

Wayne R Giles

List of Publications by Year in descending order

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67
papers

2,541
citations

270111

25
h-index

223390

49
g-index

69
all docs

69
docs citations

69
times ranked

3357
citing authors

#	ARTICLE	IF	CITATIONS
1	Editorial: Regulatory Mechanisms of Ca ²⁺ Activated Ion Channels and Their Impact on Physiological/Pathophysiological Function. <i>Frontiers in Physiology</i> , 2022, 13, 876327.	1.3	1
2	Frequency-Dependent Properties of the Hyperpolarization-Activated Cation Current, I _f , in Adult Mouse Heart Primary Pacemaker Myocytes. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4299.	1.8	1
3	A molecular complex of Ca ^v 1.2/CaMKK2/CaMK1a in caveolae is responsible for vascular remodeling via excitation–transcription coupling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2117435119.	3.3	15
4	Arrhythmogenic influence of mutations in a myocyte-based computational model of the pulmonary vein sleeve. <i>Scientific Reports</i> , 2022, 12, 7040.	1.6	4
5	Machine Learned Cellular Phenotypes in Cardiomyopathy Predict Sudden Death. <i>Circulation Research</i> , 2021, 128, 172-184.	2.0	35
6	Swelling-activated ClC-3 activity regulates prostaglandin E2 release in human OUMS-27 chondrocytes. <i>Biochemical and Biophysical Research Communications</i> , 2021, 537, 29-35.	1.0	7
7	Physiological Roles of the Rapidly Activated Delayed Rectifier K ⁺ Current in Adult Mouse Heart Primary Pacemaker Activity. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4761.	1.8	6
8	Immediate and Delayed Response of Simulated Human Atrial Myocytes to Clinically-Relevant Hypokalemia. <i>Frontiers in Physiology</i> , 2021, 12, 651162.	1.3	4
9	A computational method for identifying an optimal combination of existing drugs to repair the action potentials of SQT1 ventricular myocytes. <i>PLoS Computational Biology</i> , 2021, 17, e1009233.	1.5	5
10	Mechanisms of flecainide induced negative inotropy: An in silico study. <i>Journal of Molecular and Cellular Cardiology</i> , 2021, 158, 26-37.	0.9	2
11	The T-type Calcium Channel Cav3.1 in Y79 Retinoblastoma Cells is Regulated by the Epidermal Growth Factor Receptor via the MAPK Signaling Pathway. <i>Current Eye Research</i> , 2021, , 1-10.	0.7	3
12	Roles of LRRC26 as an auxiliary β 1-subunit of large-conductance Ca ²⁺ -activated K ⁺ channels in bronchial smooth muscle cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 318, L366-L375.	1.3	7
13	Populations of in silico myocytes and tissues reveal synergy of multiatrial ϵ -predominant K ⁺ current block in atrial fibrillation. <i>British Journal of Pharmacology</i> , 2020, 177, 4497-4515.	2.7	23
14	Computational translation of drug effects from animal experiments to human ventricular myocytes. <i>Scientific Reports</i> , 2020, 10, 10537.	1.6	9
15	Physiological Effects of the Electrogenic Current Generated by the Na ⁺ /K ⁺ Pump in Mammalian Articular Chondrocytes. <i>Bioelectricity</i> , 2020, 2, 258-268.	0.6	6
16	K ⁺ and Ca ²⁺ Channels Regulate Ca ²⁺ Signaling in Chondrocytes: An Illustrated Review. <i>Cells</i> , 2020, 9, 1577.	1.8	16
17	Transient outward K ⁺ current can strongly modulate action potential duration and initiate alternans in the human atrium. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 316, H527-H542.	1.5	20
18	ATP increases [Ca ²⁺] _i and activates a Ca ²⁺ -dependent Cl ⁻ current in rat ventricular fibroblasts. <i>Experimental Physiology</i> , 2018, 103, 666-682.	0.9	1

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19	Pro-arrhythmic effects of low plasma [K ⁺] in human ventricle: An illustrated review. <i>Trends in Cardiovascular Medicine</i> , 2018, 28, 233-242.	2.3	16
20	The Resting Potential and K ⁺ Currents in Primary Human Articular Chondrocytes. <i>Frontiers in Physiology</i> , 2018, 9, 974.	1.3	7
21	Hypoxic stress upregulates K ^{ir} 2.1 expression by a pathway including hypoxic-inducible factor-1 α and dynamin2 in brain capillary endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2018, 315, C202-C213.	2.1	10
22	HIF-1 α -dynamin2-Kir2.1 pathway contributes to cell proliferation in brain capillary endothelial cells under hypoxic stress. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, PO1-2-25.	0.0	0
23	Identification of a new splice variant of large-conductance Ca ²⁺ -activated K ⁺ (BK) channel β subunit from human chondrocyte. <i>FASEB Journal</i> , 2018, 32, 750.27.	0.2	0
24	A Mathematical Model of Plasma Membrane Electrophysiology of a Brain Capillary Pericyte: Investigating Pericyte Contribution to the Electrical Properties of the Capillary Network. <i>FASEB Journal</i> , 2018, 32, 712.10.	0.2	0
25	Ventricular Microanatomy, Arrhythmias, and the Electrochemical Driving Force for Na ⁺ . <i>Circulation: Arrhythmia and Electrophysiology</i> , 2017, 10, e004955.	2.1	0
26	No fuzzy space for intracellular Na ⁺ in healthy ventricular myocytes. <i>Journal of General Physiology</i> , 2017, 149, 683-687.	0.9	3
27	Cardiac action potential repolarization revisited: early repolarization shows all-or-none behaviour. <i>Journal of Physiology</i> , 2017, 595, 6599-6612.	1.3	23
28	Synergistic Anti-arrhythmic Effects in Human Atria with Combined Use of Sodium Blockers and Acacetin. <i>Frontiers in Physiology</i> , 2017, 8, 946.	1.3	58
29	Rigorous Phenotyping of Cardiac iPSC Preparations Requires Knowledge of Their Resting Potential(s). <i>Biophysical Journal</i> , 2016, 110, 278-280.	0.2	19
30	A computational model predicts adjunctive pharmacotherapy for cardiac safety via selective inhibition of the late cardiac Na current. <i>Journal of Molecular and Cellular Cardiology</i> , 2016, 99, 151-161.	0.9	22
31	A New Splice Variant of Large Conductance Ca ²⁺ -activated K ⁺ (BK) Channel β Subunit Alters Human Chondrocyte Function. <i>Journal of Biological Chemistry</i> , 2016, 291, 24247-24260.	1.6	22
32	Editorial commentary: This sodium current may be late, but it is important. <i>Trends in Cardiovascular Medicine</i> , 2016, 26, 123-125.	2.3	6
33	Changes in Intracellular Na ⁺ following Enhancement of Late Na ⁺ Current in Virtual Human Ventricular Myocytes. <i>PLoS ONE</i> , 2016, 11, e0167060.	1.1	7
34	Cardiac late Na ⁺ current: Proarrhythmic effects, roles in long QT syndromes, and pathological relationship to CaMKII and oxidative stress. <i>Heart Rhythm</i> , 2015, 12, 440-448.	0.3	125
35	Orai1/Orai2 complex is involved in store-operated calcium entry in chondrocyte cell lines. <i>Cell Calcium</i> , 2015, 57, 337-347.	1.1	41
36	A computational modelling approach combined with cellular electrophysiology data provides insights into the therapeutic benefit of targeting the late Na ⁺ current. <i>Journal of Physiology</i> , 2015, 593, 1429-1442.	1.3	22

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37	David Yue (1957–2014). <i>Journal of Physiology</i> , 2015, 593, 1325-1325.	1.3	0
38	The ClC-7 Chloride Channel Is Downregulated by Hypoosmotic Stress in Human Chondrocytes. <i>Molecular Pharmacology</i> , 2015, 88, 113-120.	1.0	29
39	Na ⁺ current expression in human atrial myofibroblasts: identity and functional roles. <i>Frontiers in Physiology</i> , 2014, 5, 275.	1.3	28
40	In silico assessment of drug safety in human heart applied to late sodium current blockers. <i>Channels</i> , 2013, 7, 249-262.	1.5	27
41	Ca ²⁺ Entry Through TRP-C Channels Regulates Fibroblast Biology in Chronic Atrial Fibrillation. <i>Circulation</i> , 2012, 126, 2039-2041.	1.6	13
42	Two-pore domain K ⁺ channels regulate membrane potential of isolated human articular chondrocytes. <i>Journal of Physiology</i> , 2011, 589, 5071-5089.	1.3	29
43	Repolarization of the mammalian heart action potential is modulated by changes in osmotic strength. <i>Cardiovascular Research</i> , 2011, 91, 376-377.	1.8	0
44	Measurement of the membrane potential in small cells using patch clamp methods. <i>Channels</i> , 2011, 5, 530-537.	1.5	33
45	Ionic mechanisms of electrophysiological properties and repolarization abnormalities in rabbit Purkinje fibers. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 300, H1806-H1813.	1.5	55
46	Voltage-gated K ⁺ currents in mouse articular chondrocytes regulate membrane potential. <i>Channels</i> , 2010, 4, 179-191.	1.5	24
47	Effects of Applied Stretch on Native and Recombinant Cardiac Na ⁺ Currents. , 2010, , 169-184.		1
48	Electrotonic Coupling between Human Atrial Myocytes and Fibroblasts Alters Myocyte Excitability and Repolarization. <i>Biophysical Journal</i> , 2009, 97, 2179-2190.	0.2	122
49	Natriuretic peptide C receptor signalling in the heart and vasculature. <i>Journal of Physiology</i> , 2008, 586, 353-366.	1.3	175
50	Contributions of HERG K^+ current to repolarization of the human ventricular action potential. <i>Progress in Biophysics and Molecular Biology</i> , 2008, 96, 357-376.	1.4	14
51	Mathematical simulations of ligand-gated and cell-type specific effects on the action potential of human atrium. <i>Progress in Biophysics and Molecular Biology</i> , 2008, 98, 161-170.	1.4	59
52	Spatial distributions of Kv4 channels and KChip2 isoforms in the murine heart based on laser capture microdissection. <i>Cardiovascular Research</i> , 2007, 73, 739-749.	1.8	35
53	A Mathematical Model of Electrotonic Interactions between Ventricular Myocytes and Fibroblasts. <i>Biophysical Journal</i> , 2007, 92, 4121-4132.	0.2	203
54	Evidence of intercellular coupling between co-cultured adult rabbit ventricular myocytes and myofibroblasts. <i>Journal of Physiology</i> , 2007, 583, 225-236.	1.3	129

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55	Hyposmotic Challenge Inhibits Inward Rectifying K + Channels in Cerebral Arterial Smooth Muscle Cells. <i>FASEB Journal</i> , 2007, 21, A520.	0.2	0
56	Cardiac fibroblasts: friend or foe?. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H1015-H1026.	1.5	367
57	Contributions of inwardly rectifying K + currents to repolarization assessed using mathematical models of human ventricular myocytes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006, 364, 1207-1222.	1.6	33
58	Comparison of contraction and calcium handling between right and left ventricular myocytes from adult mouse heart: a role for repolarization waveform. <i>Journal of Physiology</i> , 2006, 571, 131-146.	1.3	99
59	K+ Currents Activated by Depolarization in Cardiac Fibroblasts. <i>Biophysical Journal</i> , 2005, 88, 3924-3935.	0.2	76
60	A rapidly activating delayed rectifier K+ current regulates pacemaker activity in adult mouse sinoatrial node cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 286, H1757-H1766.	1.5	74
61	Changes in extracellular K+ concentration modulate contractility of rat and rabbit cardiac myocytes via the inward rectifier K+ current I _{K1} . <i>Journal of Physiology</i> , 2004, 556, 773-790.	1.3	44
62	Electrophysiological evidence for a gradient of G protein-gated K+ current in adult mouse atria. <i>British Journal of Pharmacology</i> , 2003, 140, 576-584.	2.7	51
63	Resting Membrane Potential Regulates Na + Ca ²⁺ Exchange-Mediated Ca ²⁺ Overload during Hypoxia-Reoxygenation in Rat Ventricular Myocytes. <i>Journal of Physiology</i> , 2003, 550, 889-898.	1.3	58
64	Mathematical Model of the Rapidly Activating Delayed Rectifier Potassium Current I _{Kr} in Rabbit Sinoatrial Node. <i>Journal of Cardiovascular Electrophysiology</i> , 2002, 13, 1131-1140.	0.8	16
65	Parasympathetic modulation of sinoatrial node pacemaker activity in rabbit heart: a unifying model. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999, 276, H2221-H2244.	1.5	69
66	The isolated working mouse heart: methodological considerations. <i>Pflugers Archiv European Journal of Physiology</i> , 1999, 437, 979-985.	1.3	55
67	A model of stimulus frequency effects on the rabbit atrial myocyte. , 1992, , .		0