Andrew Trafford

List of Publications by Year in Descending Order

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Version: 2024-04-20

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

115	5,857	43	74
papers	citations	h-index	g-index
131	6,748 ext. citations	7.4	5.72
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
115	Alkaline nucleoplasm facilitates contractile gene expression in the mammalian heart <i>Basic Research in Cardiology</i> , 2022 , 117, 17	11.8	
114	Cardiac Transverse Tubules in Physiology and Heart Failure. Annual Review of Physiology, 2021,	23.1	3
113	Maternal melatonin: Effective intervention against developmental programming of cardiovascular dysfunction in adult offspring of complicated pregnancy. <i>Journal of Pineal Research</i> , 2021 , 72, e12766	10.4	О
112	Response to correspondence on "Reproducibility of CRISPR-Cas9 methods for generation of conditional mouse alleles: a multi-center evaluation". <i>Genome Biology</i> , 2021 , 22, 99	18.3	2
111	Distinct circadian mechanisms govern cardiac rhythms and susceptibility to arrhythmia. <i>Nature Communications</i> , 2021 , 12, 2472	17.4	9
110	Optimising Large Animal Models of Sustained Atrial Fibrillation: Relevance of the Critical Mass Hypothesis. <i>Frontiers in Physiology</i> , 2021 , 12, 690897	4.6	О
109	Sex-dependent effects of developmental hypoxia on cardiac mitochondria from adult murine offspring. <i>Free Radical Biology and Medicine</i> , 2021 , 162, 490-499	7.8	6
108	Electrophysiological and Proarrhythmic Effects of Hydroxychloroquine Challenge in Guinea-Pig Hearts. <i>ACS Pharmacology and Translational Science</i> , 2021 , 4, 1639-1653	5.9	0
107	PDE5 Inhibition Suppresses Ventricular Arrhythmias by Reducing SR Ca Content. <i>Circulation Research</i> , 2021 , 129, 650-665	15.7	2
106	Chronic vagal nerve stimulation has no effect on tachycardia-induced heart failure progression or excitation-contraction coupling. <i>Physiological Reports</i> , 2020 , 8, e14321	2.6	2
105	The Control of Diastolic Calcium in the Heart: Basic Mechanisms and Functional Implications. <i>Circulation Research</i> , 2020 , 126, 395-412	15.7	43
104	Postnatal Enalapril to Improve Cardiovascular Function Following Preterm Preeclampsia (PICk-UP):: A Randomized Double-Blind Placebo-Controlled Feasibility Trial. <i>Hypertension</i> , 2020 , 76, 1828-1837	8.5	5
103	Non-ischemic Heart Preservation via Hypothermic Cardioplegic Perfusion Induces Immunodepletion of Donor Hearts Resulting in Diminished Graft Infiltration Following Transplantation. <i>Frontiers in Immunology</i> , 2020 , 11, 1621	8.4	4
102	Reproducibility of CRISPR-Cas9 methods for generation of conditional mouse alleles: a multi-center evaluation. <i>Genome Biology</i> , 2019 , 20, 171	18.3	39
101	Letter by Hutchings et al Regarding Article, "Preimplant Phosphodiesterase-5 Inhibitor Use Is Associated With Higher Rates of Severe Early Right Heart Failure After Left Ventricular Assist Device Implantation: An INTERMACS Analysis". <i>Circulation: Heart Failure</i> , 2019 , 12, e006410	7.6	1
100	Phosphodiesterase 5 inhibition improves contractile function and restores transverse tubule loss and catecholamine responsiveness in heart failure. <i>Scientific Reports</i> , 2019 , 9, 6801	4.9	22
99	Phosphodiesterase-5 inhibitors and the heart: compound cardioprotection?. <i>Heart</i> , 2018 , 104, 1244-125	505.1	43

98	Increased Vulnerability to Atrial Fibrillation Is Associated With Increased Susceptibility to Alternans in Old Sheep. <i>Journal of the American Heart Association</i> , 2018 , 7, e009972	6	11
97	Calcium in the Pathophysiology of Atrial Fibrillation and Heart Failure. <i>Frontiers in Physiology</i> , 2018 , 9, 1380	4.6	66
96	A computational model of spatio-temporal cardiac intracellular calcium handling with realistic structure and spatial flux distribution from sarcoplasmic reticulum and t-tubule reconstructions. <i>PLoS Computational Biology</i> , 2017 , 13, e1005714	5	31
95	Letter by Pearman etlal. legarding article "Effect of botulinum toxin on inducibility and maintenance of atrial fibrillation in ovine myocardial tissue". <i>PACE - Pacing and Clinical Electrophysiology</i> , 2017 , 40, 1186	1.6	
94	Increased Ca buffering underpins remodelling of Ca handling in old sheep atrial myocytes. <i>Journal of Physiology</i> , 2017 , 595, 6263-6279	3.9	9
93	Calcium and Excitation-Contraction Coupling in the Heart. Circulation Research, 2017, 121, 181-195	15.7	318
92	Vagal Nerve Stimulation for the Treatment of Heart Failure 2017 , 157-179		1
91	Omega-3 fatty acids do not alter P-wave parameters in electrocardiogram or expression of atrial connexins in patients undergoing coronary artery bypass surgery. <i>Europace</i> , 2016 , 18, 1521-1527	3.9	3
90	Aging and the cardiac collagen matrix: Novel mediators of fibrotic remodelling. <i>Journal of Molecular and Cellular Cardiology</i> , 2016 , 93, 175-85	5.8	140
89	Phosphodiesterase type-5 inhibitor use in type 2 diabetes is associated with a reduction in all-cause mortality. <i>Heart</i> , 2016 , 102, 1750-1756	5.1	58
88	Temporal Development of Autonomic Dysfunction in Heart Failure: Effects of Age in an Ovine Rapid-pacing Model. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2016 , 71, 1544-1552	6.4	4
87	Frequency-modulated atomic force microscopy localises viscoelastic remodelling in the ageing sheep aorta. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 64, 10-7	4.1	14
86	Perturbed atrial calcium handling in an ovine model of heart failure: potential roles for reductions in the L-type calcium current. <i>Journal of Molecular and Cellular Cardiology</i> , 2015 , 79, 169-79	5.8	31
85	MAPS; acute safety data of the St Jude accent - tendril IPG system during prolonged max power CMR scanning. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	78
84	A model model: a commentary on DiFrancesco and Noble (1985) 'A model of cardiac electrical activity incorporating ionic pumps and concentration changes'. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015 , 370,	5.8	3
83	Concise Review: Cardiac Disease Modeling Using Induced Pluripotent Stem Cells. <i>Stem Cells</i> , 2015 , 33, 2643-51	5.8	35
82	Three-dimensional structure of the intercalated disc reveals plicate domain and gap junction remodeling in heart failure. <i>Biophysical Journal</i> , 2015 , 108, 498-507	2.9	33
81	Dependence of cardiac transverse tubules on the BAR domain protein amphiphysin II (BIN-1). <i>Circulation Research</i> , 2014 , 115, 986-96	15.7	78

80	Direct measurements of SR free Ca reveal the mechanism underlying the transient effects of RyR potentiation under physiological conditions. <i>Cardiovascular Research</i> , 2014 , 103, 554-63	9.9	19
79	Balanced changes in Ca buffering by SERCA and troponin contribute to Ca handling during Endrenergic stimulation in cardiac myocytes. <i>Cardiovascular Research</i> , 2014 , 104, 347-54	9.9	25
78	An induced pluripotent stem cell model of hypoplastic left heart syndrome (HLHS) reveals multiple expression and functional differences in HLHS-derived cardiac myocytes. <i>Stem Cells Translational Medicine</i> , 2014 , 3, 416-23	6.9	57
77	Three-dimensional reconstruction of cardiac sarcoplasmic reticulum reveals a continuous network linking transverse-tubules: this organization is perturbed in heart failure. <i>Circulation Research</i> , 2013 , 113, 1219-30	15.7	95
76	Calcium flux balance in the heart. Journal of Molecular and Cellular Cardiology, 2013, 58, 110-7	5.8	83
75	A functional role for transverse (t-) tubules in the atria. <i>Journal of Molecular and Cellular Cardiology</i> , 2013 , 58, 84-91	5.8	31
74	Sarcoplasmic reticulum Ca-ATPase and heart failure 20 years later. Circulation Research, 2013, 113, 958-	-6:1 5.7	28
73	Calcium signalling microdomains and the t-tubular system in atrial mycoytes: potential roles in cardiac disease and arrhythmias. <i>Cardiovascular Research</i> , 2013 , 98, 192-203	9.9	38
72	Human junctophilin-2 undergoes a structural rearrangement upon binding PtdIns(3,4,5)P3 and the S101R mutation identified in hypertrophic cardiomyopathy obviates this response. <i>Biochemical Journal</i> , 2013 , 456, 205-17	3.8	19
71	Diastolic spontaneous calcium release from the sarcoplasmic reticulum increases beat-to-beat variability of repolarization in canine ventricular myocytes after Eddrenergic stimulation. <i>Circulation Research</i> , 2013 , 112, 246-56	15.7	65
70	Both collagen and elastin matrices are remodeled in the failing ovine atria has role for elastin-degrading enzymes in atrial structural remodeling. <i>FASEB Journal</i> , 2013 , 27, 1129.7	0.9	
69	Age-related divergent remodeling of the cardiac extracellular matrix in heart failure: collagen accumulation in the young and loss in the aged. <i>Journal of Molecular and Cellular Cardiology</i> , 2012 , 53, 82-90	5.8	71
68	Enhanced sarcoplasmic reticulum Ca2+ leak and increased Na+-Ca2+ exchanger function underlie delayed afterdepolarizations in patients with chronic atrial fibrillation. <i>Circulation</i> , 2012 , 125, 2059-70	16.7	395
67	Primum non nocere: when will ryanodine receptor leak find its role in heart failure?. <i>Journal of Molecular and Cellular Cardiology</i> , 2011 , 50, 13-5	5.8	O
66	How can we improve our understanding of cardiovascular safety liabilities to develop safer medicines?. <i>British Journal of Pharmacology</i> , 2011 , 163, 675-93	8.6	247
65	Impaired Eddrenergic responsiveness accentuates dysfunctional excitation-contraction coupling in an ovine model of tachypacing-induced heart failure. <i>Journal of Physiology</i> , 2011 , 589, 1367-82	3.9	41
64	Changes of SERCA activity have only modest effects on sarcoplasmic reticulum Ca2+ content in rat ventricular myocytes. <i>Journal of Physiology</i> , 2011 , 589, 4723-9	3.9	42
63	Localised micro-mechanical stiffening in the ageing aorta. <i>Mechanisms of Ageing and Development</i> , 2011 , 132, 459-67	5.6	39

62	Ca(2+) wave probability is determined by the balance between SERCA2-dependent Ca(2+) reuptake and threshold SR Ca(2+) content. <i>Cardiovascular Research</i> , 2011 , 90, 503-12	9.9	25
61	Transverse tubules are a common feature in large mammalian atrial myocytes including human. American Journal of Physiology - Heart and Circulatory Physiology, 2011 , 301, H1996-2005	5.2	103
60	How does CaMKIIdelta phosphorylation of the cardiac ryanodine receptor contribute to inotropy?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, E123; author reply E124	11.5	4
59	In the RyR2(R4496C) mouse model of CPVT, 🗟 drenergic stimulation induces Ca waves by increasing SR Ca content and not by decreasing the threshold for Ca waves. <i>Circulation Research</i> , 2010 , 107, 1483-9	15.7	76
58	Reduced SERCA2 abundance decreases the propensity for Ca2+ wave development in ventricular myocytes. <i>Cardiovascular Research</i> , 2010 , 86, 63-71	9.9	41
57	Tissue section AFM: In situ ultrastructural imaging of native biomolecules. <i>Matrix Biology</i> , 2010 , 29, 254-	-60.4	82
56	Characterization of an extensive transverse tubular network in sheep atrial myocytes and its depletion in heart failure. <i>Circulation: Heart Failure</i> , 2009 , 2, 482-9	7.6	120
55	What is the purpose of the large sarcolemmal calcium flux on each heartbeat?. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009 , 297, H493-4	5.2	5
54	Nanoindentation of histological specimens: Mapping the elastic properties of soft tissues. <i>Journal of Materials Research</i> , 2009 , 24, 638-646	2.5	67
53	The mechanism and significance of the slow changes of ventricular action potential duration following a change of heart rate. <i>Experimental Physiology</i> , 2009 , 94, 520-8	2.4	39
52	Differences in intracellular calcium homeostasis between atrial and ventricular myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2009 , 46, 463-73	5.8	106
51	What role does modulation of the ryanodine receptor play in cardiac inotropy and arrhythmogenesis?. <i>Journal of Molecular and Cellular Cardiology</i> , 2009 , 46, 474-81	5.8	73
50	From the ryanodine receptor to cardiac arrhythmias. Circulation Journal, 2009, 73, 1561-7	2.9	49
49	Extracellular matrix profiles in the progression to heart failure. European Young Physiologists Symposium Keynote Lecture-Bratislava 2007. <i>Acta Physiologica</i> , 2008 , 194, 3-21	5.6	77
48	The sarcoplasmic reticulum and arrhythmogenic calcium release. Cardiovascular Research, 2008, 77, 285	-92)	168
47	Regulation of systolic [Ca2+]i and cellular Ca2+ flux balance in rat ventricular myocytes by SR Ca2+, L-type Ca2+ current and diastolic [Ca2+]i. <i>Journal of Physiology</i> , 2007 , 585, 579-92	3.9	55
46	Analysis of cellular calcium fluxes in cardiac muscle to understand calcium homeostasis in the heart. <i>Cell Calcium</i> , 2007 , 42, 503-12	4	65
45	Na/Ca exchange: regulator of intracellular calcium and source of arrhythmias in the heart. <i>Annals of the New York Academy of Sciences</i> , 2007 , 1099, 315-25	6.5	42

44	Increasing ryanodine receptor open probability alone does not produce arrhythmogenic calcium waves: threshold sarcoplasmic reticulum calcium content is required. <i>Circulation Research</i> , 2007 , 100, 105-11	15.7	154
43	Spatial disruption and enhanced degradation of collagen with the transition from compensated ventricular hypertrophy to symptomatic congestive heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 292, H1364-72	5.2	34
42	A mechanism distinct from the L-type Ca current or Na-Ca exchange contributes to Ca entry in rat ventricular myocytes. <i>Cell Calcium</i> , 2006 , 39, 417-23	4	18
41	Reducing ryanodine receptor open probability as a means to abolish spontaneous Ca2+ release and increase Ca2+ transient amplitude in adult ventricular myocytes. <i>Circulation Research</i> , 2006 , 98, 1299-30	0 5 5.7	81
40	Life, sudden death, and intracellular calcium. Circulation Research, 2006, 99, 223-4	15.7	17
39	Stability and instability of regulation of intracellular calcium. <i>Experimental Physiology</i> , 2005 , 90, 3-12	2.4	45
38	The control of sarcoplasmic reticulum Ca content in cardiac muscle. <i>Cell Calcium</i> , 2005 , 38, 391-6	4	74
37	Photoperiod-dependent modulation of cardiac excitation contraction coupling in the Siberian hamster. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005 , 288, R607-14	3.2	17
36	Enhanced sarcolemmal Ca2+ efflux reduces sarcoplasmic reticulum Ca2+ content and systolic Ca2+ in cardiac hypertrophy. <i>Cardiovascular Research</i> , 2004 , 62, 538-47	9.9	52
35	Physiological and pathological modulation of ryanodine receptor function in cardiac muscle. <i>Cell Calcium</i> , 2004 , 35, 583-9	4	28
34	Mechanisms underlying enhanced cardiac excitation contraction coupling observed in the senescent sheep myocardium. <i>Journal of Molecular and Cellular Cardiology</i> , 2004 , 37, 1171-81	5.8	58
33	DYNAMICS OF CARDIAC INTRACELLULAR Ca2+ HANDLING FROM EXPERIMENTS TO VIRTUAL CELLS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003 , 13, 3535	5- 3 560	1
32	Location, location, location: new avenues to determine the function of the cardiac Na+-Ca2+ exchanger?. <i>Journal of Molecular and Cellular Cardiology</i> , 2003 , 35, 1321-4	5.8	1
31	No role for a voltage sensitive release mechanism in cardiac muscle. <i>Journal of Molecular and Cellular Cardiology</i> , 2003 , 35, 145-51	5.8	13
30	Illuminating sarcoplasmic reticulum calcium. <i>Circulation Research</i> , 2003 , 93, 4-5	15.7	8
29	Integrative analysis of calcium signalling in cardiac muscle. <i>Frontiers in Bioscience - Landmark</i> , 2002 , 7, d843-52	2.8	27
28	Excitation-Contraction Coupling in Cardiac Muscle. Advances in Muscle Research, 2002, 49-89		1
27	The role of intracellular Ca buffers in determining the shape of the systolic Ca transient in cardiac ventricular myocytes. <i>Pflugers Archiv European Journal of Physiology</i> , 2001 , 442, 96-100	4.6	28

26	Coordinated control of cell Ca(2+) loading and triggered release from the sarcoplasmic reticulum underlies the rapid inotropic response to increased L-type Ca(2+) current. <i>Circulation Research</i> , 2001 , 88, 195-201	15.7	106
25	The effects of exogenous calcium buffers on the systolic calcium transient in rat ventricular myocytes. <i>Biophysical Journal</i> , 2001 , 80, 1915-25	2.9	32
24	The effect of acidosis on systolic Ca2+ and sarcoplasmic reticulum calcium content in isolated rat ventricular myocytes. <i>Journal of Physiology</i> , 2000 , 529 Pt 3, 661-8	3.9	61
23	Modulation of CICR has no maintained effect on systolic Ca2+: simultaneous measurements of sarcoplasmic reticulum and sarcolemmal Ca2+ fluxes in rat ventricular myocytes. <i>Journal of Physiology</i> , 2000 , 522 Pt 2, 259-70	3.9	141
22	The effects of low concentrations of caffeine on spontaneous Ca release in isolated rat ventricular myocytes. <i>Cell Calcium</i> , 2000 , 28, 269-76	4	86
21	Measurement of calcium entry and exit in quiescent rat ventricular myocytes. <i>Pflugers Archiv European Journal of Physiology</i> , 2000 , 440, 600-8	4.6	18
20	No Role for the Ryanodine Receptor in Regulating Cardiac Contraction?. <i>Physiology</i> , 2000 , 15, 275-279	9.8	10
19	Can changes of ryanodine receptor expression affect cardiac contractility?. <i>Cardiovascular Research</i> , 2000 , 45, 1068-71	9.9	5
18	Integrative analysis of calcium cycling in cardiac muscle. Circulation Research, 2000, 87, 1087-94	15.7	254
17	The ryanodine receptor: cause or consequence of diabetic heart failure?. <i>Journal of Molecular and Cellular Cardiology</i> , 2000 , 32, 1377-9	5.8	2
16	A novel, rapid and reversible method to measure Ca buffering and time-course of total sarcoplasmic reticulum Ca content in cardiac ventricular myocytes. <i>Pflugers Archiv European Journal of Physiology</i> , 1999 , 437, 501-3	4.6	104
15	Another trigger for the heartbeat. <i>Journal of Physiology</i> , 1998 , 513 (Pt 1), 1	3.9	4
14	Measurement of sarcoplasmic reticulum Ca content and sarcolemmal fluxes during the transient stimulation of the systolic Ca transient produced by caffeine. <i>Annals of the New York Academy of Sciences</i> , 1998 , 853, 368-71	6.5	8
13	Ca-activated chloride current and Na-Ca exchange have different timecourses during sarcoplasmic reticulum Ca release in ferret ventricular myocytes. <i>Pflugers Archiv European Journal of Physiology</i> , 1998 , 435, 743-5	4.6	33
12	2,3-Butanedione monoxime (BDM) decreases sarcoplasmic reticulum Ca content by stimulating Ca release in isolated rat ventricular myocytes. <i>Pflugers Archiv European Journal of Physiology</i> , 1998 , 436, 776-81	4.6	26
11	Stimulation of Ca-induced Ca release only transiently increases the systolic Ca transient: measurements of Ca fluxes and sarcoplasmic reticulum Ca. <i>Cardiovascular Research</i> , 1998 , 37, 710-7	9.9	42
10	The control of Ca release from the cardiac sarcoplasmic reticulum: regulation versus autoregulation. <i>Cardiovascular Research</i> , 1998 , 38, 589-604	9.9	170
9	Measurement of sarcoplasmic reticulum Ca2+ content and sarcolemmal Ca2+ fluxes in isolated rat ventricular myocytes during spontaneous Ca2+ release. <i>Journal of Physiology</i> , 1997 , 501 (Pt 1), 3-16	3.9	154

8	A measurable reduction of s.r. Ca content follows spontaneous Ca release in rat ventricular myocytes. <i>Pflugers Archiv European Journal of Physiology</i> , 1997 , 434, 852-4	4.6	28
7	Enhanced Ca2+ current and decreased Ca2+ efflux restore sarcoplasmic reticulum Ca2+ content after depletion. <i>Circulation Research</i> , 1997 , 81, 477-84	15.7	79
6	Variability of spontaneous Ca2+ release between different rat ventricular myocytes is correlated with Na(+)-Ca2+ exchange and [Na+]i. <i>Circulation Research</i> , 1996 , 78, 857-62	15.7	22
5	Comparison of Near Membrane and Bulk Cytoplasmic Calcium Concentration in Single Cardiac Ventricular Myocytes During Spontaneous Calcium Waves 1996 , 109-128		
4	Propagating calcium waves initiated by local caffeine application in rat ventricular myocytes. Journal of Physiology, 1995 , 489 (Pt 2), 319-26	3.9	47
3	Comparison of subsarcolemmal and bulk calcium concentration during spontaneous calcium release in rat ventricular myocytes. <i>Journal of Physiology</i> , 1995 , 488 (Pt 3), 577-86	3.9	93
2	Use of medetomidine and butorphanol for sedation in dogs. <i>Journal of Small Animal Practice</i> , 1994 , 35, 495-498	1.6	25
1	Factors affecting the propagation of locally activated systolic Ca transients in rat ventricular myocytes. <i>Pflugers Archiv European Journal of Physiology</i> , 1993 , 425, 181-3	4.6	40