Matthew K Lancaster

List of Publications by Citations

22 papers	803 citations	13 h-index	24 g-index
24 ext. papers	889 ext. citations	6.3 avg, IF	3.39 L-index

#	Paper	IF	Citations
22	Requirement of neuronal- and cardiac-type sodium channels for murine sinoatrial node pacemaking. *Journal of Physiology*, **2004**, 559, 835-48	3.9	147
21	Computer three-dimensional reconstruction of the sinoatrial node. *Circulation*, **2005**, 111, 846-54	16.7	139
20	Ageing-related changes of connexins and conduction within the sinoatrial node. *Journal of Physiology*, **2004**, 560, 429-37	3.9	96
19	Declining into failure: the age-dependent loss of the L-type calcium channel within the sinoatrial node. *Circulation*, **2007**, 115, 1183-90	16.7	88
18	Sophisticated architecture is required for the sinoatrial node to perform its normal pacemaker function. *Journal of Cardiovascular Electrophysiology*, **2003**, 14, 104-6	2.7	51
17	Cx43 and dual-pathway electrophysiology of the atrioventricular node and atrioventricular nodal reentry. *Circulation Research*, **2003**, 92, 469-75	15.7	51
16	Sarcoplasmic reticulum Ca2+ release is not a dominating factor in sinoatrial node pacemaker activity. *Circulation Research*, **2003**, 92, e41-4	15.7	47
15	The effects of levosimendan on [Ca2+]i in guinea-pig isolated ventricular myocytes. *European Journal of Pharmacology*, **1997**, 339, 97-100	5.3	42
14	Intracellular Ca2+ and pacemaking within the rabbit sinoatrial node: heterogeneity of role and control. *Journal of Physiology*, **2004**, 556, 481-94	3.9	42
13	Residues and mechanisms for slow activation and Ba2+ block of the cardiac muscarinic K+ channel, Kir3.1/Kir3.4. *Journal of Biological Chemistry*, **2000**, 275, 35831-9	5.4	25
12	Distinguishing properties of cells from the myocardial sleeves of the pulmonary veins: a comparison of normal and abnormal pacemakers. *Circulation: Arrhythmia and Electrophysiology*, **2008**, 1, 39-48	6.4	21
11	Aging is a primary risk factor for cardiac arrhythmias: disruption of intracellular Ca2+ regulation as a key suspect. *Expert Review of Cardiovascular Therapy*, **2011**, 9, 1059-67	2.5	16
10	Progressive age-associated activation of JNK associates with conduction disruption in the aged atrium. *Mechanisms of Ageing and Development*, **2015**, 146-148, 72-80	5.6	13
9	Interactions of Short-Term and Chronic Treadmill Training With Aging of the Left Ventricle of the Heart. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2016**, 71, 1005-13	6.4	7
8	The sinoatrial node: cell size does matter. *Circulation Research*, **2007**, 101, e81-2	15.7	6
7	Cs+ block of the cardiac muscarinic K+ channel, GIRK1/GIRK4, is not dependent on the aspartate residue at position 173. *Pflugers Archiv European Journal of Physiology*, **2000**, 440, 740-4	4.6	3
6	Changes in contraction, cytosolic Ca2+ and pH during metabolic inhibition and upon restoration of mitochondrial respiration in rat ventricular myocytes. *Experimental Physiology*, **1998**, 83, 349-60	2.4	3

List of Publications

5	Regulation of sinus node pacemaking and atrioventricular node conduction by HCN channels in health and disease. *Progress in Biophysics and Molecular Biology*, **2021**, 166, 61-85	4.7	3
4	Reduced cardiac response to the adrenergic system is a key limiting factor for physical capacity in old age. *Experimental Gerontology*, **2021**, 150, 111339	4.5	2
3	K 3.1 protein is expressed as a transmural gradient across the rat left ventricular free wall. *Journal of Cardiovascular Electrophysiology*, **2019**, 30, 383-391	2.7	1
2	Action potential responses to changes in stimulation frequency and isoproterenol in rat ventricular myocytes.. *Physiological Reports*, **2022**, 10, e15166	2.6	0
1	194 High-Intensity Interval Training can have Negative Effects on Cardiovascular Risk Factors and ECG Parameters in a Young Healthy Population. *Heart*, **2015**, 101, A108.1-A108	5.1	