Dario DiFrancesco

List of Publications by Year in Descending Order

169 papers	13,003 citations	60 h-index	111 g-index
182 ext. papers	14,281 ext. citations	7.2 avg, IF	6.59 L-index

#	Paper	IF	Citations
169	Discovery of Herbacetin as a Novel SGK1 Inhibitor to Alleviate Myocardial Hypertrophy (Adv. Sci. 2/2022). *Advanced Science*, **2022**, 9, 2270009	13.6	
168	Gating movements and ion permeation in HCN4 pacemaker channels. *Molecular Cell*, **2021**, 81, 2929-2943.e6	17.6	8
167	A circadian clock in the sinus node mediates day-night rhythms in Hcn4 and heart rate. *Heart Rhythm*, **2021**, 18, 801-810	6.7	16
166	Human iPSC modelling of a familial form of atrial fibrillation reveals a gain of function of If and ICaL in patient-derived cardiomyocytes. *Cardiovascular Research*, **2020**, 116, 1147-1160	9.9	27
165	HCN ion channels and accessory proteins in epilepsy: genetic analysis of a large cohort of patients and review of the literature. *Epilepsy Research*, **2019**, 153, 49-58	3	15
164	A Brief History of Pacemaking. *Frontiers in Physiology*, **2019**, 10, 1599	4.6	14
163	Comparing pathways for long-term heart rate modulation by the funny current. *Journal of General Physiology*, **2019**, 151, 1066-1069	3.4	2
162	Generation of human induced pluripotent stem cells (EURACi001-A, EURACi002-A, EURACi003-A) from peripheral blood mononuclear cells of three patients carrying mutations in the CAV3 gene. *Stem Cell Research*, **2018**, 27, 25-29	1.6	3
161	A Loss-of-Function Mutation Associated With Familial Benign Myoclonic Epilepsy in Infancy Causes Increased Neuronal Excitability. *Frontiers in Molecular Neuroscience*, **2018**, 11, 269	6.1	15
160	HCN1 mutation spectrum: from neonatal epileptic encephalopathy to benign generalized epilepsy and beyond. *Brain*, **2018**, 141, 3160-3178	11.2	48
159	HCN Channels and Cardiac Pacemaking. *Cardiac and Vascular Biology*, **2018**, 97-126	0.2	1
158	A synthetic peptide that prevents cAMP regulation in mammalian hyperpolarization-activated cyclic nucleotide-gated (HCN) channels. *ELife*, **2018**, 7,	8.9	29
157	A novel de novo HCN1 loss-of-function mutation in genetic generalized epilepsy causing increased neuronal excitability. *Neurobiology of Disease*, **2018**, 118, 55-63	7.5	26
156	A gain-of-function mutation in the cardiac pacemaker HCN4 channel increasing cAMP sensitivity is associated with familial Inappropriate Sinus Tachycardia. *European Heart Journal*, **2017**, 38, 280-288	9.5	54
155	The expression of the rare caveolin-3 variant T78M alters cardiac ion channels function and membrane excitability. *Cardiovascular Research*, **2017**, 113, 1256-1265	9.9	13
154	Mammalian ⍺2 AMPK regulates intrinsic heart rate. *Nature Communications*, **2017**, 8, 1258	17.4	24
153	Mutation in S6 domain of HCN4 channel in patient with suspected Brugada syndrome modifies channel function. *Pflugers Archiv European Journal of Physiology*, **2016**, 468, 1663-71	4.6	16

152	Current understanding of the pathophysiological mechanisms responsible for inappropriate sinus tachycardia: role of the If "funny" current. *Journal of Interventional Cardiac Electrophysiology*, **2016**, 46, 19-28	2.4	19
151	Anacardic acid and thyroid hormone enhance cardiomyocytes production from undifferentiated mouse ES cells along functionally distinct pathways. *Endocrine*, **2016**, 53, 681-8	4	4
150	Cell-specific Dynamic Clamp analysis of the role of funny If current in cardiac pacemaking. *Progress in Biophysics and Molecular Biology*, **2016**, 120, 50-66	4.7	13
149	Higher cardiogenic potential of iPSCs derived from cardiac versus skin stromal cells. *Frontiers in Bioscience - Landmark*, **2016**, 21, 719-43	2.8	8
148	How integrated are neurology and palliative care services? Results of a multicentre mapping exercise. *BMC Neurology*, **2016**, 16, 63	3.1	33
147	Dysfunctional HCN ion channels in neurological diseases. *Frontiers in Cellular Neuroscience*, **2015**, 6, 174	6.1	67
146	HCN4, Sinus Bradycardia and Atrial Fibrillation. *Arrhythmia and Electrophysiology Review*, **2015**, 4, 9-13	3.2	25
145	Cyclic dinucleotides bind the C-linker of HCN4 to control channel cAMP responsiveness. *Nature Chemical Biology*, **2014**, 10, 457-62	11.7	40
144	The 'funny' side of sepsis. *Journal of Physiology*, **2014**, 592, 1171	3.9	2
143	Exercise training reduces resting heart rate via downregulation of the funny channel HCN4. *Nature Communications*, **2014**, 5, 3775	17.4	148
142	LEONARDO DA VINCI AND THE ORIGIN OF SEMEN. *Notes and Records of the Royal Society*, **2014**, 68, 391-402	0.4	1
141	Embryonic stem cell-derived CD166+ precursors develop into fully functional sinoatrial-like cells. *Circulation Research*, **2013**, 113, 389-98	15.7	44
140	Multifactorial impact of channel beta-subunit gene mutation on automaticity. *Journal of Cardiovascular Electrophysiology*, **2013**, 24, E26-7	2.7	
139	An LQTS6 MiRP1 mutation suppresses pacemaker current and is associated with sinus bradycardia. *Journal of Cardiovascular Electrophysiology*, **2013**, 24, 1021-7	2.7	28
138	Funny channel gene mutations associated with arrhythmias. *Journal of Physiology*, **2013**, 591, 4117-24	3.9	34
137	Identification of the molecular site of ivabradine binding to HCN4 channels. *PLoS ONE*, **2013**, 8, e53132	3.7	38
136	An updated computational model of rabbit sinoatrial action potential to investigate the mechanisms of heart rate modulation. *Journal of Physiology*, **2012**, 590, 4483-99	3.9	72
135	The funny current has a major pacemaking role in the sinus node. *Heart Rhythm*, **2012**, 9, 299-301	6.7	55

134	Rebuttal: "The funny current in the context of the coupled clock pacemaker cell system". *Heart Rhythm*, **2012**, 9, 457-8	6.7	14
133	A caveolin-binding domain in the HCN4 channels mediates functional interaction with caveolin proteins. *Journal of Molecular and Cellular Cardiology*, **2012**, 53, 187-95	5.8	35
132	In vitro epigenetic reprogramming of human cardiac mesenchymal stromal cells into functionally competent cardiovascular precursors. *PLoS ONE*, **2012**, 7, e51694	3.7	28
131	Funny Current and Cardiac Rhythm: Insights from HCN Knockout and Transgenic Mouse Models. *Frontiers in Physiology*, **2012**, 3, 240	4.6	36
130	The Funny Pacemaker Current **2011**, 59-81		
129	Multinucleated giant cells with an osteoclast phenotype derived from caprine peripheral blood mononuclear cells. *Veterinary Journal*, **2011**, 189, 361-3	2.5	3
128	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
127	Recessive loss-of-function mutation in the pacemaker HCN2 channel causing increased neuronal excitability in a patient with idiopathic generalized epilepsy. *Journal of Neuroscience*, **2011**, 31, 17327-37	6.6	69
126	Deep bradycardia and heart block caused by inducible cardiac-specific knockout of the pacemaker channel gene Hcn4. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 1705-10	11.5	188
125	Seeing climate change: the visual construction of global warming in Canadian national print media. *Cultural Geographies*, **2011**, 18, 517-536	0.9	92
124	Human cardiac and bone marrow stromal cells exhibit distinctive properties related to their origin. *Cardiovascular Research*, **2011**, 89, 650-60	9.9	96
123	Human cord blood CD34+ progenitor cells acquire functional cardiac properties through a cell fusion process. *American Journal of Physiology - Heart and Circulatory Physiology*, **2011**, 300, H1875-84	5.2	24
122	Funny channel-based pacemaking. *Heart Rhythm*, **2010**, 7, 276-9	6.7	8
121	Mesoangioblasts from ventricular vessels can differentiate in vitro into cardiac myocytes with sinoatrial-like properties. *Journal of Molecular and Cellular Cardiology*, **2010**, 48, 415-23	5.8	17
120	Considerations on the size of currents required for pacemaking. *Journal of Molecular and Cellular Cardiology*, **2010**, 48, 802-803	5.8	7
119	The role of the funny current in pacemaker activity. *Circulation Research*, **2010**, 106, 434-46	15.7	375
118	HCN-related channelopathies. *Pflugers Archiv European Journal of Physiology*, **2010**, 460, 405-15	4.6	63
117	The Funny Pacemaker Current **2009**, 59-99		1

116	Molecular architecture of the human sinus node: insights into the function of the cardiac pacemaker. *Circulation*, **2009**, 119, 1562-75	16.7	277
115	Gravity gradiometer systems advances and challenges. *Geophysical Prospecting*, **2009**, 57, 615-623	1.9	50
114	Molecular composition and functional properties of f-channels in murine embryonic stem cell-derived pacemaker cells. *Journal of Molecular and Cellular Cardiology*, **2009**, 46, 343-51	5.8	33
113	What keeps us ticking: a funny current, a calcium clock, or both?. *Journal of Molecular and Cellular Cardiology*, **2009**, 47, 157-70	5.8	215
112	Distribution of the pacemaker HCN4 channel mRNA and protein in the rabbit sinoatrial node. *Journal of Molecular and Cellular Cardiology*, **2009**, 47, 221-7	5.8	64
111	More seafood to control heart rate?. *Heart Rhythm*, **2009**, 6, 1493-4	6.7	
110	Cardiac mesoangioblasts are committed, self-renewable progenitors, associated with small vessels of juvenile mouse ventricle. *Cell Death and Differentiation*, **2008**, 15, 1417-28	12.7	87
109	Control of cardiac rate by "funny" channels in health and disease. *Annals of the New York Academy of Sciences*, **2008**, 1123, 213-23	6.5	40
108	The funny current: cellular basis for the control of heart rate. *Drugs*, **2007**, 67 Suppl 2, 15-24	12.1	110
107	The pacemaker current: from basics to the clinics. *Journal of Cardiovascular Electrophysiology*, **2007**, 18, 342-7	2.7	50
106	Localization of f-channels to caveolae mediates specific beta2-adrenergic receptor modulation of rate in sinoatrial myocytes. *Journal of Molecular and Cellular Cardiology*, **2007**, 42, 71-8	5.8	84
105	Modulation of rate by autonomic agonists in SAN cells involves changes in diastolic depolarization and the pacemaker current. *Journal of Molecular and Cellular Cardiology*, **2007**, 43, 39-48	5.8	64
104	Heart rate reduction via selective 'funny' channel blockers. *Current Opinion in Pharmacology*, **2007**, 7, 208-13	5.1	59
103	Serious workings of the funny current. *Progress in Biophysics and Molecular Biology*, **2006**, 90, 13-25	4.7	72
102	Familial sinus bradycardia associated with a mutation in the cardiac pacemaker channel. *New England Journal of Medicine*, **2006**, 354, 151-7	59.2	305
101	Funny channels in the control of cardiac rhythm and mode of action of selective blockers. *Pharmacological Research*, **2006**, 53, 399-406	10.2	147
100	Properties of ivabradine-induced block of HCN1 and HCN4 pacemaker channels. *Journal of Physiology*, **2006**, 572, 335-46	3.9	114
99	Physiology and pharmacology of the cardiac pacemaker ("funny") current **2005**, 107, 59-79		252

98	Letter regarding article by Michels et al, "Single-channel properties support a potential contribution of hyperpolarization-activated cyclic nucleotide-gated channels and If to cardiac arrhythmias". *Circulation*, **2005**, 112, e72; author reply e72-3	16.7	4
97	Cardiac pacemaker I(f) current and its inhibition by heart rate-reducing agents. *Current Medical Research and Opinion*, **2005**, 21, 1115-22	2.5	58
96	Interaction of the pacemaker channel HCN1 with filamin A. *Journal of Biological Chemistry*, **2004**, 279, 43847-53	5.4	79
95	Small potassium ion channel proteins encoded by chlorella viruses. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 5318-24	11.5	65
94	Localization of pacemaker channels in lipid rafts regulates channel kinetics. *Circulation Research*, **2004**, 94, 1325-31	15.7	114
93	Long distance interactions within the potassium channel pore are revealed by molecular diversity of viral proteins. *Journal of Biological Chemistry*, **2004**, 279, 28443-9	5.4	36
92	Pacemaker channels. *Annals of the New York Academy of Sciences*, **2004**, 1015, 111-21	6.5	60
91	Heart rate lowering by specific and selective I(f) current inhibition with ivabradine: a new therapeutic perspective in cardiovascular disease. *Drugs*, **2004**, 64, 1757-65	12.1	284
90	Pacemaker Channels and Normal Automaticity **2004**, 103-111		
89	If inhibition: a novel mechanism of action. *European Heart Journal Supplements*, **2003**, 5, G19-G25	1.5	12
88	Autonomic modulation of heart rate: pitfalls of nonselective channel blockade. *American Journal of Physiology - Heart and Circulatory Physiology*, **2003**, 285, H2865; author reply H2865	5.2	2
87	Heteromeric HCN1-HCN4 channels: a comparison with native pacemaker channels from the rabbit sinoatrial node. *Journal of Physiology*, **2003**, 549, 347-59	3.9	160
86	I(f)-dependent modulation of pacemaker rate mediated by cAMP in the presence of ryanodine in rabbit sino-atrial node cells. *Journal of Molecular and Cellular Cardiology*, **2003**, 35, 905-13	5.8	63
85	The viral potassium channel Kcv: structural and functional features. *FEBS Letters*, **2003**, 552, 12-6	3.8	42
84	From funny current to HCN channels: 20 years of excitation. *Physiology*, **2002**, 17, 32-7	9.8	74
83	Voltage-dependence of virus-encoded miniature K+ channel Kcv. *Journal of Membrane Biology*, **2002**, 187, 15-25	2.3	25
82	Functional characterisation and subcellular localisation of HCN1 channels in rabbit retinal rod photoreceptors. *Journal of Physiology*, **2002**, 542, 89-97	3.9	42
81	Functional comparison of HCN isoforms expressed in ventricular and HEK 293 cells. *Pflugers Archiv European Journal of Physiology*, **2002**, 444, 597-601	4.6	49

80	beta-modulation of pacemaker rate: novel mechanism or novel mechanics of an old one?. *Circulation Research*, **2002**, 90, E69-9	15.7	9
79	Current-dependent block of rabbit sino-atrial node I(f) channels by ivabradine. *Journal of General Physiology*, **2002**, 120, 1-13	3.4	230
78	The short N-terminus is required for functional expression of the virus-encoded miniature K(+) channel Kcv. *FEBS Letters*, **2002**, 530, 65-9	3.8	35
77	Single-channel properties of the sinoatrial node Na+ current in the newborn rabbit. *Pflugers Archiv European Journal of Physiology*, **2001**, 442, 192-6	4.6	10
76	Hyperpolarization-activated cyclic nucleotide-gated channel 1 is a molecular determinant of the cardiac pacemaker current I(f). *Journal of Biological Chemistry*, **2001**, 276, 29233-41	5.4	81
75	Integrated allosteric model of voltage gating of HCN channels. *Journal of General Physiology*, **2001**, 117, 519-32	3.4	127
74	C terminus-mediated control of voltage and cAMP gating of hyperpolarization-activated cyclic nucleotide-gated channels. *Journal of Biological Chemistry*, **2001**, 276, 29930-4	5.4	47
73	A comparison of gravimetric techniques for measuring subsurface void signals. *Journal Physics D: Applied Physics*, **2001**, 34, 433-443	3	23
72	L-type but not T-type calcium current changes during postnatal development in rabbit sinoatrial node. *American Journal of Physiology - Heart and Circulatory Physiology*, **2001**, 281, H1252-9	5.2	25
71	Effects of dronedarone on acetylcholine-activated current in rabbit SAN cells. *British Journal of Pharmacology*, **2000**, 130, 1315-20	8.6	34
70	Kinetic and ionic properties of the human HCN2 pacemaker channel. *Pflugers Archiv European Journal of Physiology*, **2000**, 439, 618-626	4.6	34
69	Na(+) current contribution to the diastolic depolarization in newborn rabbit SA node cells. *American Journal of Physiology - Heart and Circulatory Physiology*, **2000**, 279, H2303-9	5.2	36
68	Mutation in pore domain uncovers cation- and voltage-sensitive recovery from inactivation in KAT1 channel. *Biophysical Journal*, **2000**, 78, 1862-71	2.9	11
67	A potassium channel protein encoded by chlorella virus PBCV-1. *Science*, **2000**, 287, 1641-4	33.3	149
66	Kinetic and ionic properties of the human HCN2 pacemaker channel. *Pflugers Archiv European Journal of Physiology*, **2000**, 439, 618-26	4.6	38
65	Action of serotonin on the hyperpolarization-activated cation current (Ih) in rat CA1 hippocampal neurons. *European Journal of Neuroscience*, **1999**, 11, 3093-100	3.5	52
64	Action of internal pronase on the f-channel kinetics in the rabbit SA node. *Journal of Physiology*, **1999**, 520 Pt 3, 737-44	3.9	25
63	Dual allosteric modulation of pacemaker (f) channels by cAMP and voltage in rabbit SA node. *Journal of Physiology*, **1999**, 515 (Pt 2), 367-76	3.9	82

62	The human gene coding for HCN2, a pacemaker channel of the heart. *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **1999**, 1446, 419-25		51
61	Two distinct pathways of muscarinic current responses in rabbit sino-atrial node myocytes. *Pflugers Archiv European Journal of Physiology*, **1998**, 437, 164-7	4.6	15
60	Reduction of K+ uptake in glia prevents long-term depression maintenance and causes epileptiform activity. *Journal of Neuroscience*, **1997**, 17, 2813-24	6.6	142
59	Activation of f-channels by cAMP analogues in macropatches from rabbit sino-atrial node myocytes. *Journal of Physiology*, **1997**, 501 (Pt 3), 565-71	3.9	42
58	Action of the hyperpolarization-activated current (Ih) blocker ZD 7288 in hippocampal CA1 neurons. *Pflugers Archiv European Journal of Physiology*, **1997**, 435, 99-106	4.6	180
57	Modulation of the hyperpolarization-activated current (I(f)) by adenosine in rabbit sinoatrial myocytes. *Circulation*, **1996**, 94, 734-41	16.7	34
56	The hyperpolarization-activated (if) current: Autonomic regulation and the control of pacing. *Developments in Cardiovascular Medicine*, **1996**, 31-37		4
55	Cesium and the pacemaker current. *Journal of Cardiovascular Electrophysiology*, **1995**, 6, 1152-5	2.7	9
54	The pacemaker current (If) plays an important role in regulating SA node pacemaker activity. *Cardiovascular Research*, **1995**, 30, 307-308	9.9	28
53	Expression of KAT1, a plant inward-rectifying potassium channel, in Xenopus oocytes. *Giornale Botanico Italiano (Florence, Italy: 1962)*, **1995**, 129, 1068-1069		
52	The onset and autonomic regulation of cardiac pacemaker activity: relevance of the f current. *Cardiovascular Research*, **1995**, 29, 449-456	9.9	37
51	The onset and autonomic regulation of cardiac pacemaker activity: relevance of the f current. *Cardiovascular Research*, **1995**, 29, 449-456	9.9	33
50	Some properties of the UL-FS 49 block of the hyperpolarization-activated current (i(f)) in sino-atrial node myocytes. *Pflugers Archiv European Journal of Physiology*, **1994**, 427, 64-70	4.6	50
49	Hyperpolarization-Activated (if) Current in Heart **1994**, 335-343		1
48	Modulation of single hyperpolarization-activated channels (i(f)) by cAMP in the rabbit sino-atrial node. *Journal of Physiology*, **1994**, 474, 473-82	3.9	133
47	Cesium prevents maintenance of long-term depression in rat hippocampal CA1 neurons. *NeuroReport*, **1994**, 5, 1813-6	1.7	12
46	Pacemaker mechanisms in cardiac tissue. *Annual Review of Physiology*, **1993**, 55, 455-72	23.1	671
45	An isoform of the cGMP-gated retinal photoreceptor channel gene expressed in the sinoatrial node (pacemaker) region of rabbit heart. *Biochemical Society Transactions*, **1993**, 21, 119S	5.1	43

44	Properties of the hyperpolarization-activated current in rat hippocampal CA1 pyramidal cells. *Journal of Neurophysiology*, **1993**, 69, 2129-36	3.2	218
43	The Cardiac Pacemaker Current if. *Journal of Cardiovascular Electrophysiology*, **1992**, 3, 334-344	2.7	6
42	Expression and characterization of a canine hippocampal inwardly rectifying K+ current in Xenopus oocytes. *Journal of Physiology*, **1992**, 457, 229-46	3.9	4
41	Differential effects of ACh on cardiac pacemaker cells. *Trends in Neurosciences*, **1992**, 15, 249-50	13.3	2
40	Reciprocal role of the inward currents ib, Na and i(f) in controlling and stabilizing pacemaker frequency of rabbit sino-atrial node cells. *Proceedings of the Royal Society B: Biological Sciences*, **1992**, 250, 199-207	4.4	75
39	Cyclic AMP Regulation of the Pacemaker (If) Current in Heart **1992**, 241-246		
38	Effects of protein kinase inhibitors on canine Purkinje fibre pacemaker depolarization and the pacemaker current i(f). *Journal of Physiology*, **1991**, 440, 367-84	3.9	63
37	Generation and control of cardiac pacing the pacemaker current. *Trends in Cardiovascular Medicine*, **1991**, 1, 250-5	6.9	7
36	Direct activation of cardiac pacemaker channels by intracellular cyclic AMP. *Nature*, **1991**, 351, 145-7	50.4	655
35	The effects of manganese and barium on the cardiac pacemaker current, if, in rabbit sino-atrial node myocytes. *Experientia*, **1991**, 47, 449-52		11
34	Block of the cardiac pacemaker current (If) in the rabbit sino-atrial node and in canine Purkinje fibres by 9-amino-1,2,3,4-tetrahydroacridine. *Pflugers Archiv European Journal of Physiology*, **1991**, 417, 611-5	4.6	12
33	Intracellular calcium does not directly modulate cardiac pacemaker (if) channels. *Pflugers Archiv European Journal of Physiology*, **1991**, 419, 662-4	4.6	27
32	The contribution of the 'pacemaker' current (if) to generation of spontaneous activity in rabbit sino-atrial node myocytes. *Journal of Physiology*, **1991**, 434, 23-40	3.9	179
31	Acetylcholine reverses effects of beta-agonists on pacemaker current in canine cardiac Purkinje fibers but has no direct action. A difference between primary and secondary pacemakers. *Circulation Research*, **1990**, 66, 633-6	15.7	35
30	Intracellular Ca modulates K-inward rectification in cardiac myocytes. *Pflugers Archiv European Journal of Physiology*, **1989**, 413, 322-4	4.6	41
29	Internal and external K+ help gate the inward rectifier. *Biophysical Journal*, **1989**, 55, 197-202	2.9	32
28	Muscarinic modulation of cardiac rate at low acetylcholine concentrations. *Science*, **1989**, 243, 669-71	33.3	233
27	Muscarinic control of the hyperpolarization-activated current (if) in rabbit sino-atrial node myocytes. *Journal of Physiology*, **1988**, 405, 493-510	3.9	133

26	Inhibition of the hyperpolarization-activated current (if) induced by acetylcholine in rabbit sino-atrial node myocytes. *Journal of Physiology*, **1988**, 405, 477-91	3.9	133
25	Acetylcholine inhibits activation of the cardiac hyperpolarizing-activated current, if. *Pflugers Archiv European Journal of Physiology*, **1987**, 410, 139-42	4.6	63
24	Characterization of single pacemaker channels in cardiac sino-atrial node cells. *Nature*, **1986**, 324, 470-3	50.4	218
23	Properties of the hyperpolarizing-activated current (if) in cells isolated from the rabbit sino-atrial node. *Journal of Physiology*, **1986**, 377, 61-88	3.9	354
22	The nickel-promoted 1,3-migration of an sp2 center; ring expansion of a vinylcyclobutene. *Journal of Organic Chemistry*, **1986**, 51, 2098-2102	4.2	9
21	The cardiac hyperpolarizing-activated current, if. Origins and developments. *Progress in Biophysics and Molecular Biology*, **1985**, 46, 163-83	4.7	169
20	Cadmium-induced blockade of the cardiac fast Na channels in calf Purkinje fibres. *Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character*, **1985**, 223, 475-84		37
19	A model of cardiac electrical activity incorporating ionic pumps and concentration changes. *Philosophical Transactions of the Royal Society of London Series B, Biological Sciences*, **1985**, 307, 353-98		584
18	The Ionic Currents Underlying Pacemaker Activity. *Developments in Cardiovascular Medicine*, **1985**, 63-83		
17	Barium-induced blockade of the inward rectifier in calf Purkinje fibres. *Pflugers Archiv European Journal of Physiology*, **1984**, 402, 446-53	4.6	49
16	Characterization of the pace-maker current kinetics in calf Purkinje fibres. *Journal of Physiology*, **1984**, 348, 341-67	3.9	61
15	Delayed activation of the cardiac pacemaker current and its dependence on conditioning pre-hyperpolarizations. *Pflugers Archiv European Journal of Physiology*, **1983**, 396, 265-7	4.6	19
14	Block and activation of the pace-maker channel in calf purkinje fibres: effects of potassium, caesium and rubidium. *Journal of Physiology*, **1982**, 329, 485-507	3.9	139
13	Implications of the Re-Interpretation of iK2 for the Modelling of the Electrical Activity of Pacemaker Tissues in the Heart. *Developments in Cardiovascular Medicine*, **1982**, 93-128		14
12	A new interpretation of the pace-maker current in calf Purkinje fibres. *Journal of Physiology*, **1981**, 314, 359-76	3.9	318
11	A study of the ionic nature of the pace-maker current in calf Purkinje fibres. *Journal of Physiology*, **1981**, 314, 377-93	3.9	265
10	Voltage-clamp investigations of membrane currents underlying pace-maker activity in rabbit sino-atrial node. *Journal of Physiology*, **1980**, 308, 331-51	3.9	258
9	The contribution of potassium accumulation to outward currents in frog atrium. *Journal of Physiology*, **1980**, 306, 127-49	3.9	19

8	Properties of the current if in the sino-atrial node of the rabbit compared with those of the current iK, in Purkinje fibres. *Journal of Physiology*, **1980**, 308, 353-67	3.9	151
7	The time course of potassium current following potassium accumulation in frog atrium: analytical solutions using a linear approximation. *Journal of Physiology*, **1980**, 306, 151-73	3.9	11
6	Separation of current induced by potassium accumulation from acetylcholine-induced relaxation current in the rabbit S-A node. *Pflugers Archiv European Journal of Physiology*, **1980**, 387, 83-90	4.6	16
5	Kinetics and magnitude of the time-dependent potassium current in the rabbit sinoatrial node: effect of external potassium. *Pflugers Archiv European Journal of Physiology*, **1979**, 381, 271-9	4.6	70
4	How does adrenaline accelerate the heart?. *Nature*, **1979**, 280, 235-6	50.4	424
3	Measurement and significance of the reversal potential for the pace-maker current (iK2) in sheep Purkinje fibres. *Journal of Physiology*, **1979**, 297, 135-62	3.9	44
2	The effects of calcium on outward membrane currents in the cardiac Purkinje fibre. *Journal of Physiology*, **1979**, 289, 347-73	3.9	61
1	Action of ouabain, oligomycin, and glucagon on cultured heart cells treated with adriamycin. *Pharmacological Research Communications*, **1976**, 8, 105-9		16