Susan Chalmers

List of Publications by Year
in descending order

34	1,616	394286	414303
papers	citations	19 h-index	32 g-index

35	35	35	2059
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Relationship between Free and Total Calcium Concentrations in the Matrix of Liver and Brain Mitochondria. Journal of Biological Chemistry, 2003, 278, 19062-19070.	1.6	338
2	The Integration of Mitochondrial Calcium Transport and Storage. Journal of Bioenergetics and Biomembranes, 2004, 36, 277-281.	1.0	132
3	Selective Uncoupling of Individual Mitochondria within a Cell Using a Mitochondria-Targeted Photoactivated Protonophore. Journal of the American Chemical Society, 2012, 134, 758-761.	6.6	115
4	From Structure to Function: Mitochondrial Morphology, Motion and Shaping in Vascular Smooth Muscle. Journal of Vascular Research, 2013, 50, 357-371.	0.6	103
5	Interactions between mitochondrial bioenergetics and cytoplasmic calcium in cultured cerebellar granule cells. Cell Calcium, 2003, 34, 407-424.	1.1	101
6	The mitochondrial membrane potential and Ca2+ oscillations in smooth muscle. Journal of Cell Science, 2008, 121, 75-85.	1.2	99
7	Ca2+ microdomains in smooth muscle. Cell Calcium, 2006, 40, 461-493.	1.1	82
8	IP3-mediated Ca2+increases do not involve the ryanodine receptor, but ryanodine receptor antagonists reduce IP3-mediated Ca2+increases in guinea-pig colonic smooth muscle cells. Journal of Physiology, 2005, 569, 533-544.	1.3	65
9	Mitochondrial Motility and Vascular Smooth Muscle Proliferation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 3000-3011.	1.1	58
10	MYC regulates fatty acid metabolism through a multigenic program in claudin-low triple negative breast cancer. British Journal of Cancer, 2020, 122, 868-884.	2.9	57
11	Origin and Mechanisms of Ca2+ Waves in Smooth Muscle as Revealed by Localized Photolysis of Caged Inositol 1,4,5-Trisphosphate. Journal of Biological Chemistry, 2004, 279, 8417-8427.	1.6	56
12	Ion channels in smooth muscle: Regulation by the sarcoplasmic reticulum and mitochondria. Cell Calcium, 2007, 42, 447-466.	1.1	54
13	Mitochondrial Ca2+ Uptake Increases Ca2+ Release from Inositol 1,4,5-Trisphosphate Receptor Clusters in Smooth Muscle Cells. Journal of Biological Chemistry, 2010, 285, 2040-2050.	1.6	48
14	Mitochondrial organization and Ca2+ uptake. Biochemical Society Transactions, 2012, 40, 158-167.	1.6	36
15	Agonistâ€evoked Ca²⁺ wave progression requires Ca²⁺ and IP₃. Journal of Cellular Physiology, 2010, 224, 334-344.	2.0	32
16	Age decreases mitochondrial motility and increases mitochondrial size in vascular smooth muscle. Journal of Physiology, 2016, 594, 4283-4295.	1.3	31
17	Multi-Omics Studies Demonstrate Toxoplasma gondii-Induced Metabolic Reprogramming of Murine Dendritic Cells. Frontiers in Cellular and Infection Microbiology, 2019, 9, 309.	1.8	25
18	Mitochondrial regulation of cytosolic Ca2+ signals in smooth muscle. Pflugers Archiv European Journal of Physiology, 2012, 464, 51-62.	1.3	23

#	Article	IF	Citations
19	Inhibition of mitochondrial calcium uptake rather than efflux impedes calcium release by inositol-1,4,5-trisphosphate-sensitive receptors. Cell Calcium, 2009, 46, 107-113.	1.1	20
20	`Quantal' Ca2+ release at the cytoplasmic aspect of the Ins(1,4,5)P3R channel in smooth muscle. Journal of Cell Science, 2008, 121, 86-98.	1.2	16
21	Examining the Role of Mitochondria in Ca²⁺ Signaling in Native Vascular Smooth Muscle. Microcirculation, 2013, 20, 317-329.	1.0	16
22	Flicker-assisted localization microscopy reveals altered mitochondrial architecture in hypertension. Scientific Reports, 2015, 5, 16875.	1.6	16
23	RPGR protein complex regulates proteasome activity and mediates store-operated calcium entry. Oncotarget, 2018, 9, 23183-23197.	0.8	16
24	The Sarcoplasmic Reticulum, Ca2+ Trapping, and Wave Mechanisms in Smooth Muscle. Physiology, 2004, 19, 138-147.	1.6	14
25	Microdomains of muscarinic acetylcholine and InsP3 receptors create InsP3 junctions and sites of Ca2+ wave initiation in smooth muscle. Journal of Cell Science, 2012, 125, 5315-28.	1.2	13
26	Sunitinib and Imatinib Display Differential Cardiotoxicity in Adult Rat Cardiac Fibroblasts That Involves a Role for Calcium/Calmodulin Dependent Protein Kinase II. Frontiers in Cardiovascular Medicine, 2020, 7, 630480.	1.1	11
27	Caged AG10: new tools for spatially predefined mitochondrial uncoupling. Molecular BioSystems, 2009, 5, 450.	2.9	10
28	Subplasma membrane Ca 2+ signals. IUBMB Life, 2012, 64, 573-585.	1.5	10
29	Ins(1,4,5)P3 receptor regulation during â€˜quantalâ€™ Ca2+ release in smooth muscle. Trends in Pharmacological Sciences, 2007, 28, 271-279.	4.0	9
30	23 Mitochondrial motility and vascular smooth muscle proliferation. Heart, 2011, 97, e8-e8.	1.2	4
31	Synthesis of an azido-tagged low affinity ratiometric calcium sensor. Tetrahedron, 2015, 71, 9571-9578.	1.0	4
32	Single Cell and Subcellular Measurements of Intracellular Ca2+ Concentration. Methods in Molecular Biology, 2013, 937, 239-251.	0.4	1
33	Calcium Mobilization via Intracellular Ion Channels, Store Organization and Mitochondria in Smooth Muscle. , 2016, , 233-254.		1
34	In Smooth Muscle, Mitochondrial Movement is Restricted in Native Cells and Unrestricted and Trafficked When Cells are in Culture. Biophysical Journal, 2010, 98, 297a.	0.2	0