H Llewelyn Roderick

List of Publications by Year
in descending order

102 papers	13,998 citations	71004 43 h-index	45040 94 g-index
108 all docs	108 docs citations	108 times ranked	20207 citing authors

#	Article	IF	Citations
1	Calcium signalling: dynamics, homeostasis and remodelling. Nature Reviews Molecular Cell Biology, 2003, 4, 517-529.	16.1	4,720
2	Autophagosome formation from membrane compartments enriched in phosphatidylinositol 3-phosphate and dynamically connected to the endoplasmic reticulum. Journal of Cell Biology, 2008, 182, 685-701.	2.3	1,588
3	2â€Aminoethoxydiphenyl borate (2â€APB) is a reliable blocker of storeâ€operated Ca2+entry but an inconsistent inhibitor of InsP3â€induced Ca2+release. FASEB Journal, 2002, 16, 1145-1150.	0.2	668
4	Ca2+ signalling checkpoints in cancer: remodelling Ca2+ for cancer cell proliferation and survival. Nature Reviews Cancer, 2008, 8, 361-375.	12.8	600
5	Bcl-2 functionally interacts with inositol 1,4,5-trisphosphate receptors to regulate calcium release from the ER in response to inositol 1,4,5-trisphosphate. Journal of Cell Biology, 2004, 166, 193-203.	2.3	366
6	ERp57 Functions as a Subunit of Specific Complexes Formed with the ER Lectins Calreticulin and Calnexin. Molecular Biology of the Cell, 1999, 10, 2573-2582.	0.9	293
7	Calcium Phosphate Crystals Induce Cell Death in Human Vascular Smooth Muscle Cells. Circulation Research, 2008, 103, e28-34.	2.0	280
8	Calcium Signalling: More Messengers, More Channels, More Complexity. Current Biology, 2002, 12, R563-R565.	1.8	261
9	The BH4 domain of Bcl-2 inhibits ER calcium release and apoptosis by binding the regulatory and coupling domain of the IP3 receptor. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14397-14402.	3.3	258
10	2-Aminoethoxydiphenyl borate (2-APB) antagonises inositol 1,4,5-trisphosphate-induced calcium release, inhibits calcium pumps and has a use-dependent and slowly reversible action on store-operated calcium entry channels. Cell Calcium, 2003, 34, 97-108.	1.1	248
11	Phosphorylation of inositol 1,4,5-trisphosphate receptors by protein kinase B/Akt inhibits Ca ²⁺ release and apoptosis. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2427-2432.	3.3	238
12	Targeting Bcl-2-IP3 Receptor Interaction to Reverse Bcl-2's Inhibition of Apoptotic Calcium Signals. Molecular Cell, 2008, 31, 255-265.	4.5	225
13	Cytosolic Phosphorylation of Calnexin Controls Intracellular Ca2+ Oscillations via an Interaction with Serca2b. Journal of Cell Biology, 2000, 149, 1235-1248.	2.3	221
14	Calcium Signaling in Cardiac Myocytes. Cold Spring Harbor Perspectives in Biology, 2011, 3, a004242-a004242.	2.3	206
15	An update on nuclear calcium signalling. Journal of Cell Science, 2009, 122, 2337-2350.	1.2	180
16	Emerging roles of inositol 1,4,5-trisphosphate signaling in cardiac myocytes. Journal of Molecular and Cellular Cardiology, 2008, 45, 128-147.	0.9	177
17	XTRPC1-dependent chemotropic guidance of neuronal growth cones. Nature Neuroscience, 2005, 8, 730-735.	7.1	151
18	Regulation of InsP3 receptor activity by neuronal Ca2+-binding proteins. EMBO Journal, 2004, 23, 312-321.	3.5	149

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19	The spatial pattern of atrial cardiomyocyte calcium signalling modulates contraction. Journal of Cell Science, 2004, 117, 6327-6337.	1.2	137
20	Calcium signalling during excitation-contraction coupling in mammalian atrial myocytes. Journal of Cell Science, 2006, 119, 3915-3925.	1.2	132
21	Endothelin-1-Stimulated InsP3-Induced Ca2+ Release Is a Nexus for Hypertrophic Signaling in Cardiac Myocytes. Molecular Cell, 2009, 33, 472-482.	4.5	130
22	Myofibroblast Phenotype and Reversibility of Fibrosis in Patients With End-Stage Heart Failure. Journal of the American College of Cardiology, 2019, 73, 2267-2282.	1.2	119
23	Increased InsP ₃ Rs in the junctional sarcoplasmic reticulum augment Ca ²⁺ transients and arrhythmias associated with cardiac hypertrophy. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11406-11411.	3.3	114
24	Cell Signalling: IP3 Receptors Channel Calcium into Cell Death. Current Biology, 2004, 14, R933-R935.	1.8	113
25	Inositol 1,4,5-trisphosphate supports the arrhythmogenic action of endothelin-1 on ventricular cardiac myocytes. Journal of Cell Science, 2006, 119, 3363-3375.	1.2	109
26	Calcium-induced calcium release. Current Biology, 2003, 13, R425.	1.8	107
27	The H3K9 dimethyltransferases EHMT1/2 protect against pathological cardiac hypertrophy. Journal of Clinical Investigation, 2016, 127, 335-348.	3.9	99
28	Comparison of the T-tubule system in adult rat ventricular and atrial myocytes, and its role in excitationâ€“contraction coupling and inotropic stimulation. Cell Calcium, 2010, 47, 210-223.	1.1	97
29	The Proapoptotic Factors Bax and Bak Regulate T Cell Proliferation through Control of Endoplasmic Reticulum Ca2+ Homeostasis. Immunity, 2007, 27, 268-280.	6.6	92
30	Bcl-2 suppresses Ca2+ release through inositol 1,4,5-trisphosphate receptors and inhibits Ca2+ uptake by mitochondria without affecting ER calcium store content. Cell Calcium, 2008, 44, 324-338.	1.1	92
31	The Primary Substrate Binding Site in the bâ€² Domain of ERp57 Is Adapted for Endoplasmic Reticulum Lectin Association. Journal of Biological Chemistry, 2004, 279, 18861-18869.	1.6	88
32	Atrial cardiomyocyte calcium signalling. Biochimica Et Biophysica Acta - Molecular Cell Research, 2011, 1813, 922-934.	1.9	84
33	Mutual antagonism between IP3RII and miRNA-133a regulates calcium signals and cardiac hypertrophy. Journal of Cell Biology, 2012, 199, 783-798.	2.3	80
34	The role of the paracrine/autocrine mediator endothelinâ€1 in regulation of cardiac contractility and growth. British Journal of Pharmacology, 2013, 168, 296-317.	2.7	75
35	CAPRI and RASAL impose different modes of information processing on Ras due to contrasting temporal filtering of Ca2+. Journal of Cell Biology, 2005, 170, 183-190.	2.3	74
36	Oncogenic K-Ras suppresses IP3-dependent Ca2+ release through remodeling of IP3Rs isoform composition and ER luminal Ca2+ levels in colorectal cancer cell lines. Journal of Cell Science, 2014, 127, 1607-19.	1.2	63

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37	Subcellular calcium dynamics in a whole-cell model of an atrial myocyte. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2150-2155.	3.3	60
38	Global fibroblast activation throughout the left ventricle but localized fibrosis after myocardial infarction. Scientific Reports, 2017, 7, 10801.	1.6	59
39	Calcium Signaling in Cardiomyocyte Function. Cold Spring Harbor Perspectives in Biology, 2020, 12, a035428.	2.3	58
40	Endothelin-1 promotes hypertrophic remodelling of cardiac myocytes by activating sustained signalling and transcription downstream of endothelin type A receptors. Cellular Signalling, 2017, 36, 240-254.	1.7	48
41	Characterization of an N-system Amino Acid Transporter Expressed in Retina and Its Involvement in Glutamine Transport. Journal of Biological Chemistry, 2001, 276, 24137-24144.	1.6	47
42	Hyperactive ryanodine receptors in human heart failure and ischaemic cardiomyopathy reside outside of couplons. Cardiovascular Research, 2018, 114, 1512-1524.	1.8	47
43	Glucocorticoid-mediated Inhibition of Lck Modulates the Pattern of T Cell Receptor-induced Calcium Signals by Down-regulating Inositol 1,4,5-Trisphosphate Receptors. Journal of Biological Chemistry, 2009, 284, 31860-31871.	1.6	46
44	Critical Role of Phospholipase CÎ³1 in the Generation of H2O2-evoked [Ca2+] Oscillations in Cultured Rat Cortical Astrocytes. Journal of Biological Chemistry, 2006, 281, 13057-13067.	1.6	43
45	Exposure to GSM RF Fields Does Not Affect Calcium Homeostasis in Human Endothelial Cells, Rat Pheocromocytoma Cells or Rat Hippocampal Neurons. PLoS ONE, 2010, 5, e11828.	1.1	42
46	Intra-axonal calcium changes after axotomy in wild-type and slow Wallerian degeneration axons. Neuroscience, 2012, 225, 44-54.	1.1	41
47	Role of calreticulin in regulating intracellular Ca2+ storage and capacitative Ca2+ entry in HeLa cells. Cell Calcium, 1998, 24, 253-262.	1.1	40
48	Calcium Oscillations. Advances in Experimental Medicine and Biology, 2008, 641, 1-27.	0.8	40
49	Inhibition of aquaporin-1 prevents myocardial remodeling by blocking the transmembrane transport of hydrogen peroxide. Science Translational Medicine, 2020, 12, .	5.8	39
50	Calmidazolium and arachidonate activate a calcium entry pathway that is distinct from store-operated calcium influx in HeLa cells. Biochemical Journal, 2004, 381, 929-939.	1.7	38
51	The cellular concentration of Bcl-2 determines its pro- or anti-apoptotic effect. Cell Calcium, 2008, 44, 243-258.	1.1	38
52	Alzheimer's disease-associated peptide AÎ²42 mobilizes ER Ca2+ via InsP3R-dependent and -independent mechanisms. Frontiers in Molecular Neuroscience, 2013, 6, 36.	1.4	37
53	Epigenetics in the heart: the role of histone modifications in cardiac remodelling. Biochemical Society Transactions, 2013, 41, 789-796.	1.6	34
54	Elevated InsP₃R expression underlies enhanced calcium fluxes and spontaneous extra-systolic calcium release events in hypertrophic cardiac myocytes. Channels, 2010, 4, 67-71.	1.5	33

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55	Calcium/calmodulinâ€dependent kinase II and nitric oxide synthase 1â€dependent modulation of ryanodine receptors during Î²â€adrenergic stimulation is restricted to the dyadic cleft. Journal of Physiology, 2016, 594, 5923-5939.	1.3	33
56	CREBâ€dependent Nur77 induction following depolarization in PC12 cells and neurons is modulated by MEF2 transcription factors. Journal of Neurochemistry, 2010, 112, 1065-1073.	2.1	31
57	Defective chemoattractant-induced calcium signalling in S100A9 null neutrophils. Cell Calcium, 2007, 41, 107-121.	1.1	28
58	Temporal changes in atrial EC-coupling during prolonged stimulation with endothelin-1. Cell Calcium, 2007, 42, 489-501.	1.1	28
59	Activating calcium release through inositol 1,4,5-trisphosphate receptors without inositol 1,4,5-trisphosphate. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 7320-7322.	3.3	24
60	Calcium in the heart: when it's good, it's very very good, but when it's bad, it's horrid. Biochemical Society Transactions, 2007, 35, 957-961.	1.6	24
61	Inositol 1,4,5-trisphosphate receptors in the heart. Biological Research, 2004, 37, 553-7.	1.5	24
62	Pacemaking, arrhythmias, inotropy and hypertrophy: the many possible facets of IP3signalling in cardiac myocytes. Journal of Physiology, 2007, 581, 883-884.	1.3	21
63	Genes encoding ACE2, TMPRSS2 and related proteins mediating SARS-CoV-2 viral entry are upregulated with age in human cardiomyocytes. Journal of Molecular and Cellular Cardiology, 2020, 147, 88-91.	0.9	21
64	Ventricular Arrhythmias in Ischemic Cardiomyopathyâ€"New Avenues for Mechanism-Guided Treatment. Cells, 2021, 10, 2629.	1.8	21
65	Oncogenic KRAS suppresses store-operated Ca 2+ entry and I CRAC through ERK pathway-dependent remodelling of STIM expression in colorectal cancer cell lines. Cell Calcium, 2018, 72, 70-80.	1.1	20
66	Altered adrenergic response in myocytes bordering a chronic myocardial infarction underlies in vivo triggered activity and repolarization instability. Journal of Physiology, 2020, 598, 2875-2895.	1.3	20
67	Contractile responses to endothelin-1 are regulated by PKC phosphorylation of cardiac myosin binding protein-C in rat ventricular myocytes. Journal of Molecular and Cellular Cardiology, 2018, 117, 1-18.	0.9	19
68	ER Ca2+ release and store-operated Ca2+ entry â€" partners in crime or independent actors in oncogenic transformation?. Cell Calcium, 2019, 82, 102061.	1.1	18
69	Synthesis and Biological Action of Novel 4-Position-Modified Derivatives ofd-myo-Inositol 1,4,5-Trisphosphate. Journal of Organic Chemistry, 2007, 72, 5647-5659.	1.7	17
70	Interaction between store-operated and arachidonate-activated calcium entry. Cell Calcium, 2007, 41, 1-12.	1.1	17
71	Discrete sites of frequent premature ventricular complexes cluster within the infarct border zone and coincide with high frequency of delayed afterdepolarizations under adrenergic stimulation. Heart Rhythm, 2021, 18, 1976-1987.	0.3	16
72	Methacholine and PDGF activate store-operated calcium entry in neuronal precursor cells via distinct calcium entry channels. Biological Research, 2008, 41, 183-95.	1.5	14

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73	Redoxing Calcium from the ER. Cell, 2005, 120, 4-5.	13.5	13
74	Ca2+ Release via IP3 Receptors Shapes the Cardiac Ca2+ Transient for Hypertrophic Signaling. Biophysical Journal, 2020, 119, 1178-1192.	0.2	13
75	The Synthesis of Membrane Permeant Derivatives of myo-Inositol 1,4,5-Trisphosphate. Australian Journal of Chemistry, 2006, 59, 887.	0.5	12
76	Why, where, and when do cardiac myocytes express inositol 1,4,5-trisphosphate receptors?. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H579-H581.	1.5	12
77	Calcium Influx: Is Homer the Missing Link?. Current Biology, 2003, 13, R976-R978.	1.8	11
78	Activin A Modulates CRIPTO-1/HNF4<i>Î±</i>⁺Cells to Guide Cardiac Differentiation from Human Embryonic Stem Cells. Stem Cells International, 2017, 2017, 1-17.	1.2	11
79	Ca2+ release via InsP3Rs enhances RyR recruitment during Ca2+ transients by increasing dyadic [Ca2+] in cardiomyocytes. Journal of Cell Science, 2021, 134, .	1.2	10
80	Incomplete Assembly of the Dystrophin-Associated Protein Complex in 2D and 3D-Cultured Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes. Frontiers in Cell and Developmental Biology, 2021, 9, 737840.	1.8	10
81	The JAK3 inhibitor WHI-P154 prevents PDGF-evoked process outgrowth in human neural precursor cells. Journal of Neurochemistry, 2006, 97, 201-210.	2.1	9
82	Quantitative proteomics and systems analysis of cultured H9C2 cardiomyoblasts during differentiation over time supports a â€˜function follows formâ€™ model of differentiation. Molecular Omics, 2018, 14, 181-196.	1.4	9
83	Assessing Cardiomyocyte Excitation-Contraction Coupling Site Detection From Live Cell Imaging Using a Structurally-Realistic Computational Model of Calcium Release. Frontiers in Physiology, 2019, 10, 1263.	1.3	8
84	Using Calcium Imaging as a Readout of GPCR Activation. Methods in Molecular Biology, 2011, 746, 277-296.	0.4	8
85	MSK-Mediated Phosphorylation of Histone H3 Ser28 Couples MAPK Signalling with Early Gene Induction and Cardiac Hypertrophy. Cells, 2022, 11, 604.	1.8	8
86	Inositol 1,4,5-Trisphosphate Receptors. Circulation, 2013, 128, 1273-1275.	1.6	7
87	Lncâ€™ing Ca 2+ , SERCA and cardiac disease. Cell Calcium, 2018, 72, 132-134.	1.1	7
88	Dynamic imaging of calcium and STIM1 in the same cell using wide-field and TIRF microscopy. BioTechniques, 2008, 45, 347-348.	0.8	6
89	Intracellular Calcium Signaling. , 2010, , 937-942.		5
90	Epigenetics in atrial fibrillation: A reappraisal. Heart Rhythm, 2021, 18, 824-832.	0.3	4

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91	Calnexin and Calreticulin, ER Associated Modulators of Calcium Transport in the ER. Molecular Biology Intelligence Unit, 2003, , 126-132.	0.2	3
92	The cardiomyocyte firestarterâ€"RyR clusters ignite their neighbours after augmentation of Ca²⁺ release by Î²â€stimulation. Acta Physiologica, 2022, 234, e13798.	1.8	2
93	Intracellular Calcium Signaling. , 2003, , 51-56.		1
94	New Ca2+ Indicator has Freedom to Express. Chemistry and Biology, 2006, 13, 463-464.	6.2	1
95	IP3 Receptors in Heart Failure: Arrhythmogenic Troublemakers or SR Calcium Security Valves?. Biophysical Journal, 2012, 102, 101a.	0.2	1
96	Mutual antagonism between IP3RII and miRNA-133a regulates calcium signals and cardiac hypertrophy. Journal of General Physiology, 2013, 141, i1-i1.	0.9	1
97	The Endoplasmic Reticulum: A Central Player in Cell Signalling and Protein Synthesis. Lecture Notes in Physics, 0, , 17-35.	0.3	0
98	Calcium Signalling; Messengers, Transport Pathways, Sensors, and Physiological Outcomes. , 2010, , 885-886.		0
99	InsP3R Activation Facilitates Ca2+ Wave Propagation in Ventricular Myocytes. Biophysical Journal, 2014, 106, 532a.	0.2	0
100	Detecting RyR Clusters with CaCLEAN: Validation and Influence of Spatial Heterogeneity. Biophysical Journal, 2019, 116, 42a-43a.	0.2	0
101	Mitochondrial Ca2+ laMety directs fibrosis. Cell Calcium, 2020, 86, 102155.	1.1	0
102	Killing in the name of: Reversing epigenetic silencing of ITPR3 to succumb cancer cellsâ€™ resistance to chemotherapeutics. Cell Calcium, 2022, 102, 102526.	1.1	0