

Derek R Laver

List of Publications by Year in descending order

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62
papers

2,804
citations

201575

27
h-index

175177

52
g-index

62
all docs

62
docs citations

62
times ranked

2765
citing authors

#	ARTICLE	IF	CITATIONS
1	Flecainide prevents catecholaminergic polymorphic ventricular tachycardia in mice and humans. <i>Nature Medicine</i> , 2009, 15, 380-383.	15.2	539
2	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
3	Calsequestrin Is an Inhibitor of Skeletal Muscle Ryanodine Receptor Calcium Release Channels. <i>Biophysical Journal</i> , 2002, 82, 310-320.	0.2	145
4	Inhibition of Cardiac Ca ²⁺ Release Channels (RyR2) Determines Efficacy of Class I Antiarrhythmic Drugs in Catecholaminergic Polymorphic Ventricular Tachycardia. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2011, 4, 128-135.	2.1	137
5	Ca ²⁺ Stores Regulate Ryanodine Receptor Ca ²⁺ Release Channels via Luminal and Cytosolic Ca ²⁺ Sites. <i>Biophysical Journal</i> , 2007, 92, 3541-3555.	0.2	126
6	Divergent Regulation of Ryanodine Receptor 2 Calcium Release Channels by Arrhythmogenic Human Calmodulin Missense Mutants. <i>Circulation Research</i> , 2014, 114, 1114-1124.	2.0	126
7	Mammalian TRP ion channels are insensitive to membrane stretch. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	105
8	Regulation of Ryanodine Receptors by Calsequestrin: Effect of High Luminal Ca ²⁺ and Phosphorylation. <i>Biophysical Journal</i> , 2005, 88, 3444-3454.	0.2	100
9	Activation and Inhibition of Skeletal RyR Channels by a Part of the Skeletal DHPR II-III Loop: Effects of DHPR Ser 687 and FKBP12. <i>Biophysical Journal</i> , 1999, 77, 189-203.	0.2	82
10	Luminal Ca ²⁺ regulated Mg ²⁺ Inhibition of Skeletal RyRs Reconstituted as Isolated Channels or Coupled Clusters. <i>Journal of General Physiology</i> , 2004, 124, 741-758.	0.9	65
11	Essential Role of Calmodulin in RyR Inhibition by Dantrolene. <i>Molecular Pharmacology</i> , 2015, 88, 57-63.	1.0	64
12	Luminal Mg ²⁺ , A Key Factor Controlling RYR2-mediated Ca ²⁺ Release: Cytoplasmic and Luminal Regulation Modeled in a Tetrameric Channel. <i>Journal of General Physiology</i> , 2008, 132, 429-446.	0.9	63
13	Ca ²⁺ STORES REGULATE RYANODINE RECEPTOR Ca ²⁺ RELEASE CHANNELS VIA LUMINAL AND CYTOSOLIC Ca ²⁺ SITES. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2007, 34, 889-896.	0.9	62
14	Generation and propagation of gastric slow waves. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2010, 37, 516-524.	0.9	62
15	RYR2 Channel Inhibition Is the Principal Mechanism of Flecainide Action in CPVT. <i>Circulation Research</i> , 2021, 128, 321-331.	2.0	56
16	Amyloid- β protein impairs Ca ²⁺ release and contractility in skeletal muscle. <i>Neurobiology of Aging</i> , 2010, 31, 2080-2090.	1.5	52
17	Characteristics of Irreversible ATP Activation Suggest that Native Skeletal Ryanodine Receptors Can Be Phosphorylated via an Endogenous CaMKII. <i>Biophysical Journal</i> , 2001, 81, 3240-3252.	0.2	47
18	Regulation of the RyR channel gating by Ca ²⁺ and Mg ²⁺ . <i>Biophysical Reviews</i> , 2018, 10, 1087-1095.	1.5	47

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19	Functional Characterization of Native, High-Affinity GABAA Receptors in Human Pancreatic \hat{I}^2 Cells. <i>EBioMedicine</i> , 2018, 30, 273-282.	2.7	42
20	Whole-cell and single-channel currents across the plasmalemma of corn shoot suspension cells. <i>Journal of Membrane Biology</i> , 1991, 121, 11-22.	1.0	38
21	\hat{A} -Adrenergic Stimulation Increases RyR2 Activity via Intracellular Ca^{2+} and Mg^{2+} Regulation. <i>PLoS ONE</i> , 2013, 8, e58334.	1.1	37
22	Multiple Modes of Ryanodine Receptor 2 Inhibition by Flecainide. <i>Molecular Pharmacology</i> , 2014, 86, 696-706.	1.0	35
23	Regulation of the Calcium Release Channel from Skeletal Muscle by Suramin and the Disulfonated Stilbene Derivatives DIDS, DBDS, and DNDS. <i>Biophysical Journal</i> , 2003, 84, 1674-1689.	0.2	34
24	Phosphate ion channels in sarcoplasmic reticulum of rabbit skeletal muscle. <i>Journal of Physiology</i> , 2001, 535, 715-728.	1.3	30
25	Luminal Ca^{2+} activation of cardiac ryanodine receptors by luminal and cytoplasmic domains. <i>European Biophysics Journal</i> , 2009, 39, 19-26.	1.2	29
26	The emerging role of calmodulin regulation of RyR2 in controlling heart rhythm, the progression of heart failure and the antiarrhythmic action of dantrolene. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2017, 44, 135-142.	0.9	29
27	ATP Inhibition and Rectification of a Ca^{2+} -Activated Anion Channel in Sarcoplasmic Reticulum of Skeletal Muscle. <i>Biophysical Journal</i> , 1998, 74, 2335-2351.	0.2	27
28	Extraction of Sub-microscopic Ca Fluxes from Blurred and Noisy Fluorescent Indicator Images with a Detailed Model Fitting Approach. <i>PLoS Computational Biology</i> , 2013, 9, e1002931.	1.5	27
29	SR Ca^{2+} store refillâ€”a key factor in cardiac pacemaking. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 49, 412-426.	0.9	26
30	Pharmacological Approaches That Slow Lymphatic Flow As a Snakebite First Aid. <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e2722.	1.3	25
31	Coupled calcium release channels and their regulation by luminal and cytosolic ions. <i>European Biophysics Journal</i> , 2005, 34, 359-368.	1.2	24
32	Amitriptyline Activates Cardiac Ryanodine Channels and Causes Spontaneous Sarcoplasmic Reticulum Calcium Release. <i>Molecular Pharmacology</i> , 2009, 75, 183-195.	1.0	24
33	Interpretation of substates in ion channels: Unipores or multipores?. <i>Progress in Biophysics and Molecular Biology</i> , 1997, 67, 99-140.	1.4	21
34	REGULATION OF RYANODINE RECEPTORS FROM SKELETAL AND CARDIAC MUSCLE DURING REST AND EXCITATION. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2006, 33, 1107-1113.	0.9	20
35	Differences in the regulation of RyR2 from human, sheep, and rat by Ca^{2+} and Mg^{2+} in the cytoplasm and in the lumen of the sarcoplasmic reticulum. <i>Journal of General Physiology</i> , 2014, 144, 263-271.	0.9	20
36	Single mechanically-gated cation channel currents can trigger action potentials in neocortical and hippocampal pyramidal neurons. <i>Brain Research</i> , 2015, 1608, 1-13.	1.1	20

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37	Calmodulin inhibition of human RyR2 channels requires phosphorylation of RyR2-S2808 or RyR2-S2814. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 130, 96-106.	0.9	19
38	Three independent mechanisms contribute to tetracaine inhibition of cardiac calcium release channels. <i>Journal of Molecular and Cellular Cardiology</i> , 2011, 51, 357-369.	0.9	18
39	Protein interactions involving the \hat{I}^32 large cytoplasmic loop of GABA _A receptors modulate conductance. <i>FASEB Journal</i> , 2009, 23, 4361-4369.	0.2	17
40	Regulation of skeletal ryanodine receptors by dihydropyridine receptor \hat{I}^{III} loop C-region peptides: relief of Mg ²⁺ inhibition. <i>Biochemical Journal</i> , 2005, 387, 429-436.	1.7	16
41	Polarized and persistent Ca ²⁺ plumes define loci for formation of wall ingrowth papillae in transfer cells. <i>Journal of Experimental Botany</i> , 2015, 66, 1179-1190.	2.4	15
42	The mechanism of SR95531 inhibition at GABAA receptors examined in human $\hat{I}^1\hat{I}^1$ and $\hat{I}^1\hat{I}^2\hat{I}^32S$ receptors. <i>Journal of Neurochemistry</i> , 2005, 94, 491-501.	2.1	14
43	A constricted opening in Kir channels does not impede potassium conduction. <i>Nature Communications</i> , 2020, 11, 3024.	5.8	14
44	A domain peptide of the cardiac ryanodine receptor regulates channel sensitivity to luminal Ca ²⁺ via cytoplasmic Ca ²⁺ sites. <i>European Biophysics Journal</i> , 2008, 37, 455-467.	1.2	12
45	Secretoneurin Is an Endogenous Calcium/Calmodulin-Dependent Protein Kinase II Inhibitor That Attenuates Ca ²⁺ -Dependent Arrhythmia. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2019, 12, e007045.	2.1	12
46	Regulation of RyR Channel Gating by Ca ²⁺ , Mg ²⁺ and ATP. <i>Current Topics in Membranes</i> , 2010, 66, 69-89.	0.5	11
47	Nerve-induced responses of mouse vaginal smooth muscle. <i>Pflugers Archiv European Journal of Physiology</i> , 2017, 469, 1373-1385.	1.3	11
48	The Ryanodine Receptor Pore Blocker Neomycin also Inhibits Channel Activity via a Previously Undescribed High-Affinity Ca ²⁺ Binding Site. <i>Journal of Membrane Biology</i> , 2007, 220, 11-20.	1.0	9
49	Mechanisms of SR calcium release in healthy and failing human hearts. <i>Biophysical Reviews</i> , 2015, 7, 33-41.	1.5	9
50	Disulfonic stilbene permeation and block of the anion channel from the sarcoplasmic reticulum of rabbit skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2006, 290, C1666-C1677.	2.1	8
51	Cardiac Calcium Release Channel (Ryanodine Receptor 2) Regulation by Halogenated Anesthetics. <i>Anesthesiology</i> , 2017, 126, 495-506.	1.3	8
52	Selective modulation of different GABAA receptor isoforms by diazepam and etomidate in hippocampal neurons. <i>International Journal of Biochemistry and Cell Biology</i> , 2012, 44, 1491-1500.	1.2	7
53	Calmodulin Mutants Linked to Catecholaminergic Polymorphic Ventricular Tachycardia Fail to Inhibit Human RyR2 Channels. <i>Journal of the American College of Cardiology</i> , 2017, 70, 115-117.	1.2	3
54	Chapter 4 Electrical Methods for Determining Surface Charge Density and Electrolyte Composition at the Lipid Bilayer-Solution Interface. <i>Behavior Research Methods</i> , 2009, , 87-105.	2.3	2

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55	Modelling Calcium-Induced-Calcium-Release from Measurements of RyR Gating. Biophysical Journal, 2017, 112, 540a-541a.	0.2	2
56	Measures of maximal tactile pressures of a sustained grasp task using a TactArray device have satisfactory reliability and validity in healthy people. Somatosensory & Motor Research, 2019, 36, 249-261.	0.4	1
57	Simulation of Intracellular Calcium Release in Heart Cells. IFAC-PapersOnLine, 2019, 52, 238-243.	0.5	1
58	Flecainide Inhibits Cardiac Ryanodine Channels And Spontaneous Sarcoplasmic Reticulum Calcium Release In Casq2 Null Myocytes. Biophysical Journal, 2009, 96, 11a.	0.2	0
59	Amyloid- β protein impairs Ca ²⁺ release and contractility in skeletal muscle from Inclusion Body Myositis mice. Biophysical Journal, 2009, 96, 280a.	0.2	0
60	Balancing SR Ca ²⁺ uptake and release in the cycle of heart rhythm. Journal of Physiology, 2016, 594, 2779-2780.	1.3	0
61	Calmodulin Regulation of Ryanodine Receptors (RyR2) Differs in Failing and Non-Failing Human Hearts due to Differences in RyR2 Phosphorylation. Biophysical Journal, 2016, 110, 269a.	0.2	0
62	Can K ⁺ be Conducted through a Narrow Pore? Investigating the role of Conformational Change in Gating Kir Channels. Biophysical Journal, 2018, 114, 35a.	0.2	0