Jose Jalife

List of Publications by Citations

299 papers	24,781 citations	78 h-index	152 g-index
343 ext. papers	29,214 ext. citations	7.6 avg, IF	6.68 L-index

#	Paper	IF	Citations
299	2012 HRS/EHRA/ECAS expert consensus statement on catheter and surgical ablation of atrial fibrillation: recommendations for patient selection, procedural techniques, patient management and follow-up, definitions, endpoints, and research trial design: a report of the Heart Rhythm	6.7	1314
298	2012 HRS/EHRA/ECAS Expert Consensus Statement on Catheter and Surgical Ablation of Atrial Fibrillation: recommendations for patient selection, procedural techniques, patient management and follow-up, definitions, endpoints, and research trial design. *Europace*, **2012**, 14, 528-606	3.9	1160
297	Stationary and drifting spiral waves of excitation in isolated cardiac muscle. *Nature*, **1992**, 355, 349-51	50.4	1017
296	Spatial and temporal organization during cardiac fibrillation. *Nature*, **1998**, 392, 75-8	50.4	723
295	Spectral analysis identifies sites of high-frequency activity maintaining atrial fibrillation in humans. *Circulation*, **2005**, 112, 789-97	16.7	659
294	Stable microreentrant sources as a mechanism of atrial fibrillation in the isolated sheep heart. *Circulation*, **2000**, 101, 194-9	16.7	584
293	A novel form of short QT syndrome (SQT3) is caused by a mutation in the KCNJ2 gene. *Circulation Research*, **2005**, 96, 800-7	15.7	495
292	2017 HRS/EHRA/ECAS/APHRS/SOLAECE expert consensus statement on catheter and surgical ablation of atrial fibrillation. *Europace*, **2018**, 20, e1-e160	3.9	461
291	Mother rotors and fibrillatory conduction: a mechanism of atrial fibrillation. *Cardiovascular Research* , **2002**, 54, 204-16	9.9	397
290	Spatiotemporal periodicity during atrial fibrillation in the isolated sheep heart. *Circulation*, **1998**, 98, 1236-48	16.7	393
289	Prevention of atrial fibrillation: report from a national heart, lung, and blood institute workshop. *Circulation*, **2009**, 119, 606-18	16.7	378
288	Mechanisms of Cardiac Fibrillation. *Science*, **1995**, 270, 1222-1222	33.3	360
287	Extracellular matrix promotes highly efficient cardiac differentiation of human pluripotent stem cells: the matrix sandwich method. *Circulation Research*, **2012**, 111, 1125-36	15.7	341
286	Mechanisms of wave fractionation at boundaries of high-frequency excitation in the posterior left atrium of the isolated sheep heart during atrial fibrillation. *Circulation*, **2006**, 113, 626-33	16.7	339
285	Left-to-right gradient of atrial frequencies during acute atrial fibrillation in the isolated sheep heart. *Circulation*, **2001**, 103, 2631-6	16.7	303
284	Intra-atrial pressure increases rate and organization of waves emanating from the superior pulmonary veins during atrial fibrillation. *Circulation*, **2003**, 108, 668-71	16.7	268
283	EHRA/HRS/APHRS/SOLAECE expert consensus on atrial cardiomyopathies: definition, characterization, and clinical implication. *Europace*, **2016**, 18, 1455-1490	3.9	268

282	Ventricular fibrillation: mechanisms of initiation and maintenance. *Annual Review of Physiology*, **2000**, 62, 25-50	23.1	266
281	Rotors and the dynamics of cardiac fibrillation. *Circulation Research*, **2013**, 112, 849-62	15.7	258
280	Biobank-driven genomic discovery yields new insight into atrial fibrillation biology. *Nature Genetics*, **2018**, 50, 1234-1239	36.3	254
279	Spatial distribution of fibrosis governs fibrillation wave dynamics in the posterior left atrium during heart failure. *Circulation Research*, **2007**, 101, 839-47	15.7	253
278	Rectification of the background potassium current: a determinant of rotor dynamics in ventricular fibrillation. *Circulation Research*, **2001**, 89, 1216-23	15.7	251
277	2012 HRS/EHRA/ECAS expert consensus statement on catheter and surgical ablation of atrial fibrillation: recommendations for patient selection, procedural techniques, patient management and follow-up, definitions, endpoints, and research trial design. *Journal of Interventional Cardiac*	2.4	250
276	Real-time dominant frequency mapping and ablation of dominant frequency sites in atrial fibrillation with left-to-right frequency gradients predicts long-term maintenance of sinus rhythm. *Heart Rhythm*, **2009**, 6, 33-40	6.7	244
275	Human atrial action potential and Ca2+ model: sinus rhythm and chronic atrial fibrillation. *Circulation Research*, **2011**, 109, 1055-66	15.7	238
274	Purkinje-muscle reentry as a mechanism of polymorphic ventricular arrhythmias in a 3-dimensional model of the ventricles. *Circulation Research*, **1998**, 82, 1063-77	15.7	229
273	2017 HRS/EHRA/ECAS/APHRS/SOLAECE expert consensus statement on catheter and surgical ablation of atrial fibrillation: Executive summary. *Europace*, **2018**, 20, 157-208	3.9	227
272	Activation of inward rectifier potassium channels accelerates atrial fibrillation in humans: evidence for a reentrant mechanism. *Circulation*, **2006**, 114, 2434-42	16.7	219
271	Arrhythmogenic mechanisms in a mouse model of catecholaminergic polymorphic ventricular tachycardia. *Circulation Research*, **2007**, 101, 1039-48	15.7	215
270	Characterization of conduction in the ventricles of normal and heterozygous Cx43 knockout mice using optical mapping. *Journal of Cardiovascular Electrophysiology*, **1999**, 10, 1361-75	2.7	207
269	Distribution of excitation frequencies on the epicardial and endocardial surfaces of fibrillating ventricular wall of the sheep heart. *Circulation Research*, **2000**, 86, 408-17	15.7	205
268	Low dimensional chaos in cardiac tissue. *Nature*, **1990**, 343, 653-7	50.4	205
267	Optical imaging of voltage and calcium in cardiac cells & tissues. *Circulation Research*, **2012**, 110, 609-23	15.7	204
266	Ionic determinants of functional reentry in a 2-D model of human atrial cells during simulated chronic atrial fibrillation. *Biophysical Journal*, **2005**, 88, 3806-21	2.9	190
265	Rotors and spiral waves in atrial fibrillation. *Journal of Cardiovascular Electrophysiology*, **2003**, 14, 776-80	2.7	190

264	The inward rectifier current (IK1) controls cardiac excitability and is involved in arrhythmogenesis. *Heart Rhythm*, **2005**, 2, 316-24	6.7	179
263	Electrotonic myofibroblast-to-myocyte coupling increases propensity to reentrant arrhythmias in two-dimensional cardiac monolayers. *Biophysical Journal*, **2008**, 95, 4469-80	2.9	175
262	Phase resetting and annihilation of pacemaker activity in cardiac tissue. *Science*, **1979**, 206, 695-7	33.3	168
261	Frequency-dependent breakdown of wave propagation into fibrillatory conduction across the pectinate muscle network in the isolated sheep right atrium. *Circulation Research*, **2002**, 90, 1173-80	15.7	165
260	Visualizing excitation waves inside cardiac muscle using transillumination. *Biophysical Journal*, **2001**, 80, 516-30	2.9	158
259	A biologic model of parasystole. *American Journal of Cardiology*, **1979**, 43, 761-72	3	157
258	Comparison of radiofrequency catheter ablation of drivers and circumferential pulmonary vein isolation in atrial fibrillation: a noninferiority randomized multicenter RADAR-AF trial. *Journal of the American College of Cardiology*, **2014**, 64, 2455-67	15.1	152
257	High-frequency periodic sources underlie ventricular fibrillation in the isolated rabbit heart. *Circulation Research*, **2000**, 86, 86-93	15.7	149
256	Non-linear dynamics of cardiac excitation and impulse propagation. *Nature*, **1987**, 330, 749-52	50.4	149
255	2017 HRS/EHRA/ECAS/APHRS/SOLAECE expert consensus statement on catheter and surgical ablation of atrial fibrillation: Executive summary. *Journal of Arrhythmia*, **2017**, 33, 369-409	1.5	148
254	Cardiac fibrillation: from ion channels to rotors in the human heart. *Heart Rhythm*, **2008**, 5, 872-9	6.7	141
253	Spatially distributed dominant excitation frequencies reveal hidden organization in atrial fibrillation in the Langendorff-perfused sheep heart. *Journal of Cardiovascular Electrophysiology*, **2000**, 11, 869-79	2.7	139
252	EHRA/HRS/APHRS/SOLAECE expert consensus on atrial cardiomyopathies: Definition, characterization, and clinical implication. *Heart Rhythm*, **2017**, 14, e3-e40	6.7	138
251	Simultaneous voltage and calcium mapping of genetically purified human induced pluripotent stem cell-derived cardiac myocyte monolayers. *Circulation Research*, **2012**, 110, 1556-63	15.7	138
250	Cholinergic atrial fibrillation: I(K,ACh) gradients determine unequal left/right atrial frequencies and rotor dynamics. *Cardiovascular Research*, **2003**, 59, 863-73	9.9	137
249	Extracellular Matrix-Mediated Maturation of Human Pluripotent Stem Cell-Derived Cardiac Monolayer Structure and Electrophysiological Function. *Circulation: Arrhythmia and Electrophysiology*, **2016**, 9, e003638	6.4	135
248	Atrial remodeling, fibrosis, and atrial fibrillation. *Trends in Cardiovascular Medicine*, **2015**, 25, 475-84	6.9	133
247	Dynamic reciprocity of sodium and potassium channel expression in a macromolecular complex controls cardiac excitability and arrhythmia. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, E2134-43	11.5	133

246	Atrial fibrillation is associated with the fibrotic remodelling of adipose tissue in the subepicardium of human and sheep atria. *European Heart Journal*, **2017**, 38, 53-61	9.5	126
245	Optical mapping of drug-induced polymorphic arrhythmias and torsade de pointes in the isolated rabbit heart. *Journal of the American College of Cardiology*, **1997**, 29, 831-42	15.1	123
244	Null mutation of connexin43 causes slow propagation of ventricular activation in the late stages of mouse embryonic development. *Circulation Research*, **2001**, 88, 1196-202	15.7	123
243	Spiral waves in two-dimensional models of ventricular muscle: formation of a stationary core. *Biophysical Journal*, **1998**, 75, 1-14	2.9	121
242	Blockade of the inward rectifying potassium current terminates ventricular fibrillation in the guinea pig heart. *Journal of Cardiovascular Electrophysiology*, **2003**, 14, 621-31	2.7	116
241	Up-regulation of the inward rectifier K+ current (I K1) in the mouse heart accelerates and stabilizes rotors. *Journal of Physiology*, **2007**, 578, 315-26	3.9	113
240	Dominant frequency increase rate predicts transition from paroxysmal to long-term persistent atrial fibrillation. *Circulation*, **2014**, 129, 1472-82	16.7	112
239	Sustained vortex-like waves in normal isolated ventricular muscle. *Proceedings of the National Academy of Sciences of the United States of America*, **1990**, 87, 8785-9	11.5	109
238	KCNJ2 mutation in short QT syndrome 3 results in atrial fibrillation and ventricular proarrhythmia. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 4291-6	11.5	108
237	Mechanisms of atrial fibrillation termination by pure sodium channel blockade in an ionically-realistic mathematical model. *Circulation Research*, **2005**, 96, e35-47	15.7	107
236	Role of conduction velocity restitution and short-term memory in the development of action potential duration alternans in isolated rabbit hearts. *Circulation*, **2008**, 118, 17-25	16.7	104
235	Self-organization and the dynamical nature of ventricular fibrillation. *Chaos*, **1998**, 8, 79-93	3.3	101
234	Conditional lineage ablation to model human diseases. *Proceedings of the National Academy of Sciences of the United States of America*, **1998**, 95, 11371-6	11.5	97
233	Optical mapping of Langendorff-perfused human hearts: establishing a model for the study of ventricular fibrillation in humans. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 293, H875-80	5.2	92
232	Wavebreak formation during ventricular fibrillation in the isolated, regionally ischemic pig heart. *Circulation Research*, **2003**, 92, 546-53	15.7	92
231	Loss of H3K4 methylation destabilizes gene expression patterns and physiological functions in adult murine cardiomyocytes. *Journal of Clinical Investigation*, **2011**, 121, 2641-50	15.9	91
230	Dynamics of wavelets and their role in atrial fibrillation in the isolated sheep heart. *Cardiovascular Research*, **2000**, 48, 220-32	9.9	87
229	Noninvasive localization of maximal frequency sites of atrial fibrillation by body surface potential mapping. *Circulation: Arrhythmia and Electrophysiology*, **2013**, 6, 294-301	6.4	83

228	Immunohistochemical characterization of the intrinsic cardiac neural plexus in whole-mount mouse heart preparations. *Heart Rhythm*, **2011**, 8, 731-8	6.7	83
227	Ion channel macromolecular complexes in cardiomyocytes: roles in sudden cardiac death. *Circulation Research*, **2015**, 116, 1971-88	15.7	81
226	DJ□vu in the theories of atrial fibrillation dynamics. *Cardiovascular Research*, **2011**, 89, 766-75	9.9	81
225	Dynamics of rotating vortices in the Beeler-Reuter model of cardiac tissue. *Chaos, Solitons and Fractals*, **1995**, 5, 513-526	9.3	81
224	From mouse to whale: a universal scaling relation for the PR Interval of the electrocardiogram of mammals. *Circulation*, **2004**, 110, 2802-8	16.7	79
223	Altered right atrial excitation and propagation in connexin40 knockout mice. *Circulation*, **2005**, 112, 2245-53	16.7	78
222	Mechanisms underlying ventricular tachycardia and its transition to ventricular fibrillation in the structurally normal heart. *Cardiovascular Research*, **2001**, 50, 242-50	9.9	78
221	Functional cardiac fibroblasts derived from human pluripotent stem cells via second heart field progenitors. *Nature Communications*, **2019**, 10, 2238	17.4	76
220	Nerve supply of the human pulmonary veins: an anatomical study. *Heart Rhythm*, **2009**, 6, 221-8	6.7	75
219	Myosin light chain 2-based selection of human iPSC-derived early ventricular cardiac myocytes. *Stem Cell Research*, **2013**, 11, 1335-47	1.6	74
218	Role of extracellular histones in the cardiomyopathy of sepsis. *FASEB Journal*, **2015**, 29, 2185-93	0.9	73
217	2017 HRS/EHRA/ECAS/APHRS/SOLAECE expert consensus statement on catheter and surgical ablation of atrial fibrillation: Executive summary. *Heart Rhythm*, **2017**, 14, e445-e494	6.7	72
216	Effects of diacetyl monoxime on the electrical properties of sheep and guinea pig ventricular muscle. *Cardiovascular Research*, **1993**, 27, 1991-7	9.9	72
215	The case for modulated parasystole. *PACE - Pacing and Clinical Electrophysiology*, **1982**, 5, 911-26	1.6	72
214	Synthesis of voltage-sensitive fluorescence signals from three-dimensional myocardial activation patterns. *Biophysical Journal*, **2003**, 85, 2673-83	2.9	71
213	Minimal principle for rotor filaments. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 8015-8	11.5	71
212	Left versus right atrial difference in dominant frequency, K(+) channel transcripts, and fibrosis in patients developing atrial fibrillation after cardiac surgery. *Heart Rhythm*, **2009**, 6, 1415-22	6.7	70
211	Galectin-3 Regulates Atrial Fibrillation Remodeling and Predicts Catheter Ablation Outcomes. *JACC Basic To Translational Science*, **2016**, 1, 143-154	8.7	70

210	Ventricular fibrillation and atrial fibrillation are two different beasts. *Chaos*, **1998**, 8, 65-78	3.3	69
209	Connexins and impulse propagation in the mouse heart. *Journal of Cardiovascular Electrophysiology*, **1999**, 10, 1649-63	2.7	68
208	Venice Chart international consensus document on atrial fibrillation ablation: 2011 update. *Journal of Cardiovascular Electrophysiology*, **2012**, 23, 890-923	2.7	65
207	Purkinje cell calcium dysregulation is the cellular mechanism that underlies catecholaminergic polymorphic ventricular tachycardia. *Heart Rhythm*, **2010**, 7, 1122-8	6.7	64
206	A fungal metabolite that eliminates motion artifacts. *Journal of Cardiovascular Electrophysiology*, **1998**, 9, 1358-62	2.7	63
205	Atrial Myopathy. *JACC Basic To Translational Science*, **2019**, 4, 640-654	8.7	60
204	Atrial septopulmonary bundle of the posterior left atrium provides a substrate for atrial fibrillation initiation in a model of vagally mediated pulmonary vein tachycardia of the structurally normal heart. *Circulation: Arrhythmia and Electrophysiology*, **2008**, 1, 175-83	6.4	60
203	EHRA/HRS/APHRS/SOLAECE expert consensus on Atrial cardiomyopathies: Definition, characterisation, and clinical implication. *Journal of Arrhythmia*, **2016**, 32, 247-78	1.5	59
202	Arrhythmogenesis in a catecholaminergic polymorphic ventricular tachycardia mutation that depresses ryanodine receptor function. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E1669-77	11.5	58
201	2017 HRS/EHRA/ECAS/APHRS/SOLAECE expert consensus statement on catheter and surgical ablation of atrial fibrillation: executive summary. *Journal of Interventional Cardiac Electrophysiology*, **2017**, 50, 1-55	2.4	58
200	Long-term frequency gradients during persistent atrial fibrillation in sheep are associated with stable sources in the left atrium. *Circulation: Arrhythmia and Electrophysiology*, **2012**, 5, 1160-7	6.4	58
199	Paroxysmal atrioventricular block: are phase 3 and phase 4 block mechanisms or misnomers?. *Heart Rhythm*, **2009**, 6, 1514-21	6.7	57
198	SPIRAL WAVES AND THE HEART. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **1996**, 06, 415-435	2	57
197	Use of Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes in Preclinical Cancer Drug Cardiotoxicity Testing: A Scientific Statement From the American Heart Association. *Circulation Research*, **2019**, 125, e75-e92	15.7	55
196	Mechanisms of stretch-induced atrial fibrillation in the presence and the absence of adrenocholinergic stimulation: interplay between rotors and focal discharges. *Heart Rhythm*, **2009**, 6, 1009-17	6.7	55
195	Elevated pre-operative serum peptides for collagen I and III synthesis result in post-surgical atrial fibrillation. *Journal of the American College of Cardiology*, **2012**, 60, 1799-806	15.1	54
194	Adenoviral expression of IKs contributes to wavebreak and fibrillatory conduction in neonatal rat ventricular cardiomyocyte monolayers. *Circulation Research*, **2007**, 101, 475-83	15.7	54
193	Genome-wide Study of Atrial Fibrillation Identifies Seven Risk Loci and Highlights Biological Pathways and Regulatory Elements Involved in Cardiac Development. *American Journal of Human Genetics*, **2018**, 102, 103-115	11	53

192	TGF-β1, released by myofibroblasts, differentially regulates transcription and function of sodium and potassium channels in adult rat ventricular myocytes. *PLoS ONE*, **2013**, 8, e55391	3.7	53
191	Drifting vortices of electrical waves underlie ventricular fibrillation in the rabbit heart. *Acta Physiologica Scandinavica*, **1996**, 157, 123-31		53
190	miR-208b upregulation interferes with calcium handling in HL-1 atrial myocytes: Implications in human chronic atrial fibrillation. *Journal of Molecular and Cellular Cardiology*, **2016**, 99, 162-173	5.8	51
189	Spiral waves in normal isolated ventricular muscle. *Physica D: Nonlinear Phenomena*, **1991**, 49, 182-197	3.3	51
188	Mechanisms of persistent atrial fibrillation. *Current Opinion in Cardiology*, **2014**, 29, 20-7	2.1	50
187	Proton and zinc effects on HERG currents. *Biophysical Journal*, **1999**, 77, 282-98	2.9	50
186	Epicardial neural ganglionated plexus of ovine heart: anatomic basis for experimental cardiac electrophysiology and nerve protective cardiac surgery. *Heart Rhythm*, **2010**, 7, 942-50	6.7	49
185	A null mutation of the neuronal sodium channel NaV1.6 disrupts action potential propagation and excitation-contraction coupling in the mouse heart. *FASEB Journal*, **2012**, 26, 63-72	0.9	49
184	CrossTalk proposal: Rotors have been demonstrated to drive human atrial fibrillation. *Journal of Physiology*, **2014**, 592, 3163-6	3.9	48
183	Scn1b deletion leads to increased tetrodotoxin-sensitive sodium current, altered intracellular calcium homeostasis and arrhythmias in murine hearts. *Journal of Physiology*, **2015**, 593, 1389-407	3.9	47
182	AV nodal function during atrial fibrillation: the role of electrotonic modulation of propagation. *Journal of Cardiovascular Electrophysiology*, **1996**, 7, 843-61	2.7	47
181	Anchoring of vortex filaments in 3D excitable media. *Physica D: Nonlinear Phenomena*, **1994**, 72, 119-134	3.3	47
180	Left atrial pressure and dominant frequency of atrial fibrillation in humans. *Heart Rhythm*, **2011**, 8, 181-7	6.7	46
179	Specific residues of the cytoplasmic domains of cardiac inward rectifier potassium channels are effective antifibrillatory targets. *FASEB Journal*, **2010**, 24, 4302-12	0.9	46
178	Topological constraint on scroll wave pinning. *Physical Review Letters*, **2000**, 84, 2738-41	7.4	46
177	Pacemaker annihilation: diagnostic and therapeutic implications. *American Heart Journal*, **1980**, 100, 128-30	4.9	46
176	Minimum Information about a Cardiac Electrophysiology Experiment (MICEE): standardised reporting for model reproducibility, interoperability, and data sharing. *Progress in Biophysics and Molecular Biology*, **2011**, 107, 4-10	4.7	45
175	Complement dependency of cardiomyocyte release of mediators during sepsis. *FASEB Journal*, **2011**, 25, 2500-8	0.9	45

174	Action potential characteristics and arrhythmogenic properties of the cardiac conduction system of the murine heart. *Circulation Research*, **2001**, 89, 329-35	15.7	45
173	Cardiac Kir2.1 and Na1.5 Channels Traffic Together to the Sarcolemma to Control Excitability. *Circulation Research*, **2018**, 122, 1501-1516	15.7	44
172	Action potential duration restitution portraits of mammalian ventricular myocytes: role of calcium current. *Biophysical Journal*, **2006**, 91, 2735-45	2.9	44
171	Nav1.5 N-terminal domain binding to α1-syntrophin increases membrane density of human Kir2.1, Kir2.2 and Nav1.5 channels. *Cardiovascular Research*, **2016**, 110, 279-90	9.9	43
170	Heterogeneity of ryanodine receptor dysfunction in a mouse model of catecholaminergic polymorphic ventricular tachycardia. *Circulation Research*, **2013**, 112, 298-308	15.7	42
169	Morphologic pattern of the intrinsic ganglionated nerve plexus in mouse heart. *Heart Rhythm*, **2011** , 8, 448-54	6.7	42
168	Eikonal Relation in Highly Dispersive Excitable Media. *Physical Review Letters*, **1997**, 78, 2656-2659	7.4	42
167	Technical features of a CCD video camera system to record cardiac fluorescence data. *Annals of Biomedical Engineering*, **1997**, 25, 713-25	4.7	42
166	A major role for HERG in determining frequency of reentry in neonatal rat ventricular myocyte monolayer. *Circulation Research*, **2010**, 107, 1503-11	15.7	41
165	Structural bases for the different anti-fibrillatory effects of chloroquine and quinidine. *Cardiovascular Research*, **2011**, 89, 862-9	9.9	41
164	hiPSC-CM Monolayer Maturation State Determines Drug Responsiveness in High Throughput Pro-Arrhythmia Screen. *Scientific Reports*, **2017**, 7, 13834	4.9	40
163	Universal scaling law of electrical turbulence in the mammalian heart. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 20985-9	11.5	39
162	Three distinct phases of VF during global ischemia in the isolated blood-perfused pig heart. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 293, H1617-28	5.2	39
161	Mechanisms and Drug Development in Atrial Fibrillation. *Pharmacological Reviews*, **2018**, 70, 505-525	22.5	38
160	A computational model of induced pluripotent stem-cell derived cardiomyocytes incorporating experimental variability from multiple data sources. *Journal of Physiology*, **2019**, 597, 4533-4564	3.9	38
159	Nerves projecting from the intrinsic cardiac ganglia of the pulmonary veins modulate sinoatrial node pacemaker function. *Cardiovascular Research*, **2013**, 99, 566-75	9.9	37
158	Effect of remodelling, stretch and ischaemia on ventricular fibrillation frequency and dynamics in a heart failure model. *Cardiovascular Research*, **2005**, 65, 158-66	9.9	37
157	Complement Destabilizes Cardiomyocyte Function In Vivo after Polymicrobial Sepsis and In Vitro. *Journal of Immunology*, **2016**, 197, 2353-61	5.3	35

156	Inhibition of platelet-derived growth factor-AB signaling prevents electromechanical remodeling of adult atrial myocytes that contact myofibroblasts. *Heart Rhythm*, **2013**, 10, 1044-51	6.7	35
155	RXP-E: a connexin43-binding peptide that prevents action potential propagation block. *Circulation Research*, **2008**, 103, 519-26	15.7	35
154	The sucrose gap preparation as a model of AV nodal transmission: are dual pathways necessary for reciprocation and AV nodal "echoes"?. *PACE - Pacing and Clinical Electrophysiology*, **1983**, 6, 1106-22	1.6	35
153	Protein assemblies of sodium and inward rectifier potassium channels control cardiac excitability and arrhythmogenesis. *American Journal of Physiology - Heart and Circulatory Physiology*, **2015**, 308, H1463-73	5.2	34
152	Cardiac electrical defects in progeroid mice and Hutchinson-Gilford progeria syndrome patients with nuclear lamina alterations. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E7250-E7259	11.5	34
151	Structural heterogeneity promotes triggered activity, reflection and arrhythmogenesis in cardiomyocyte monolayers. *Journal of Physiology*, **2011**, 589, 2363-81	3.9	34
150	Molecular mechanisms and global dynamics of fibrillation: an integrative approach to the underlying basis of vortex-like reentry. *Journal of Theoretical Biology*, **2004**, 230, 475-87	2.3	34
149	The ionic bases of the action potential in isolated mouse cardiac Purkinje cell. *Heart Rhythm*, **2013**, 10, 80-7	6.7	33
148	Chloroquine terminates stretch-induced atrial fibrillation more effectively than flecainide in the sheep heart. *Circulation: Arrhythmia and Electrophysiology*, **2012**, 5, 561-70	6.4	33
147	Neuroanatomy of the murine cardiac conduction system: a combined stereomicroscopic and fluorescence immunohistochemical study. *Autonomic Neuroscience: Basic and Clinical*, **2013**, 176, 32-47	2.4	32
146	Electrical turbulence as a result of the critical curvature for propagation in cardiac tissue. *Chaos*, **1998**, 8, 116-126	3.3	31
145	Eplerenone Reduces Atrial Fibrillation Burden Without Preventing Atrial Electrical Remodeling. *Journal of the American College of Cardiology*, **2017**, 70, 2893-2905	15.1	30
144	Spiral drift and core properties. *Physical Review E*, **1999**, 59, 5192-204	2.4	30
143	Vortices with linear cores in excitable media. *Proceedings of the Royal Society A*, **1992**, 437, 645-655		30
142	Mechanistic Approaches to Detect, Target, and Ablate the Drivers of Atrial Fibrillation. *Circulation: Arrhythmia and Electrophysiology*, **2016**, 9, e002481	6.4	29
141	Targeting atrioventricular differences in ion channel properties for terminating acute atrial fibrillation in pigs. *Cardiovascular Research*, **2011**, 89, 843-51	9.9	29
140	Temporal organization of atrial activity and irregular ventricular rhythm during spontaneous atrial fibrillation: an in vivo study in the horse. *Journal of Cardiovascular Electrophysiology*, **2000**, 11, 773-84	2.7	29
139	Time- and frequency-domain analyses of atrial fibrillation activation rate: the optical mapping reference. *Heart Rhythm*, **2011**, 8, 1758-65	6.7	28

138	Reentry and atrial fibrillation. *Heart Rhythm*, **2007**, 4, S13-6	6.7	28
137	Immunohistochemical localization of gap junction protein channels in hamster sinoatrial node in correlation with electrophysiologic mapping of the pacemaker region. *Journal of Cardiovascular Electrophysiology*, **1994**, 5, 125-37	2.7	28
136	Experimental and clinical AF mechanisms: bridging the divide. *Journal of Interventional Cardiac Electrophysiology*, **2003**, 9, 85-92	2.4	27
135	Letter by Jalife et al Regarding Article, "Quantitative Analysis of Localized Sources Identified by Focal Impulse and Rotor Modulation Mapping in Atrial Fibrillation". *Circulation: Arrhythmia and Electrophysiology*, **2015**, 8, 1296-8	6.4	26
134	Left-to-right ventricular differences in I(KATP) underlie epicardial repolarization gradient during global ischemia. *Heart Rhythm*, **2011**, 8, 1732-9	6.7	26
133	Shaping of a scroll wave filament by cardiac fibers. *Physical Review E*, **2001**, 63, 061901	2.4	26
132	Dantrolene sodium: effects on isolated cardiac tissues. *Journal of Molecular and Cellular Cardiology*, **1983**, 15, 233-43	5.8	26
131	Mutated KCNJ5 activates the acute and chronic regulatory steps in aldosterone production. *Journal of Molecular Endocrinology*, **2016**, 57, 1-11	4.5	26
130	Deficient cMyBP-C protein expression during cardiomyocyte differentiation underlies human hypertrophic cardiomyopathy cellular phenotypes in disease specific human ES cell derived cardiomyocytes. *Journal of Molecular and Cellular Cardiology*, **2016**, 99, 197-206	5.8	25
129	Factors affecting basket catheter detection of real and phantom rotors in the atria: A computational study. *PLoS Computational Biology*, **2018**, 14, e1006017	5	25
128	Regional cooling facilitates termination of spiral-wave reentry through unpinning of rotors in rabbit hearts. *Heart Rhythm*, **2012**, 9, 107-14	6.7	25
127	Complex fractionated atrial electrograms: properties of time-domain versus frequency-domain methods. *Heart Rhythm*, **2009**, 6, 1475-82	6.7	24
126	Spatial gradients in action potential duration created by regional magnetofection of hERG are a substrate for wavebreak and turbulent propagation in cardiomyocyte monolayers. *Journal of Physiology*, **2012**, 590, 6363-79	3.9	23
125	Characterization of conduction in the ventricles of normal and heterozygous Cx43 knockout mice using optical mapping. *Journal of Cardiovascular Electrophysiology*, **2000**, 11, 375-7	2.7	23
124	Tbx20 controls the expression of the KCNH2 gene and of hERG channels. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E416-E425	11.5	22
123	Mechanisms underlying the antifibrillatory action of hyperkalemia in Guinea pig hearts. *Biophysical Journal*, **2010**, 98, 2091-101	2.9	22
122	Inward rectifier potassium channels control rotor frequency in ventricular fibrillation. *Heart Rhythm* , **2009**, 6, S44-8	6.7	22
121	Standing excitation waves in the heart induced by strong alternating electric fields. *Physical Review Letters*, **2001**, 87, 168104	7.4	21

120	Scn2b Deletion in Mice Results in Ventricular and Atrial Arrhythmias. *Circulation: Arrhythmia and Electrophysiology*, **2016**, 9,	6.4	21
119	High-rate pacing-induced atrial fibrillation effectively reveals properties of spontaneously occurring paroxysmal atrial fibrillation in humans. *Europace*, **2012**, 14, 1560-6	3.9	20
118	Endoscopic fluorescence mapping of the left atrium: a novel experimental approach for high resolution endocardial mapping in the intact heart. *Heart Rhythm*, **2007**, 4, 916-24	6.7	20
117	Translational research in atrial fibrillation: a quest for mechanistically based diagnosis and therapy. *Circulation: Arrhythmia and Electrophysiology*, **2012**, 5, 1207-15	6.4	19
116	Mechanisms of atrial fibrillation: rotors, ionic determinants, and excitation frequency. *Cardiology Clinics*, **2014**, 32, 495-506	2.5	18
115	Brugada syndrome trafficking-defective Nav1.5 channels can trap cardiac Kir2.1/2.2 channels. *JCI Insight*, **2018**, 3,	9.9	18
114	Constitutive Intracellular Na+ Excess in Purkinje Cells Promotes Arrhythmogenesis at Lower Levels of Stress Than Ventricular Myocytes From Mice With Catecholaminergic Polymorphic Ventricular Tachycardia. *Circulation*, **2016**, 133, 2348-59	16.7	18
113	A device for rapid and quantitative measurement of cardiac myocyte contractility. *Review of Scientific Instruments*, **2015**, 86, 034302	1.7	17
112	Ionic mechanisms of wavebreak in fibrillation. *Heart Rhythm*, **2005**, 2, 660-3	6.7	17
111	Aging and atrial fibrillation research: where we are and where we should go. *Heart Rhythm*, **2007**, 4, 186-8	6.7	16
110	Genetically engineered excitable cardiac myofibroblasts coupled to cardiomyocytes rescue normal propagation and reduce arrhythmia complexity in heterocellular monolayers. *PLoS ONE*, **2013**, 8, e55400	3.7	15
109	New approaches to antiarrhythmic therapy; emerging therapeutic applications of the cell biology of cardiac arrhythmias. *European Heart Journal*, **2001**, 22, 2148-63	9.5	14
108	Reentry in an accessory atrioventricular pathway as a trigger for atrial fibrillation initiation in manifest Wolff-Parkinson-White syndrome: a matter of reflection?. *Heart Rhythm*, **2008**, 5, 1238-47	6.7	13
107	Atrial Fibrillation Susceptibility in Obesity: An Excess Adiposity and Fibrosis Complicity?. *Circulation Research*, **2016**, 118, 1468-1471	15.7	13
106	Clinical Characteristics and Electrophysiological Mechanisms Underlying Brugada ECG in Patients With Severe Hyperkalemia. *Journal of the American Heart Association*, **2019**, 8, e010115	6	12
105	Toward an understanding of the molecular mechanisms of ventricular fibrillation. *Journal of Interventional Cardiac Electrophysiology*, **2003**, 9, 119-29	2.4	12
104	Spatial Doppler anomaly in an excitable medium. *Physical Review E*, **1996**, 54, 1120-1125	2.4	12
103	Structural basis for the antiarrhythmic blockade of a potassium channel with a small molecule. *FASEB Journal*, **2018**, 32, 1778-1793	0.9	12

102	High-resolution endocardial and epicardial optical mapping in a sheep model of stretch-induced atrial fibrillation. *Journal of Visualized Experiments*, **2011**,	1.6	11
101	Mammalian enabled (Mena) is a critical regulator of cardiac function. *American Journal of Physiology - Heart and Circulatory Physiology*, **2011**, 300, H1841-52	5.2	11
100	Ventricular fibrillation: dynamics and ion channel determinants. *Circulation Journal*, **2007**, 71 Suppl A, A1-11	2.9	11
99	Atrioventricular conduction in mammalian species: hemodynamic and electrical scaling. *Heart Rhythm*, **2005**, 2, 188-96	6.7	11
98	Electrotonic inhibition and active facilitation of excitability in ventricular muscle. *Journal of Cardiovascular Electrophysiology*, **1994**, 5, 945-60	2.7	11
97	Pulmonary vein triggers, focal sources, rotors and atrial cardiomyopathy: implications for the choice of the most effective ablation therapy. *Journal of Internal Medicine*, **2016**, 279, 449-56	10.8	11
96	Human influenza A virus causes myocardial and cardiac-specific conduction system infections associated with early inflammation and premature death. *Cardiovascular Research*, **2021**, 117, 876-889	9.9	11
95	Mechanisms of Atrial Fibrillation: Rotors, Ionic Determinants, and Excitation Frequency. *Heart Failure Clinics*, **2016**, 12, 167-78	3.3	10
94	Instantaneous Amplitude and Frequency Modulations Detect the Footprint of Rotational Activity and Reveal Stable Driver Regions as Targets for Persistent Atrial Fibrillation Ablation. *Circulation Research*, **2019**, 125, 609-627	15.7	10
93	Radiofrequency catheter ablation of pulmonary vein roots results in axonal degeneration of distal epicardial nerves. *Autonomic Neuroscience: Basic and Clinical*, **2012**, 167, 61-5	2.4	10
92	Rebuttal from Sanjiv M. Narayan and Jos□alife. *Journal of Physiology*, **2014**, 592, 3171	3.9	9
91	Spatial and temporal organization in ventricular fibrillation. *Trends in Cardiovascular Medicine*, **1999**, 9, 119-27	6.9	9
90	Dynamics of synchronization in the sinoatrial node. *Annals of the New York Academy of Sciences*, **1990**, 591, 154-65	6.5	9
89	Ventricular tachycardia with alternating cycle lengths: self-entrainment of parasystolic rhythm?. *PACE - Pacing and Clinical Electrophysiology*, **1988**, 11, 1291-5	1.6	9
88	STRUCTURAL AND FUNCTIONAL BASES OF CARDIAC FIBRILLATION. DIFFERENCES AND SIMILARITIES BETWEEN ATRIA AND VENTRICLES. *JACC: Clinical Electrophysiology*, **2016**, 2, 1-3	4.6	8
87	Mechanisms by Which Ranolazine Terminates Paroxysmal but Not Persistent Atrial Fibrillation. *Circulation: Arrhythmia and Electrophysiology*, **2019**, 12, e005557	6.4	8
86	Irregular dynamics of excitation in biologic and mathematical models of cardiac cells. *Annals of the New York Academy of Sciences*, **1990**, 601, 281-98	6.5	8
85	Frequency-Dependent Alterations of Conduction in Purkinje Fibers. *Developments in Cardiovascular Medicine*, **1983**, 397-415		8

84	Personalized monitoring of electrical remodelling during atrial fibrillation progression via remote transmissions from implantable devices. *Europace*, **2020**, 22, 704-715	3.9	8
83	Ventricular Tachycardia and Early Fibrillation in Patients With Brugada Syndrome and Ischemic Cardiomyopathy Show Predictable Frequency-Phase Properties on the Precordial ECG Consistent With the Respective Arrhythmogenic Substrate. *Circulation: Arrhythmia and Electrophysiology*, **2015**, 8, 1133-43	6.4	7
82	Dynamics and Molecular Mechanisms of Ventricular Fibrillation in Structurally Normal Hearts. *Cardiac Electrophysiology Clinics*, **2016**, 8, 601-12	1.4	7
81	Modulated parasystole as a mechanism of ventricular ectopic activity leading to ventricular fibrillation. *American Journal of Cardiology*, **1989**, 63, 1326-32	3	7
80	Spatiotemporal irregularities of spiral wave activity in isolated ventricular muscle. *Journal of Electrocardiology*, **1992**, 24 Suppl, 113-22	1.4	7
79	An appraisal of efficacy in the treatment of ventricular premature beats. *Life Sciences*, **1978**, 22, UNKNOWN	6.8	7
78	Entrainment of the SA Nodal Pacemaker by Brief Vagal Bursts in Relation to AV Conduction. *Developments in Cardiovascular Medicine*, **1982**, 577-603		7
77	Kir2.1 Interactome Mapping Uncovers PKP4 as a Modulator of the Kir2.1-Regulated Inward Rectifier Potassium Currents. *Molecular and Cellular Proteomics*, **2020**, 19, 1436-1449	7.6	7
76	Spectral analysis-based risk score enables early prediction of mortality and cerebral performance in patients undergoing therapeutic hypothermia for ventricular fibrillation and comatose status. *International Journal of Cardiology*, **2015**, 186, 250-8	3.2	6
75	Novel upstream approaches to prevent atrial fibrillation perpetuation. *Cardiology Clinics*, **2014**, 32, 637-50	2.5	6
74	Pathophysiology of atrial fibrillation: From initiation to maintenance. *Journal of Arrhythmia*, **2012**, 28, 129-139	1.5	6
73	Three-dimensional cardiac fibre disorganization as a novel parameter for ventricular arrhythmia stratification after myocardial infarction. *Europace*, **2019**, 21, 822-832	3.9	6
72	Implications of bipolar voltage mapping and magnetic resonance imaging resolution in biventricular scar characterization after myocardial infarction. *Europace*, **2019**, 21, 163-174	3.9	6
71	Lesion Index Titration Using Contact-Force Technology Enables Safe and Effective Radiofrequency Lesion Creation at the Root of the Aorta and Pulmonary Artery. *Circulation: Arrhythmia and Electrophysiology*, **2019**, 12, e007080	6.4	5
70	Novel Upstream Approaches to Prevent Atrial Fibrillation Perpetuation. *Heart Failure Clinics*, **2016**, 12, 309-22	3.3	5
69	The tornadoes of sudden cardiac arrest. *Nature*, **2018**, 555, 597-598	50.4	5
68	1/f Power spectral density of the cardiac QRS complex is not associated with a fractal Purkinje system. *Biophysical Journal*, **1991**, 60, 1303-5	2.9	5
67	The p.P888L SAP97 polymorphism increases the transient outward current (I) and abbreviates the action potential duration and the QT interval. *Scientific Reports*, **2020**, 10, 10707	4.9	5

66	Spectral analysis of electrograms in a substrate modified by radiofrequency ablation reveals similarities between organized and disorganized atrial rhythms. *Heart Rhythm*, **2014**, 11, 2306-9	6.7	4
65	Guidance for the Heart Rhythm Society pertaining to interactions with industry endorsed by the Heart Rhythm Society on April 26, 2011. *Heart Rhythm*, **2011**, 8, e19-23	6.7	4
64	A single-cell model of phase-driven control of ventricular fibrillation frequency. *Biophysical Journal*, **2009**, 96, 2961-76	2.9	4
63	Swapping connexin genes: how big is the gap?. *Circulation Research*, **2004**, 94, 4-6	15.7	4
62	Measurements of curvature in an ionic model of cardiac tissu. *Chaos, Solitons and Fractals*, **1995**, 5, 481-489	5.3	4
61	Executive Summary: Pivotal Research in Cardiovascular Syndromes in the Elderly. *The American Journal of Geriatric Cardiology*, **2000**, 9, 243-250		4
60	Models of Parasystole and Reflection. *Developments in Cardiovascular Medicine*, **1983**, 217-238		4
59	Genome-wide association study of 1 million people identifies 111 loci for atrial fibrillation		4
58	Introduction to the series on Computational Approaches to Cardiac Arrhythmias: Translation Into Diagnostics and Therapy. *Circulation Research*, **2013**, 112, 831-3	15.7	3
57	Letter by Berenfeld and Jalife regarding article "dominant frequency of atrial fibrillation correlates poorly with atrial fibrillation cycle length". *Circulation: Arrhythmia and Electrophysiology*, **2010**, 3, e1; author reply e2-3	6.4	3
56	Paclitaxel mitigates structural alterations and cardiac conduction system defects in a mouse model of Hutchinson-Gilford progeria syndrome. *Cardiovascular Research*, **2021**,	9.9	3
55	Cardiac phenotype in familial partial lipodystrophy. *Clinical Endocrinology*, **2021**, 94, 1043-1053	3.4	3
54	Retroalimentaci□n mecanoel□ctrica del miocardio isqu□mico: un juego que modula su capacidad fibrilatoria. *Revista Espanola De Cardiologia*, **2013**, 66, 168-170	1.5	2
53	Calcium-induced calcium release mechanism contributes to disorganization of VF dynamics during evolving global ischemia. *Heart Rhythm*, **2005**, 2, S72	6.7	2
52	WAVES IN EXCITABLE MEDIA: EFFECTS OF WAVE GEOMETRY. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2002**, 12, 1939-1951	2	2
51	Analysis of rate-dependent activation in single atrioventricular nodal cells. *Annals of the New York Academy of Sciences*, **1990**, 591, 23-37	6.5	2
50	Transcriptome and proteome mapping in the sheep atria reveal molecular featurets of atrial fibrillation progression. *Cardiovascular Research*, **2021**, 117, 1760-1775	9.9	2
49	Anatomical targets and expected outcomes of catheter-based ablation of atrial fibrillation in 2020. *PACE - Pacing and Clinical Electrophysiology*, **2021**, 44, 341-359	1.6	2

48	Tbx5 variants disrupt Nav1.5 function differently in patients diagnosed with Brugada or Long QT Syndrome. *Cardiovascular Research*, **2021**,	9.9	2
47	Impulse Initiation and Propagation in Cardiac Muscle92-120		2
46	Rotors, Spirals, and Scroll Waves in the Heart191-223		2
45	Causality analysis of leading singular value decomposition modes identifies rotor as the dominant driving normal mode in fibrillation. *Chaos*, **2018**, 28, 013128	3.3	1
44	Are multi-electrode arrays able to differentiate anatomical from functional reentries in an excitable sheet? **2015**,		1
43	Reciprocity of Cardiac Sodium and Potassium Channels in the Control of Excitability and Arrhythmias **2014**, 205-214		1
42	Action potential alternans in LQT3 syndrome: a simulation study. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2007**, 2007, 640-3		1
41	Corrientes i□icas y din□mica de la fibrilaci□ ventricular. *Revista Espanola De Cardiologia*, **2004**, 57, 69-79	1.5	1
40	Report of the NASPE/NHLBI Round Table on Future Research Directions in Atrial Fibrillation. North American Society of Pacing and Electrophysiology. *Journal of Interventional Cardiac Electrophysiology*, **2001**, 5, 345-64	2.4	1
39	Is the "funny" current funnier than we thought?. *Journal of Cardiovascular Electrophysiology*, **1994**, 5, 394-6	2.7	1
38	Video imaging of cardiac transmembrane activity **1994**, 2132, 357		1
37	Overexpression of the inward rectifier K+ current (IK1) accelerates and stabilizes rotors. *FASEB Journal*, **2007**, 21, A1157	0.9	1
36	Dominant Frequency Mapping to Assess the Consequences of Remodeling in the Mechanism of Atrial Fibrillation **2008**, 77-100		1
35	Dynamics and Molecular Mechanisms of Ventricular Fibrillation in Normal Hearts **2004**, 390-398		1
34	Novel approaches to mechanism-based atrial fibrillation ablation. *Cardiovascular Research*, **2021**, 117, 1662-1681	9.9	1
33	Inheritable Arrhythmogenic Diseases276-315		1
32	Ion Channel Regulation72-91		1
31	Basic Mechanisms of Cardiac Arrhythmias152-190		1

30	Ionic Basis of the Wenckebach Phenomenon. *Institute for Nonlinear Science*, **1991**, 359-376		1
29	Postrepolarization refractoriness in acute ischemia and after antiarrhythmic drug administration. *Heart Rhythm*, **2012**, 9, e13-4; author reply e14	6.7	0
28	Ionic Currents and Ventricular Fibrillation Dynamics. *Revista Espanola De Cardiologia (English Ed)*, **2004**, 57, 69-79	0.7	0
27	Panoramic Endocardial Optical Mapping Demonstrates Serial Rotors Acceleration and Increasing Complexity of Activity During Onset of Cholinergic Atrial Fibrillation. *Journal of the American Heart Association*, **2021**, 10, e022300	6	0
26	Mapping Technologies for Catheter Ablation of Atrial Fibrillation Beyond Pulmonary Vein Isolation. *European Cardiology Review*, **2021**, 16, e21	3.9	0
25	Time-efficient three-dimensional transmural scar assessment provides relevant substrate characterization for ventricular tachycardia features and long-term recurrences in ischemic cardiomyopathy. *Scientific Reports*, **2021**, 11, 18722	4.9	0
24	Myofibroblasts, Cytokines, and Persistent Atrial Fibrillation **2018**, 409-418		
23	Reciprocity of Cardiac Sodium and Potassium Channels in the Control of Excitability and Arrhythmias **2018**, 187-197		
22	Selection of the Best of 2016 in Catheter Ablation. *Revista Espanola De Cardiologia (English Ed)*, **2017**, 70, 302-303	0.7	
21	Iatrogenic atrioventricular reentrant tachycardia following Bjork/Fontan palliation of tricuspid atresia: Electro-anatomic mapping, ablation, review and possible mechanism. *Journal of Cardiology Cases*, **2012**, 6, e66-e69	0.6	
20	Mechanisms Underlying Atrial Fibrillation. *Cardiac Electrophysiology Clinics*, **2011**, 3, 141-156	1.4	
19	Pathophysiology of atrial fibrillation **2011**, 20-34		
18	Ventricular Fibrillation: A Historical Perspective **2009**, 41-59		
17	Mechanisms of Atrial Fibrillation in Animals and Humans **2009**, 61-74		
16	Analytical modeling of the hysteresis phenomenon in guinea pig ventricular myocytes. *Acta Biotheoretica*, **1992**, 40, 177-93	1.1	
15	Teacher and Scientist. *Journal of Cardiovascular Electrophysiology*, **1990**, 1, 278-292	2.7	
14	Optical Mapping of Arrhythmias. *Developments in Cardiovascular Medicine*, **2000**, 45-60		
13	Ionic Channels and Fibrillation. *Basic Science for the Cardiologist*, **2002**, 335-359		

12	Rotors and turbulence in ventricular fibrillation: Roles of two different potassium channels. *Japanese Journal of Electrocardiology*, **2007**, 27, 400-401	0
11	Nonlinear Dynamics and Ionic Mechanisms of Excitation Patterns in Models of the Cardiac Myocyte. *NATO ASI Series Series B: Physics*, **1991**, 295-312	
10	Low Dimensional Chaos and the Transition from Rhythmic to Arrhythmic Behavior in Cardiac Tissue. *Developments in Cardiovascular Medicine*, **1991**, 115-123	
9	Evaluation of cardiovascular health in sarcoma survivors.. *Journal of Clinical Oncology*, **2017**, 35, e21579-e21579	2.2
8	Generating a Large Animal Model of Persistent Atrial Fibrillation20-31	
7	Myofibroblasts, Cytokines, and Persistent Atrial Fibrillation **2014**, 459-467	
6	Reply: The Role of Pro-Fibrotic Biomarkers in Atrial Fibrillation: How Good Are We in the Translational Interpretation?. *JACC Basic To Translational Science*, **2016**, 1, 552-553	8.7
5	-176-DECREMENTAL MODE OF ELECTROTONIC POTENTIAL IN THE BEATING RABBIT SINUS NODE STRIP AS MEASURES OF ELECTRICAL COUPLING. *Japanese Circulation Journal*, **1986**, 50, 511	
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