Rhythm, 2014, 11, 1743-1751.	0.3	24
104	Electrophysiological Abnormalities in VLCAD Deficient hiPSC-Cardiomyocytes Can Be Improved by Lowering Accumulation of Fatty Acid Oxidation Intermediates. International Journal of Molecular Sciences, 2020, 21, 2589.	1.8	24
105	Effects of Intracavitary Blood Flow and Electrodeâ€“Target Distance on Radiofrequency Power Required for Transient Conduction Block in a Langendorff-Perfused Canine Model. Journal of the American College of Cardiology, 1998, 31, 231-235.	1.2	23
106	Advantages and pitfalls of noninvasive electrocardiographic imaging. Journal of Electrocardiology, 2019, 57, S15-S20.	0.4	23
107	Quantitative trait loci for electrocardiographic parameters and arrhythmia in the mouse. Journal of Molecular and Cellular Cardiology, 2011, 50, 380-389.	0.9	22
108	Dyscholesterolemia Protects Against Ischemia-Induced Ventricular Arrhythmias. Circulation: Arrhythmia and Electrophysiology, 2015, 8, 1481-1490.	2.1	22

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109	Empagliflozin Decreases Lactate Generation in an NHE-1 Dependent Fashion and Increases Î±-Ketoglutarate Synthesis From Palmitate in Type II Diabetic Mouse Hearts. Frontiers in Cardiovascular Medicine, 2020, 7, 592233.	1.1	22
110	Reentry in survived subepicardium coupled to depolarized and inexcitable midmyocardium: Insights into arrhythmogenesis in ischemia phase 1B. Heart Rhythm, 2008, 5, 1036-1044.	0.3	20
111	A Diet Rich in Unsaturated Fatty Acids Prevents Progression Toward Heart Failure in a Rabbit Model of Pressure and Volume Overload. Circulation: Heart Failure, 2012, 5, 376-384.	1.6	20
112	Stem cells can form gap junctions with cardiac myocytes and exert pro-arrhythmic effects. Frontiers in Physiology, 2014, 5, 419.	1.3	20
113	Reduced swelling-activated Clâ¯ current densities in hypertrophied ventricular myocytes of rabbits with heart failure. Cardiovascular Research, 2002, 53, 869-878.	1.8	19
114	Organization and collateralization of a subendocardial plexus in end-stage human heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H158-H162.	1.5	19
115	Acetylcholine Delays Atrial Activation to Facilitate Atrial Fibrillation. Frontiers in Physiology, 2019, 10, 1105.	1.3	19
116	T-box transcription factor 3 governs a transcriptional program for the function of the mouse atrioventricular conduction system. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18617-18626.	3.3	19
117	The effect of enhanced gap junctional conductance on ventricular conduction in explanted hearts from patients with heart failure. Basic Research in Cardiology, 2009, 104, 321-332.	2.5	18
118	Critical repolarization gradients determine the induction of reentry-based torsades de pointes arrhythmia in models of long QT syndrome. Heart Rhythm, 2021, 18, 278-287.	0.3	18
119	Intracellular Ca2+ and delay of ischemia-induced electrical uncoupling in preconditioned rabbit ventricular myocardium. Cardiovascular Research, 1999, 44, 101-112.	1.8	17
120	Electrocardiographic Imaging of Repolarization Abnormalities. Journal of the American Heart Association, 2021, 10, e020153.	1.6	17
121	Mechanism of the effects of sodium channel blockade on the arrhythmogenic substrate of Brugada syndrome. Heart Rhythm, 2022, 19, 407-416.	0.3	17
122	Incorporated Fish Oil Fatty Acids Prevent Action Potential Shortening Induced by Circulating Fish Oil Fatty Acids. Frontiers in Physiology, 2010, 1, 149.	1.3	16
123	Ventricular fibrillation hampers the restoration of creatine-phosphate levels during simulated cardiopulmonary resuscitations. Europace, 2012, 14, 1518-1523.	0.7	16
124	Synchronization of repolarization by mechano-electrical coupling in the porcine heart. Cardiovascular Research, 2015, 108, 181-187.	1.8	16
125	The role of the reviewer in editorial decision-making. Cardiovascular Research, 1999, 43, 261-264.	1.8	15
126	The Driving Force of the Na+/Ca2+-Exchanger during Metabolic Inhibition. Frontiers in Physiology, 2011, 2, 10.	1.3	15

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127	Increased amount of atrial fibrosis in patients with atrial fibrillation secondary to mitral valve disease. Journal of Thoracic and Cardiovascular Surgery, 2012, 144, 327-333.	0.4	15
128	The Association of Abnormal Ventricular Wall Motion and Increased Dispersion of Repolarization in Humans is Independent of the Presence of Myocardial Infarction. Frontiers in Physiology, 2012, 3, 235.	1.3	15
129	Increased Late Sodium Current Contributes to the Electrophysiological Effects of Chronic, but Not Acute, Dofetilide Administration. Circulation: Arrhythmia and Electrophysiology, 2016, 9, e003655.	2.1	15
130	Local transmural action potential gradients are absent in the isolated, intact dog heart but present in the corresponding coronary-perfused wedge. Physiological Reports, 2017, 5, e13251.	0.7	15
131	Structurally Abnormal Myocardium Underlies Ventricular Fibrillation Storms in a Patient Diagnosed With the EarlyÂRepolarization Pattern. JACC: Clinical Electrophysiology, 2020, 6, 1395-1404.	1.3	15
132	Effects of ECG Signal Processing on the Inverse Problem of Electrocardiography. , 2018, 45, .		15
133	How to measure propagation velocity in cardiac tissue: a simulation study. Frontiers in Physiology, 2014, 5, 267.	1.3	14
134	Noninvasive detection of spatiotemporal activation-repolarization interactions that prime idiopathic ventricular fibrillation. Science Translational Medicine, 2021, 13, eabi9317.	5.8	14
135	Critical appraisal of the mechanism underlying J waves. Journal of Electrocardiology, 2013, 46, 390-394.	0.4	13
136	Reduced Sodium Current in the Lateral Ventricular Wall Induces Inferolateral J-Waves. Frontiers in Physiology, 2016, 7, 365.	1.3	13
137	Embryonic development of the right ventricular outflow tract and arrhythmias. Heart Rhythm, 2016, 13, 616-622.	0.3	13
138	Fractionated electrograms with ST-segment elevation recorded from the human right ventricular outflow tract. HeartRhythm Case Reports, 2017, 3, 546-550.	0.2	13
139	Secretome of atrial epicardial adipose tissue facilitates reentrant arrhythmias by myocardial remodeling. Heart Rhythm, 2022, 19, 1461-1470.	0.3	13
140	Submissions, impact factor, reviewer's recommendations and geographical bias within the peer review system (1997â€“2002) Focus on Germany. Cardiovascular Research, 2002, 55, 215-219.	1.8	12
141	The role of extracellular potassium transport in computer models of the ischemic zone. Medical and Biological Engineering and Computing, 2007, 45, 1187-1199.	1.6	12
142	Anti- or profibrillatory effects of Na+ channel blockade depend on the site of application relative to gradients in repolarization. Frontiers in Physiology, 2010, 1, 10.	1.3	12
143	Engineering and ethical constraints. Medical and Biological Engineering and Computing, 2011, 49, 1-2.	1.6	12
144	Stellate ganglion stimulation causes spatiotemporal changes in ventricular repolarization in pig. Heart Rhythm, 2020, 17, 795-803.	0.3	12

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145	KATP Channel Opening During Ischemia: Effects on Myocardial Noradrenaline Release and Ventricular Arrhythmias. Journal of Cardiovascular Pharmacology, 2001, 38, 406-416.	0.8	11
146	Differences in fatty acid composition between cerebral brain lobes in juvenile pigs after fish oil feeding. British Journal of Nutrition, 2008, 100, 794-800.	1.2	11
147	Interventricular dispersion in repolarization causes bifid T waves in dogs with dofetilide-induced long QT syndrome. Heart Rhythm, 2015, 12, 1343-1351.	0.3	11
148	Fibrosis and Conduction Abnormalities as Basis for Overlap of Brugada Syndrome and Early Repolarization Syndrome. International Journal of Molecular Sciences, 2021, 22, 1570.	1.8	11
149	Why the Brugada syndrome is not yet a disease: Syndromes, diseases, and genetic causality. Cardiovascular Research, 2006, 72, 361-363.	1.8	10
150	Validation of quantitative measure of repolarization reserve as a novel marker of drug induced proarrhythmia. Journal of Molecular and Cellular Cardiology, 2020, 145, 122-132.	0.9	10
151	Electrophysiologic Changes and Ventricular Fibrillation in Acute Regional Ischemia in the Porcine Heart: The Concept of Wavelength. Journal of Cardiovascular Electrophysiology, 1992, 3, 128-140.	0.8	9
152	Detection and quantification methods of monocyte homing in coronary vasculature with an imaging cryomicrotome. Journal of Molecular and Cellular Cardiology, 2014, 76, 196-204.	0.9	9
153	The pro- or antiarrhythmic actions of polyunsaturated fatty acids and of cholesterol. , 2017, 176, 40-47.		9
154	Differential Mechanisms of Myocardial Conduction Slowing by Adipose Tissue-Derived Stromal Cells Derived from Different Species. Stem Cells Translational Medicine, 2017, 6, 22-30.	1.6	9
155	Neurokinin-3 receptor activation selectively prolongs atrial refractoriness by inhibition of a background K+ channel. Nature Communications, 2018, 9, 4357.	5.8	9
156	Recombinant human collagen-based microspheres mitigate cardiac conduction slowing induced by adipose tissue-derived stromal cells. PLoS ONE, 2017, 12, e0183481.	1.1	9
157	Naked mole-rats maintain cardiac function and body composition well into their fourth decade of life. GeroScience, 2022, , 1.	2.1	9
158	Risk of out-of-hospital cardiac arrest in patients with rheumatoid arthritis: a nationwide study. Open Heart, 2022, 9, e001987.	0.9	9
159	The most frequently cited papers of Cardiovascular Research (1967â€“1998) 'The Millennium Minutes'. Cardiovascular Research, 2000, 45, 3-5.	1.8	8
160	Fish oil curtails the human action potential dome in a heterogeneous manner: Implication for arrhythmogenesis. International Journal of Cardiology, 2009, 132, 138-140.	0.8	8
161	Dietary Omega-3 Polyunsaturated Fatty Acids Suppress NHE-1 Upregulation in a Rabbit Model of Volume- and Pressure-Overload. Frontiers in Physiology, 2012, 3, 76.	1.3	8
162	Why Ablation of Sites With Purkinje Activation Is Antiarrhythmic: The Interplay Between Fast Activation and Arrhythmogenesis. Frontiers in Physiology, 2021, 12, 648396.	1.3	8

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163	Interplay between temporal and spatial dispersion of repolarization in the initiation and perpetuation of torsades de pointes in the chronic atrioventricular block dog. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 321, H569-H576.	1.5	8
164	The normal range and determinants of the intrinsic heart rate in man. Cardiovascular Research, 2000, 45, 175-176.	1.8	7
165	The Response to Fish Oil in Patients with Heart Disease Depends on the Predominant Arrhythmia Mechanism. Cardiovascular Drugs and Therapy, 2009, 23, 333-334.	1.3	7
166	Noninvasive detection of epicardial and endocardial activity of the heart. Netherlands Heart Journal, 2011, 19, 488-491.	0.3	7
167	Transient ST-segment elevation and coronary flow. European Heart Journal, 2019, 40, 2463-2464.	1.0	7
168	J-Waves in Epicardial Electrograms Can Guide Ablation of Arrhythmogenic Substrates. Circulation Research, 2019, 124, 205-207.	2.0	7
169	R 56865 Delays Cellular Electrical Uncoupling in Ischemic Rabbit Papillary Muscle. Journal of Molecular and Cellular Cardiology, 1993, 25, 1059-1066.	0.9	6
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171	To The Editorâ€”Response. Heart Rhythm, 2007, 4, 121.	0.3	6
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