Michael J Shattock

List of Publications by Year
in descending order

127 papers	6,209 citations	87888 38 h-index	74163 75 g-index
131 all docs	131 docs citations	131 times ranked	8773 citing authors

#	Article	IF	Citations
1	Stimulated phosphorylation of ERK in mouse kidney mesangial cells is dependent upon expression of Cav3.1. BMC Nephrology, 2022, 23, .	1.8	0
2	Off-target effects of sodium-glucose co-transporter 2 blockers: empagliflozin does not inhibit Na+/H+ exchanger-1 or lower [Na+]i in the heart. Cardiovascular Research, 2021, 117, 2794-2806.	3.8	84
3	Mechanism of succinate efflux upon reperfusion of the ischaemic heart. Cardiovascular Research, 2021, 117, 1188-1201.	3.8	59
4	Phospholemman Phosphorylation Regulates Vascular Tone, Blood Pressure, and Hypertension in Mice and Humans. Circulation, 2021, 143, 1123-1138.	1.6	12
5	SGLT2 inhibitors and the cardiac Na+/H+ exchanger-1: the plot thickens. Cardiovascular Research, 2021, 117, 2702-2704.	3.8	16
6	With a grain of salt: Sodium elevation and metabolic remodelling in heart failure. Journal of Molecular and Cellular Cardiology, 2021, 161, 106-115.	1.9	7
7	Realâ€time <i>ex vivo</i> perfusion of human lymph nodes invaded by cancer (REPLICANT): a feasibility study. Journal of Pathology, 2020, 250, 262-274.	4.5	5
8	Control of protein palmitoylation by regulating substrate recruitment to a zDHHC-protein acyltransferase. Communications Biology, 2020, 3, 411.	4.4	54
9	14-3-3 binding creates a memory of kinase action by stabilizing the modified state of phospholamban. Science Signaling, 2020, 13, .	3.6	19
10	COVIDâ€19 and haemoglobin oxygen affinity: some clarity?. British Journal of Haematology, 2020, 190, 723-724.	2.5	6
11	Intracellular sodium elevation reprograms cardiac metabolism. Nature Communications, 2020, 11, 4337.	12.8	44
12	Ion-Channel modulator TH1177 reduces glomerular injury and serum creatinine in chronic mesangial proliferative disease in rats. BMC Nephrology, 2020, 21, 187.	1.8	2
13	Haemoglobin oxygen affinity in patients with severe COVIDâ€19 infection. British Journal of Haematology, 2020, 190, e126-e127.	2.5	36
14	The Amplitude-Normalized Area of a Bipolar Electrogram as a Measure of Local Conduction Delay in the Heart. Frontiers in Physiology, 2020, 11, 465.	2.8	4
15	Ablation of Toll-like receptor 9 attenuates myocardial ischemia/reperfusion injury in mice. Biochemical and Biophysical Research Communications, 2019, 515, 442-447.	2.1	30
16	Heart failure leads to altered Î²2-adrenoceptor/cyclic adenosine monophosphate dynamics in the sarcolemmal phospholemman/Na,K ATPase microdomain. Cardiovascular Research, 2019, 115, 546-555.	3.8	31
17	Autonomic conflict exacerbates long QT associated ventricular arrhythmias. Journal of Molecular and Cellular Cardiology, 2018, 116, 145-154.	1.9	29
18	P1â€...Causal link between intracellular sodium overload and metabolic remodelling in the heart: uncoupling ATP supply and demand?. , 2018, , .		1

#	Article	IF	Citations
19	Sympathetic Nervous Regulation of Calcium and Action Potential Alternans in the Intact Heart. Frontiers in Physiology, 2018, 9, 16.	2.8	18
20	Is there a causal link between intracellular Na elevation and metabolic remodelling in cardiac hypertrophy?. Biochemical Society Transactions, 2018, 46, 817-827.	3.4	15
21	FXYD1 (Phospholemman). , 2018, , 1875-1883.		0
22	Expression and regulation of type 2A protein phosphatases and alpha4 signalling in cardiac health and hypertrophy. Basic Research in Cardiology, 2017, 112, 37.	5.9	11
23	Restitution slope is principally determined by steady-state action potential duration. Cardiovascular Research, 2017, 113, 817-828.	3.8	45
24	Is rate-pressure product of any use in the isolated rat heart? Assessing cardiac â€˜effortâ€™ and oxygen consumption in the Langendorff-perfused heart. Experimental Physiology, 2016, 101, 282-294.	2.0	16
25	Increased oxidative metabolism following hypoxia in the type 2 diabetic heart, despite normal hypoxia signalling and metabolic adaptation. Journal of Physiology, 2016, 594, 307-320.	2.9	40
26	Intensive training and reduced volume increases muscle FXYD1 expression and phosphorylation at rest and during exercise in athletes. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 310, R659-R669.	1.8	19
27	Reversal of cardiac vagal effects of physostigmine by adjunctive muscarinic blockade. NeuroToxicology, 2016, 57, 174-182.	3.0	0
28	Disulfide-activated protein kinase G Iî± regulates cardiac diastolic relaxation and fine-tunes the Frankâ€“Starling response. Nature Communications, 2016, 7, 13187.	12.8	46
29	Geometrical considerations in cardiac electrophysiology and arrhythmogenesis. Europace, 2016, 18, 320-331.	1.7	14
30	Ventricular cycle length irregularity affects the correlation between ventricular rate and coronary flow in isolated, Langendorff perfused guinea pig hearts. Journal of Pharmacological and Toxicological Methods, 2016, 77, 45-52.	0.7	1
31	FXYD1 (Phospholemman). , 2016, , 1-9.		0
32	Selective superoxide generation within mitochondria by the targeted redox cycler MitoParaquat. Free Radical Biology and Medicine, 2015, 89, 883-894.	2.9	111
33	Concomitant vagal and adrenergic stimulation does not precipitate ventricular arrhythmias in a healthy rabbit heart model of autonomic conflict. Extreme Physiology and Medicine, 2015, 4, A39.	2.5	0
34	Vagal modulation of dispersion of repolarisation in the rabbit heart. Journal of Molecular and Cellular Cardiology, 2015, 85, 89-101.	1.9	9
35	Multiple quantum filtered 23Na NMR in the Langendorff perfused mouse heart: Ratio of triple/double quantum filtered signals correlates with [Na]i. Journal of Molecular and Cellular Cardiology, 2015, 86, 95-101.	1.9	22
36	Exercise at depth alters bradycardia and incidence of cardiac anomalies in deep-diving marine mammals. Nature Communications, 2015, 6, 6055.	12.8	83

#	ARTICLE	IF	CITATIONS
37	Na⁺/Ca²⁺ exchange and Na⁺/K⁺â€ATPase in the heart. Journal of Physiology, 2015, 593, 1361-1382.	2.9	160
38	Inhibition of K+ Transport through Na+, K+-ATPase by Capsazepine: Role of Membrane Span 10 of the Î±-Subunit in the Modulation of Ion Gating. PLoS ONE, 2014, 9, e96909.	2.5	13
39	Substrate recognition by the cell surface palmitoyl transferase DHHC5. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17534-17539.	7.1	108
40	EXPRESSION OF TYPE 2A PROTEIN PHOSPHATASES IN CARDIAC HEALTH AND DISEASE. Heart, 2014, 100, A16.2-A16.	2.9	1
41	Cardiac hypertrophy in mice expressing unphosphorylatable phospholemman. Cardiovascular Research, 2014, 104, 72-82.	3.8	41
42	Investigating the potential role of <scp>TRPA</scp>1 in locomotion and cardiovascular control during hypertension. Pharmacology Research and Perspectives, 2014, 2, e00052.	2.4	33
43	Ischaemic accumulation of succinate controls reperfusion injury through mitochondrial ROS. Nature, 2014, 515, 431-435.	27.8	1,989
44	Response to Role of Hyperleptinemia in the Regulation of Blood Pressure and Cardiac Function. Hypertension, 2014, 63, e2.	2.7	0
45	Erratum to â€˜Novel regulation of cardiac Na pump via phospholemmanâ€™ [J Mol Cell Cardiol 61 (2013) 83â€“93]. Journal of Molecular and Cellular Cardiology, 2014, 69, 75.	1.9	0
46	Phospholemman-Dependent Regulation of Na/K-Atpase Modulates Constriction and Relaxation in Aortic Smooth Muscle. Biophysical Journal, 2014, 106, 725a.	0.5	1
47	Regulation of the cardiac sodium pump. Cellular and Molecular Life Sciences, 2013, 70, 1357-1380.	5.4	61
48	Experimental Hyperleptinemia in Neonatal Rats Leads to Selective Leptin Responsiveness, Hypertension, and Altered Myocardial Function. Hypertension, 2013, 62, 627-633.	2.7	43
49	Anti-Proliferative Actions of T-Type Calcium Channel Inhibition in Thy1 Nephritis. American Journal of Pathology, 2013, 183, 391-401.	3.8	15
50	Nitric oxide regulates cardiac intracellular Na+ and Ca2+ by modulating Na/K ATPase via PKCÎµ and phospholemman-dependent mechanism. Journal of Molecular and Cellular Cardiology, 2013, 61, 164-171.	1.9	41
51	The salt of the earth: Focus on Na+ regulation in the cardiac myocyte. Journal of Molecular and Cellular Cardiology, 2013, 61, 1.	1.9	0
52	Novel regulation of cardiac Na pump via phospholemman. Journal of Molecular and Cellular Cardiology, 2013, 61, 83-93.	1.9	57
53	Regulation of the cardiac Na+ pump by palmitoylation of its catalytic and regulatory subunits. Biochemical Society Transactions, 2013, 41, 95-100.	3.4	24
54	A Separate Pool of Cardiac Phospholemman That Does Not Regulate or Associate with the Sodium Pump. Journal of Biological Chemistry, 2013, 288, 13808-13820.	3.4	29

#	ARTICLE	IF	CITATIONS
55	Cardiac Dysautonomia in Huntington's Disease. Journal of Huntington's Disease, 2013, 2, 251-261.	1.9	35
56	â€˜Autonomic conflictâ€™: a different way to die during cold water immersion?. Journal of Physiology, 2012, 590, 3219-3230.	2.9	180
57	Increased Cardiovascular Reactivity to Acute Stress and Salt-Loading in Adult Male Offspring of Fat Fed Non-Obese Rats. PLoS ONE, 2011, 6, e25250.	2.5	15
58	Prenylamine and the myocardial response to ischaemia and reperfusion: effects of acute and chronic treatment. Journal of Pharmacy and Pharmacology, 2011, 34, 255-258.	2.4	1
59	The Inhibitory Effect of Phospholemman on the Sodium Pump Requires Its Palmitoylation. Journal of Biological Chemistry, 2011, 286, 36020-36031.	3.4	68
60	Phospholemmanâ€dependent regulation of the cardiac Na/Kâ€ATPase activity is modulated by inhibitorâ€1 sensitive typeâ€1 phosphatase. FASEB Journal, 2011, 25, 4467-4475.	0.5	37
61	Non-steroidal anti-inflammatory drugs (NSAIDs) inhibit vascular smooth muscle cell proliferation via differential effects on the cell cycle. Journal of Pharmacy and Pharmacology, 2010, 55, 519-526.	2.4	40
62	The rate of loss of Tâ€tubules in cultured adult ventricular myocytes is species dependent. Experimental Physiology, 2010, 95, 518-527.	2.0	39
63	Esmolol cardioplegia: the cellular mechanism of diastolic arrest. Cardiovascular Research, 2010, 87, 552-560.	3.8	30
64	Phospholemman Ser69 phosphorylation contributes to sildenafil-induced cardioprotection against reperfusion injury. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 299, H827-H836.	3.2	39
65	FXYD1 phosphorylation in vitro and in adult rat cardiac myocytes: threonine 69 is a novel substrate for protein kinase C. American Journal of Physiology - Cell Physiology, 2009, 296, C1346-C1355.	4.6	66
66	Cell volume control in phospholemman (PLM) knockout mice: do cardiac myocytes demonstrate a regulatory volume decrease and is this influenced by deletion of PLM?. Experimental Physiology, 2009, 94, 330-343.	2.0	10
67	The role of the Na⁺/Ca²⁺ exchanger, I_{Na} and I_{CaL} in the genesis of dofetilideâ€induced torsades de pointes in isolated, AVâ€blocked rabbit hearts. British Journal of Pharmacology, 2009, 156, 920-932.	5.4	35
68	Phospholemman: its role in normal cardiac physiology and potential as a drugable target in disease. Current Opinion in Pharmacology, 2009, 9, 160-166.	3.5	37
69	Inhibition of Human Mesangial Cell Proliferation by Targeting T-Type Calcium Channels. Nephron Experimental Nephrology, 2009, 113, e77-e88.	2.2	12
70	Maternal dietary supplementation with saturated, but not monounsaturated or polyunsaturated fatty acids, leads to tissueâ€specific inhibition of offspring Na⁺,K⁺â€ATPase. Journal of Physiology, 2008, 586, 5013-5022.	2.9	12
71	Characterization of the phospholemman knockout mouse heart: depressed left ventricular function with increased Na-K-ATPase activity. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H613-H621.	3.2	42
72	Reperfusion kinase phosphorylation is essential but not sufficient in the mediation of pharmacological preconditioning: Characterisation in the bi-phasic profile of early and late protection. Cardiovascular Research, 2007, 73, 153-163.	3.8	21

#	Article	IF	Citations
73	Differential distribution and regulation of mouse cardiac Na+/K+-ATPase Î±1 and Î±2 subunits in T-tubule and surface sarcolemmal membranes. Cardiovascular Research, 2007, 73, 92-100.	3.8	90
74	The intracellular region of FXYD1 is sufficient to regulate cardiac Na/K ATPase. FASEB Journal, 2007, 21, 1539-1546.	0.5	45
75	Nitric oxide-induced stimulation of the cardiac Na/K ATPase requires phospholemman. Journal of Molecular and Cellular Cardiology, 2007, 42, S54.	1.9	1
76	ROLE OF p38-MITOGEN-ACTIVATED PROTEIN KINASE IN ISCHAEMIC PRECONDITIONING IN RAT HEART. Clinical and Experimental Pharmacology and Physiology, 2007, 35, 070924173348001-???.	1.9	23
77	Characterisation of the Langendorff-perfused phospholemman knockout mouse heart: Effects of calcium concentration and pacing rate on contractility. Journal of Molecular and Cellular Cardiology, 2006, 40, 996.	1.9	1
78	Regulation of cardiac Na/K ATPase by FXYD1 (phospholemman). Journal of Molecular and Cellular Cardiology, 2006, 40, 997.	1.9	2
79	Cardioprotection initiated by reactive oxygen species is dependent on activation of PKCÎµ. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H1893-H1899.	3.2	47
80	FCCP is cardioprotective at concentrations that cause mitochondrial oxidation without detectable depolarisation. Cardiovascular Research, 2006, 72, 322-330.	3.8	78
81	Mitochondrial uncoupling, with low concentration FCCP, induces ROS-dependent cardioprotection independent of KATP channel activation. Cardiovascular Research, 2006, 72, 313-321.	3.8	205
82	Phospholemman and the Cardiac Sodium Pump. Circulation Research, 2006, 99, 1290-1292.	4.5	8
83	Serine 68 phosphorylation of phospholemman: acute isoform-specific activation of cardiac Na/K ATPase. Cardiovascular Research, 2005, 65, 93-103.	3.8	108
84	Ischemic Preconditioning: A Potential Role for Protein S-Thiolation?. Antioxidants and Redox Signaling, 2005, 7, 882-888.	5.4	15
85	Pivotal role of NOXâ€2â€containing NADPH oxidase in early ischemic preconditioning. FASEB Journal, 2005, 19, 2037-2039.	0.5	86
86	Antimycin A induced cardioprotection is dependent on pre-ischemic p38-MAPK activation but independent of MKK3. Journal of Molecular and Cellular Cardiology, 2005, 39, 709-717.	1.9	18
87	Protein S-Thiolation: Emphasis on Cell Signaling and Gene Expression. Antioxidants and Redox Signaling, 2005, 7, 839-840.	5.4	1
88	Influence of isoprostane F2Î±-III on reflow after myocardial infarction. European Heart Journal, 2004, 25, 847-853.	2.2	10
89	Ischemiaâ€induced phosphorylation of phospholemman directly activates rat cardiac Na/K ATPase. FASEB Journal, 2004, 18, 197-199.	0.5	107
90	Evidence for a Novel K+ Channel Modulated by Î±1A-Adrenoceptors in Cardiac Myocytes. Molecular Pharmacology, 2004, 66, 735-748.	2.3	15

#	Article	IF	Citations
91	The role of voltage gated T-type Ca2+ channel isoforms in mediating â€œcapacitativeâ€•Ca2+ entry in cancer cells. Cell Calcium, 2004, 36, 489-497.	2.4	54
92	Mouse isolated perfused heart: Characteristics and cautions. Clinical and Experimental Pharmacology and Physiology, 2003, 30, 867-878.	1.9	79
93	Responses to ischaemia and reperfusion in the mouse isolated perfused heart and the phenomenon of 'contractile cycling'. Clinical and Experimental Pharmacology and Physiology, 2003, 30, 879-884.	1.9	7
94	Reversible Cysteine-Targeted Oxidation of Proteins during Renal Oxidative Stress. Journal of the American Society of Nephrology: JASN, 2003, 14, S290-S296.	6.1	53
95	Cardiac ischemia causes inhibition of the Na/K ATPase by a labile cytosolic compound whose production is linked to oxidant stress. Cardiovascular Research, 2003, 57, 1044-1051.	3.8	87
96	Is there a transient rise in sub-sarcolemmal Na and activation of Na/K pump current following activation of INa in ventricular myocardium?. Cardiovascular Research, 2003, 57, 1025-1034.	3.8	30
97	S-Thiolation of HSP27 Regulates Its Multimeric Aggregate Size Independently of Phosphorylation. Journal of Biological Chemistry, 2002, 277, 21189-21196.	3.4	65
98	Glyceraldehyde Phosphate Dehydrogenase Oxidation During Cardiac Ischemia and Reperfusion. Journal of Molecular and Cellular Cardiology, 2002, 34, 1549-1560.	1.9	116
99	Detection, Quantitation, Purification, and Identification of Cardiac Proteins S-Thiolated during Ischemia and Reperfusion. Journal of Biological Chemistry, 2002, 277, 9806-9811.	3.4	157
100	Effects of Endothelin-1 on K+ Currents from Rat Ventricular Myocytes. Biochemical and Biophysical Research Communications, 2001, 284, 1048-1055.	2.1	27
101	Î± B Crystallin Translocation and Phosphorylation: Signal Transduction Pathways and Preconditioning in the Isolated Rat Heart. Journal of Molecular and Cellular Cardiology, 2001, 33, 1659-1671.	1.9	54
102	Differential Centrifugation Separates Cardiac Sarcolemmal and Endosomal Membranes from Langendorff-Perfused Rat Hearts. Analytical Biochemistry, 2001, 293, 216-223.	2.4	40
103	Lipid hydroperoxide modification of proteins during myocardial ischaemia. Cardiovascular Research, 2001, 51, 294-303.	3.8	30
104	Lâ€ŧype calcium current of isolated rat cardiac myocytes in experimental uraemia. Nephrology Dialysis Transplantation, 2000, 15, 791-798.	0.7	19
105	Ischemic Preconditioning: a Potential Role for Constitutive Low Molecular Weight Stress Protein Translocation and Phosphorylation?. Journal of Molecular and Cellular Cardiology, 2000, 32, 961-971.	1.9	28
106	An Altered Repolarizing Potassium Current in Rat Cardiac Myocytes after Subtotal Nephrectomy. Journal of the American Society of Nephrology: JASN, 2000, 11, 1589-1599.	6.1	13
107	Long-term myocardial preservation: effects of hyperkalemia, sodium channel, and NA+/K+/2CL- cotransport inhibition on extracellular potassium accumulation during hypothermic storage. Journal of Thoracic and Cardiovascular Surgery, 1999, 118, 123-134.	0.8	11
108	Developmental Differences in Superoxide Production in Isolated Guinea-Pig Hearts During Reperfusion. Journal of Molecular and Cellular Cardiology, 1998, 30, 1391-1399.	1.9	13

#	Article	IF	Citations
109	Hypothermic preservation of isolated rat lungs in modified bicarbonate buffer, EuroCollins solution or St Thomas' Hospital cardioplegic solution. European Journal of Cardio-thoracic Surgery, 1998, 14, 508-515.	1.4	5
110	The Role of the Rate of Vascular Collapse in Ischemia-induced Acute Contractile Failure and Decreased Diastolic Stiffness. Journal of Molecular and Cellular Cardiology, 1996, 28, 519-529.	1.9	3
111	Ventricular Arrhythmias Induced by Ischaemiaâ€"Reperfusion are Unaffected by Myocardial Glutathione Depletion. Journal of Molecular and Cellular Cardiology, 1996, 28, 679-688.	1.9	8
112	Electrophysiological Characteristics of Repetitive Ischemic Preconditioning in the Pig Heart. Journal of Molecular and Cellular Cardiology, 1996, 28, 1339-1347.	1.9	47
113	Sodium pump current measured in cardiac ventricular myocytes isolated from control and potassium depleted rabbits. Cardiovascular Research, 1994, 28, 1854-1862.	3.8	6
114	Preconditioning and reperfusion arrhythmias in the isolated rat heart: true protection or temporal shift in vulnerability?. Cardiovascular Research, 1993, 27, 2274-2281.	3.8	22
115	KATP channel opening and cardioprotection - the authors' response. Cardiovascular Research, 1992, 26, 1156-1157.	3.8	0
116	"Publishers' dawdle" -- a case for treatment?. Cardiovascular Research, 1992, 26, 1-2.	3.8	2
117	Effects of potassium channel modulation during global ischaemia in isolated rat heart with and without cardioplegia. Cardiovascular Research, 1992, 26, 1063-1068.	3.8	62
118	Channel "selectivity" and evolution Has evolutionary pressure and natural selection provided the ATP sensitive potassium channel in the myocardium as an endogenous protection against ischaemic heart disease?. Cardiovascular Research, 1992, 26, 1153-1154.	3.8	2
119	Action potential duration and endocardial modulation of myocardial contraction in the ferret. Cardiovascular Research, 1992, 26, 376-378.	3.8	9
120	Measurement of Calcium Flux and Intracellular Sodium by Ion-Selective Microelectrodes. Methods in Neurosciences, 1991, 4, 278-300.	0.5	0
121	Differences in action potential configuration in ventricular trabeculae correlate with differences in density of transverse tubule-sarcoplasmic reticulum couplings. Journal of Molecular and Cellular Cardiology, 1988, 20, 539-546.	1.9	9
122	Two different electrophysiological responses toryanodine: Evidence for two populations of muscles isolated from the rabbit right ventricle. Journal of Molecular and Cellular Cardiology, 1987, 19, 751-762.	1.9	4
123	Two different metabolic responses to ischaemia: inherent variability or artefact?. Cardiovascular Research, 1983, 17, 489-498.	3.8	4
124	Limitations of the Isolated Papillary Muscle as an Experimental Model: A Metabolic, Functional and Ultrastructural Study. Clinical Science, 1983, 64, 4P-4P.	4.3	4
125	Long-term prenylamine therapy: Effects on responses to myocardial ischaemia in the isolated rat heart. European Journal of Pharmacology, 1982, 77, 33-38.	3.5	3
126	Effects of Hydrogen Peroxide on Cardiac Function and Post-Ischaemic Functional Recovery in the Isolated ‘Working’ Rat Heart. Pharmacology, 1982, 24, 118-122.	2.2	32

#	Article	IF	Citations
127	Long-term beta-blockade: prolonged protective action on the ischaemic myocardium. Cardiovascular Research, 1981, 15, 462-467.	3.8	7