

Derek S Steele

List of Publications by Year in descending order

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46
papers

1,424
citations

279701

23
h-index

330025

37
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48
all docs

48
docs citations

48
times ranked

2107
citing authors

#	ARTICLE	IF	CITATIONS
1	Flecainide inhibits arrhythmogenic Ca ²⁺ waves by open state block of ryanodine receptor Ca ²⁺ release channels and reduction of Ca ²⁺ spark mass. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 48, 293-301.	0.9	209
2	TNF- α and IL-1 β increase Ca ²⁺ leak from the sarcoplasmic reticulum and susceptibility to arrhythmia in rat ventricular myocytes. <i>Cell Calcium</i> , 2010, 47, 378-386.	1.1	132
3	Cardiac arrhythmia mechanisms in rats with heart failure induced by pulmonary hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H2381-H2395.	1.5	73
4	Carbon Monoxide Induces Cardiac Arrhythmia via Induction of the Late Na ⁺ Current. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2012, 186, 648-656.	2.5	72
5	Carbon monoxide: A vital signalling molecule and potent toxin in the myocardium. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 52, 359-365.	0.9	65
6	Store-operated Ca ²⁺ Entry in Malignant Hyperthermia-susceptible Human Skeletal Muscle. <i>Journal of Biological Chemistry</i> , 2010, 285, 25645-25653.	1.6	60
7	Alternative Splicing of Ryanodine Receptors Modulates Cardiomyocyte Ca ²⁺ Signaling and Susceptibility to Apoptosis. <i>Circulation Research</i> , 2007, 100, 874-883.	2.0	58
8	Decreased creatine kinase is linked to diastolic dysfunction in rats with right heart failure induced by pulmonary artery hypertension. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 86, 1-8.	0.9	40
9	Automated Detection and Analysis of Ca ²⁺ Sparks in x-y Image Stacks Using a Thresholding Algorithm Implemented within the Open-Source Image Analysis Platform ImageJ. <i>Biophysical Journal</i> , 2014, 106, 566-576.	0.2	38
10	Epac2-Rap1 Signaling Regulates Reactive Oxygen Species Production and Susceptibility to Cardiac Arrhythmias. <i>Antioxidants and Redox Signaling</i> , 2017, 27, 117-132.	2.5	36
11	Effects of cytosolic ATP on spontaneous and triggered Ca ²⁺ induced Ca ²⁺ release in permeabilised rat ventricular myocytes. <i>Journal of Physiology</i> , 2000, 523, 29-44.	1.3	35
12	Mechanisms of reduced SR Ca ²⁺ release induced by inorganic phosphate in rat skeletal muscle fibers. <i>American Journal of Physiology - Cell Physiology</i> , 2001, 281, C418-C429.	2.1	35
13	The Golgi apparatus is a functionally distinct Ca ²⁺ store regulated by the PKA and Epac branches of the β ₁ -adrenergic signaling pathway. <i>Science Signaling</i> , 2015, 8, ra101.	1.6	32
14	A Mechanism for Statin-Induced Susceptibility to Myopathy. <i>JACC Basic To Translational Science</i> , 2019, 4, 509-523.	1.9	31
15	Effects of creatine phosphate on Ca ²⁺ -regulation by the sarcoplasmic reticulum in mechanically skinned rat skeletal muscle fibres. <i>Journal of Physiology</i> , 1999, 517, 447-458.	1.3	30
16	The RyR2 central domain peptide DPc10 lowers the threshold for spontaneous Ca ²⁺ release in permeabilized cardiomyocytes. <i>Cardiovascular Research</i> , 2006, 70, 475-485.	1.8	29
17	Characteristics of Prolonged Ca ²⁺ Release Events Associated With the Nuclei in Adult Cardiac Myocytes. <i>Circulation Research</i> , 2005, 96, 82-90.	2.0	28
18	Effects of Cytosolic ATP on Ca ²⁺ Sparks and SR Ca ²⁺ Content in Permeabilized Cardiac Myocytes. <i>Circulation Research</i> , 2001, 89, 526-533.	2.0	26

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19	Characteristics of phosphate-induced Ca ²⁺ efflux from the SR in mechanically skinned rat skeletal muscle fibers. <i>American Journal of Physiology - Cell Physiology</i> , 2000, 278, C126-C135.	2.1	25
20	Interdependent effects of inorganic phosphate and creatine phosphate on sarcoplasmic reticulum Ca ²⁺ regulation in mechanically skinned rat skeletal muscle. <i>Journal of Physiology</i> , 2001, 531, 729-742.	1.3	25
21	DHPR activation underlies SR Ca ²⁺ release induced by osmotic stress in isolated rat skeletal muscle fibers. <i>Journal of General Physiology</i> , 2009, 133, 511-524.	0.9	25
22	Beta1-adrenoceptor antagonist, metoprolol attenuates cardiac myocyte Ca ²⁺ handling dysfunction in rats with pulmonary artery hypertension. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 120, 74-83.	0.9	25
23	Translocon closure to Ca ²⁺ leak in proliferating vascular smooth muscle cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 296, H910-H916.	1.5	23
24	A <i>RYR1</i> mutation associated with recessive congenital myopathy and dominant malignant hyperthermia in Asian families. <i>Muscle and Nerve</i> , 2009, 40, 633-639.	1.0	23
25	Effects of caffeine and adenine nucleotides on Ca ²⁺ release by the sarcoplasmic reticulum in saponin-permeabilized frog skeletal muscle fibres. <i>Journal of Physiology</i> , 1998, 513, 43-53.	1.3	21
26	The α -calcium sensitising TM effects of ORG30029 in saponin- or Triton ^o -skinned rat cardiac muscle. <i>British Journal of Pharmacology</i> , 1990, 100, 843-849.	2.7	19
27	Mg ²⁺ Dependence of Halothane-induced Ca ²⁺ Release from the Sarcoplasmic Reticulum in Skeletal Muscle from Humans Susceptible to Malignant Hyperthermia. <i>Anesthesiology</i> , 2004, 101, 1339-1346.	1.3	18
28	Inhibition of the Cardiac Na ⁺ Channel Nav1.5 by Carbon Monoxide. <i>Journal of Biological Chemistry</i> , 2014, 289, 16421-16429.	1.6	18
29	Effects of Mg ²⁺ and SR luminal Ca ²⁺ on caffeine-induced Ca ²⁺ release in skeletal muscle from humans susceptible to malignant hyperthermia. <i>Journal of Physiology</i> , 2002, 544, 85-95.	1.3	17
30	Defective Mg ²⁺ regulation of RyR1 as a causal factor in malignant hyperthermia. <i>Archives of Biochemistry and Biophysics</i> , 2007, 458, 57-64.	1.4	16
31	Mechanism of Antiarrhythmic Effects of Flecainide in Catecholaminergic Polymorphic Ventricular Tachycardia. <i>Circulation Research</i> , 2011, 109, 712-713.	2.0	16
32	Simvastatin activates single skeletal RyR1 channels but exerts more complex regulation of the cardiac RyR2 isoform. <i>British Journal of Pharmacology</i> , 2018, 175, 938-952.	2.7	16
33	Multiple mechanisms mediating carbon monoxide inhibition of the voltage-gated K ⁺ channel Kv1.5. <i>Cell Death and Disease</i> , 2017, 8, e3163-e3163.	2.7	15
34	Effects of phosphocreatine on SR Ca ²⁺ regulation in isolated saponin-permeabilized rat cardiac myocytes. <i>Journal of Physiology</i> , 2002, 539, 767-777.	1.3	14
35	Triple mode of action of flecainide in catecholaminergic polymorphic ventricular tachycardia. <i>Cardiovascular Research</i> , 2013, 98, 326-327.	1.8	13
36	Energy Metabolism in the Failing Right Ventricle: Limitations of Oxygen Delivery and the Creatine Kinase System. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1805.	1.8	13

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37	A key role for peroxynitrite-mediated inhibition of cardiac ERG (Kv11.1) K ⁺ channels in carbon monoxide-induced proarrhythmic early afterdepolarizations. <i>FASEB Journal</i> , 2017, 31, 4845-4854.	0.2	10
38	A correlative super-resolution protocol to visualise structural underpinnings of fast second-messenger signalling in primary cell types. <i>Methods</i> , 2021, 193, 27-37.	1.9	9
39	Mg ²⁺ dependence of halothane-induced Ca ²⁺ release from the sarcoplasmic reticulum in rat skeletal muscle. <i>Journal of Physiology</i> , 2003, 551, 447-454.	1.3	8
40	ATP-dependent effects of halothane on SR Ca regulation in permeabilized atrial myocytes. <i>Cardiovascular Research</i> , 2005, 65, 167-176.	1.8	8
41	Vascular Kv7 channels control intracellular Ca ²⁺ dynamics in smooth muscle. <i>Cell Calcium</i> , 2020, 92, 102283.	1.1	7
42	Deterministic and Stochastic Cellular Mechanisms Contributing to Carbon Monoxide Induced Ventricular Arrhythmias. <i>Frontiers in Pharmacology</i> , 2021, 12, 651050.	1.6	6
43	The presence of a functional t-tubule network increases the sensitivity of RyR1 to agonists in skinned rat skeletal muscle fibres. <i>Cell Calcium</i> , 2008, 44, 411-421.	1.1	3
44	Local signalling in myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 52, 295-297.	0.9	1
45	Carbon Monoxide Effects on Electrophysiological Mechanisms of Ventricular Arrhythmogenesis. , 0, , .		1
46	Corrigendum to: The RyR2 central domain peptide DPc10 lowers the threshold for spontaneous Ca ²⁺ release in permeabilized cardiomyocytes [<i>Cardiovascular Research</i> 70 (2006) 475-485]. <i>Cardiovascular Research</i> , 2006, 71, 606-606.	1.8	0