

Livia C Hool

List of Publications by Year in descending order

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116
papers

2,796
citations

172207

29
h-index

223531

46
g-index

121
all docs

121
docs citations

121
times ranked

4176
citing authors

#	ARTICLE	IF	CITATIONS
1	Redox Control of Calcium Channels: From Mechanisms to Therapeutic Opportunities. Antioxidants and Redox Signaling, 2007, 9, 409-435.	2.5	147
2	Transient Exposure to Hydrogen Peroxide Causes an Increase in Mitochondria-Derived Superoxide As a Result of Sustained Alteration in L-Type Ca ²⁺ Channel Function in the Absence of Apoptosis in Ventricular Myocytes. Circulation Research, 2007, 100, 1036-1044.	2.0	125
3	The interaction between electromagnetic fields at megahertz, gigahertz and terahertz frequencies with cells, tissues and organisms: risks and potential. Journal of the Royal Society Interface, 2017, 14, 20170585.	1.5	99
4	Cellular and Molecular Changes to Cortical Neurons Following Low Intensity Repetitive Magnetic Stimulation at Different Frequencies. Brain Stimulation, 2015, 8, 114-123.	0.7	95
5	Hypoxia Increases the Sensitivity of the L-Type Ca ²⁺ Current to Î ² -Adrenergic Receptor Stimulation via a C2 Region-Containing Protein Kinase C Isoform. Circulation Research, 2000, 87, 1164-1171.	2.0	78
6	Secreted Frizzled-Related Protein 4. American Journal of Pathology, 2010, 176, 1505-1516.	1.9	78
7	Loss of the RNA-binding protein TACO1 causes late-onset mitochondrial dysfunction in mice. Nature Communications, 2016, 7, 11884.	5.8	73
8	Decreasing Cellular Hydrogen Peroxide With Catalase Mimics the Effects of Hypoxia on the Sensitivity of the L-Type Ca ²⁺ Channel to Î ² -Adrenergic Receptor Stimulation in Cardiac Myocytes. Circulation Research, 2002, 91, 601-609.	2.0	70
9	REACTIVE OXYGEN SPECIES IN CARDIAC SIGNALLING: FROM MITOCHONDRIA TO PLASMA MEMBRANE ION CHANNELS. Clinical and Experimental Pharmacology and Physiology, 2006, 33, 146-151.	0.9	70
10	Nanoparticle-Mediated Dual Delivery of an Antioxidant and a Peptide against the L-Type Ca ²⁺ Channel Enables Simultaneous Reduction of Cardiac Ischemia-Reperfusion Injury. ACS Nano, 2015, 9, 279-289.	7.3	64
11	Evidence for regulation of mitochondrial function by the L-type Ca ²⁺ channel in ventricular myocytes. Journal of Molecular and Cellular Cardiology, 2009, 46, 1016-1026.	0.9	63
12	Regulator of G-Protein Signaling 5 Controls Blood Pressure Homeostasis and Vessel Wall Remodeling. Circulation Research, 2013, 112, 781-791.	2.0	61
13	Role of NAD(P)H oxidase in the regulation of cardiac L-type Ca channel function during acute hypoxia. Cardiovascular Research, 2005, 67, 624-635.	1.8	60
14	Concerted regulation of mitochondrial and nuclear non-coding RNAs by a dual-targeted RNase Z. EMBO Reports, 2018, 19, .	2.0	60
15	PTCD1 Is Required for 16S rRNA Maturation Complex Stability and Mitochondrial Ribosome Assembly. Cell Reports, 2018, 23, 127-142.	2.9	51
16	Genistein Increases the Sensitivity of Cardiac Ion Channels to Î ² -Adrenergic Receptor Stimulation. Circulation Research, 1998, 83, 33-42.	2.0	50
17	EVIDENCE FOR THE REGULATION OF L-TYPE Ca ²⁺ CHANNELS IN THE HEART BY REACTIVE OXYGEN SPECIES: MECHANISM FOR MEDIATING PATHOLOGY. Clinical and Experimental Pharmacology and Physiology, 2008, 35, 229-234.	0.9	50
18	A platform for discovery of functional cell-penetrating peptides for efficient multi-cargo intracellular delivery. Scientific Reports, 2018, 8, 12538.	1.6	50

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19	Fidelity of translation initiation is required for coordinated respiratory complex assembly. <i>Science Advances</i> , 2019, 5, eaay2118.	4.7	47
20	Cav1.2 calcium channel is glutathionylated during oxidative stress in guinea pig and ischemic human heart. <i>Free Radical Biology and Medicine</i> , 2011, 51, 1501-1511.	1.3	46
21	Deranged sodium to sudden death. <i>Journal of Physiology</i> , 2015, 593, 1331-1345.	1.3	46
22	L-type Ca ²⁺ channel contributes to alterations in mitochondrial calcium handling in the ventricular myocyte. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 304, H767-H775.	1.5	45
23	Myeloperoxidase-derived oxidants inhibit sarco/endoplasmic reticulum Ca ²⁺ -ATPase activity and perturb Ca ²⁺ homeostasis in human coronary artery endothelial cells. <i>Free Radical Biology and Medicine</i> , 2012, 52, 951-961.	1.3	42
24	Impaired functional communication between the L-type calcium channel and mitochondria contributes to metabolic inhibition in the heart. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E2905-14.	3.3	42
25	Hypoxia Alters the Sensitivity of the L-Type Ca ²⁺ Channel to β -Adrenergic Receptor Stimulation in the Presence of β -Adrenergic Receptor Stimulation. <i>Circulation Research</i> , 2001, 88, 1036-1043.	2.0	38
26	Contributions of Ion Channel Currents to Ventricular Action Potential Changes and Induction of Early Afterdepolarizations During Acute Hypoxia. <i>Circulation Research</i> , 2009, 105, 1196-1203.	2.0	38
27	Adult-onset obesity is triggered by impaired mitochondrial gene expression. <i>Science Advances</i> , 2017, 3, e1700677.	4.7	36
28	Mutation in MRPS34 Compromises Protein Synthesis and Causes Mitochondrial Dysfunction. <i>PLoS Genetics</i> , 2015, 11, e1005089.	1.5	35
29	The L-type Ca ²⁺ Channel as a Potential Mediator of Pathology During Alterations in Cellular Redox State. <i>Heart Lung and Circulation</i> , 2009, 18, 3-10.	0.2	31
30	The impact of non-severe burn injury on cardiac function and long-term cardiovascular pathology. <i>Scientific Reports</i> , 2016, 6, 34650.	1.6	29
31	Examining Efficacy of TAT-Delivery of a Peptide against the L-Type Calcium Channel in Cardiac Ischemia-Reperfusion Injury. <i>ACS Nano</i> , 2013, 7, 2212-2220.	7.3	28
32	Mechanosensitive channel of large conductance. <i>International Journal of Biochemistry and Cell Biology</i> , 2008, 40, 164-169.	1.2	27
33	Qo site of mitochondrial complex III is the source of increased superoxide after transient exposure to hydrogen peroxide. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 49, 875-885.	0.9	27
34	Evidence of Altered Guinea Pig Ventricular Cardiomyocyte Protein Expression and Growth in Response to a 5 min in vitro Exposure to H ₂ O ₂ . <i>Journal of Proteome Research</i> , 2010, 9, 1985-1994.	1.8	26
35	The Role of the Cysteine-Rich Domain and Netrin-Like Domain of Secreted Frizzled-Related Protein 4 in Angiogenesis Inhibition In Vitro. <i>Oncology Research</i> , 2012, 20, 1-6.	0.6	26
36	Evidence for redox sensing by a human cardiac calcium channel. <i>Scientific Reports</i> , 2016, 6, 19067.	1.6	26

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37	Bone marrow stromal cells as replacement cells for Parkinson's disease: generation of an anatomical but not functional neuronal phenotype. <i>Translational Research</i> , 2011, 157, 56-63.	2.2	25
38	Crosstalk between L-type Ca^{2+} channels and mitochondria. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2010, 37, 229-235.	0.9	24
39	Verapamil is Less Effective than Triamcinolone for Prevention of Keloid Scar Recurrence After Excision in a Randomized Controlled Trial. <i>Acta Dermato-Venereologica</i> , 2014, 96, 774-8.	0.6	24
40	Choline Kinase \hat{I}^2 Mutant Mice Exhibit Reduced Phosphocholine, Elevated Osteoclast Activity, and Low Bone Mass. <i>Journal of Biological Chemistry</i> , 2015, 290, 1729-1742.	1.6	24
41	\hat{I}^1 -Adrenergic Inhibition of the \hat{I}^2 -Adrenergically Activated Cl^- Current in Guinea Pig Ventricular Myocytes. <i>Circulation Research</i> , 1996, 78, 1090-1099.	2.0	24
42	Role of \hat{I}^1 - and \hat{I}^2 -adrenergic receptors in regulation of Cl^- and Ca^{2+} channels in guinea pig ventricular myocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1997, 273, H1669-H1676.	1.5	23
43	The cardiac L-type calcium channel alpha subunit is a target for direct redox modification during oxidative stress—the role of cysteine residues in the alpha interacting domain. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2017, 44, 46-54.	0.9	23
44	How Does Calcium Regulate Mitochondrial Energetics in the Heart? — New Insights. <i>Heart Lung and Circulation</i> , 2014, 23, 602-609.	0.2	21
45	The potential for nanotechnology to improve delivery of therapy to the acute ischemic heart. <i>Nanomedicine</i> , 2016, 11, 817-832.	1.7	21
46	Real-Time Bioimpedance Sensing of Antifibrotic Drug Action in Primary Human Cells. <i>ACS Sensors</i> , 2017, 2, 1482-1490.	4.0	21
47	Stress signaling and cellular proliferation reverse the effects of mitochondrial mistranslation. <i>EMBO Journal</i> , 2019, 38, e102155.	3.5	21
48	Decreased Myocardial Injury and Improved Contractility After Administration of a Peptide Derived Against the Alpha-Interacting Domain of the L-type Calcium Channel. <i>Journal of the American Heart Association</i> , 2014, 3, e000961.	1.6	20
49	Differential regulation of the slow and rapid components of guinea-pig cardiac delayed rectifier K^+ channels by hypoxia. <i>Journal of Physiology</i> , 2004, 554, 743-754.	1.3	19
50	MscS, the bacterial mechanosensitive channel of small conductance. <i>International Journal of Biochemistry and Cell Biology</i> , 2008, 40, 581-585.	1.2	19
51	Glutathionylation of the L-type Ca^{2+} Channel in Oxidative Stress-Induced Pathology of the Heart. <i>International Journal of Molecular Sciences</i> , 2014, 15, 19203-19225.	1.8	19
52	The L-type Ca^{2+} channel facilitates abnormal metabolic activity in the <i>cTnI</i> mouse model of hypertrophic cardiomyopathy. <i>Journal of Physiology</i> , 2016, 594, 4051-4070.	1.3	19
53	Frequency-specific effects of repetitive magnetic stimulation on primary astrocyte cultures. <i>Restorative Neurology and Neuroscience</i> , 2017, 35, 557-569.	0.4	19
54	AlGaIn/GaN-based biosensor for label-free detection of biological activity. <i>Sensors and Actuators B: Chemical</i> , 2013, 177, 577-582.	4.0	18

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55	A Review of in vitro Platforms for Understanding Cardiomyocyte Mechanobiology. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 133.	2.0	18
56	Impaired calcium handling and mitochondrial metabolic dysfunction as early markers of hypertrophic cardiomyopathy. <i>Archives of Biochemistry and Biophysics</i> , 2019, 665, 166-174.	1.4	18
57	Role of G Proteins in β_1 -Adrenergic Inhibition of the β_2 -Adrenergically Activated Chloride Current in Cardiac Myocytes. <i>Molecular Pharmacology</i> , 1997, 51, 853-860.	1.0	17
58	Acute hypoxia differentially regulates K ⁺ channels. Implications with respect to cardiac arrhythmia. <i>European Biophysics Journal</i> , 2005, 34, 369-376.	1.2	17
59	Targeting Calcium and the Mitochondria in Prevention of Pathology in the Heart. <i>Current Drug Targets</i> , 2011, 12, 748-760.	1.0	17
60	Millimeter Wave Radiation Activates Leech Nociceptors via TRPV1-Like Receptor Sensitization. <i>Biophysical Journal</i> , 2019, 116, 2331-2345.	0.2	17
61	L-type Ca ²⁺ channel-mediated Ca ²⁺ influx adjusts neuronal mitochondrial function to physiological and pathophysiological conditions. <i>Science Signaling</i> , 2020, 13, .	1.6	17
62	The L-Type Ca ²⁺ Channel as a Therapeutic Target in Heart Disease. <i>Current Medicinal Chemistry</i> , 2009, 16, 3341-3358.	1.2	15
63	Dystrophic Cardiomyopathy—Potential Role of Calcium in Pathogenesis, Treatment and Novel Therapies. <i>Genes</i> , 2017, 8, 108.	1.0	15
64	Identification of a novel cAMP dependent protein kinase A phosphorylation site on the human cardiac calcium channel. <i>Scientific Reports</i> , 2017, 7, 15118.	1.6	13
65	What Cardiologists Should Know About Calcium Ion Channels and Their Regulation by Reactive Oxygen Species. <i>Heart Lung and Circulation</i> , 2007, 16, 361-372.	0.2	12
66	Regenerating optic axons restore topography after incomplete optic nerve injury. <i>Journal of Comparative Neurology</i> , 2007, 505, 46-57.	0.9	12
67	Specific combinations of ion channel inhibitors reduce excessive Ca ²⁺ influx as a consequence of oxidative stress and increase neuronal and glial cell viability in vitro. <i>Neuroscience</i> , 2016, 339, 450-462.	1.1	12
68	The Role of the L-Type Ca ²⁺ Channel in Altered Metabolic Activity in a Murine Model of Hypertrophic Cardiomyopathy. <i>JACC Basic To Translational Science</i> , 2016, 1, 61-72.	1.9	12
69	Interrogating cardiac muscle cell mechanobiology on stiffness gradient hydrogels. <i>Biomaterials Science</i> , 2021, 9, 6795-6806.	2.6	12
70	The Effect of Acute Hypoxia on Excitability in the Heart and the L-Type Calcium Channel as a Therapeutic Target. <i>Current Drug Discovery Technologies</i> , 2008, 5, 302-311.	0.6	12
71	L-type calcium channel: Clarifying the "oxygen sensing hypothesis". <i>International Journal of Biochemistry and Cell Biology</i> , 2017, 86, 32-36.	1.2	11
72	Myoglobinopathy is an adult-onset autosomal dominant myopathy with characteristic sarcoplasmic inclusions. <i>Nature Communications</i> , 2019, 10, 1396.	5.8	11

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73	Mitochondrial mistranslation modulated by metabolic stress causes cardiovascular disease and reduced lifespan. <i>Aging Cell</i> , 2021, 20, e13408.	3.0	11
74	Protein Kinase C Isozyme Selective Peptides - A Current View of What they Tell Us About Location and Function of Isozymes in the Heart. <i>Current Pharmaceutical Design</i> , 2005, 11, 549-559.	0.9	11
75	A novel antimicrobial agent reduces oxidative stress in cells. <i>RSC Advances</i> , 2013, 3, 7277-7281.	1.7	10
76	Prolonged glutamate excitotoxicity increases GluR1 immunoreactivity but decreases mRNA of GluR1 and associated regulatory proteins in dissociated rat retinae in vitro. <i>Biochimie</i> , 2015, 112, 160-171.	1.3	10
77	Fidelity and coordination of mitochondrial protein synthesis in health and disease. <i>Journal of Physiology</i> , 2020, 599, 3449-3462.	1.3	10
78	Lack of Strategic Funding and Long-Term Job Security Threaten to Have Profound Effects on Cardiovascular Researcher Retention in Australia. <i>Heart Lung and Circulation</i> , 2020, 29, 1588-1595.	0.2	10
79	Nanoparticle-mediated internalisation and release of a calcium channel blocker. <i>RSC Advances</i> , 2012, 2, 8587.	1.7	9
80	Changes in oxygen tension affect cardiac mitochondrial respiration rate via changes in the rate of mitochondrial hydrogen peroxide production. <i>Journal of Molecular and Cellular Cardiology</i> , 2009, 47, 49-56.	0.9	8
81	How Does the Heart Sense Changes in Oxygen Tension: A Role for Ion Channels?. <i>Antioxidants and Redox Signaling</i> , 2015, 22, 522-536.	2.5	8
82	The L-type Ca ²⁺ channel: A mediator of hypertrophic cardiomyopathy. <i>Channels</i> , 2017, 11, 5-7.	1.5	8
83	TGF β -induced fibrotic stress increases C α quadruplex formation in human fibroblasts. <i>FEBS Letters</i> , 2019, 593, 3149-3161.	1.3	8
84	Can Integrins Integrate Vascular Myogenic Responses?. <i>Circulation Research</i> , 2002, 90, 371-373.	2.0	7
85	Characterization and validation of a preventative therapy for hypertrophic cardiomyopathy in a murine model of the disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23113-23124.	3.3	7
86	Preventative therapeutic approaches for hypertrophic cardiomyopathy. <i>Journal of Physiology</i> , 2020, 599, 3495-3512.	1.3	6
87	A Morpholino Oligomer Therapy Regime That Restores Mitochondrial Function and Prevents mdx Cardiomyopathy. <i>JACC Basic To Translational Science</i> , 2018, 3, 391-402.	1.9	5
88	Mitochondria at the Crossroads of Survival and Demise. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-2.	1.9	5
89	Neuronal nitric oxide synthase regulation of calcium cycling in ventricular cardiomyocytes is independent of Cav1.2 channel modulation under basal conditions. <i>Pflügers Archiv European Journal of Physiology</i> , 2020, 472, 61-74.	1.3	5
90	Development of induced pluripotent stem cells from a patient with hypertrophic cardiomyopathy who carries the pathogenic myosin heavy chain 7 mutation p.Arg403Gln. <i>Stem Cell Research</i> , 2018, 33, 269-273.	0.3	4

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91	A common genetic variant of a mitochondrial RNA processing enzyme predisposes to insulin resistance. <i>Science Advances</i> , 2021, 7, eabi7514.	4.7	4
92	Auto-regulation in the powerhouse. <i>ELife</i> , 2017, 6, .	2.8	4
93	A new methodology for assessment of the performance of heartbeat classification systems. <i>BMC Medical Informatics and Decision Making</i> , 2008, 8, 7.	1.5	3
94	Evaluation of a biologically relevant level of MMW radiation absorption in neuronal tissue. , 2017, , .		3
95	Ex Vivo Effect of 60 GHz MMW radiation on Leech Neuron Intracellular Calcium Alteration. , 2020, , .		2
96	P.11.5 PMO-mediated dystrophin exon 23 skipping restores mitochondrial function in the mdx mouse heart. <i>Neuromuscular Disorders</i> , 2013, 23, 800.	0.3	1
97	The Design and Testing of Multifunctional Nanoparticles for Drug Delivery Applications. , 2016, , 1-60.		1
98	A dendronized polymer variant that facilitates safe delivery of a calcium channel antagonist to the heart. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 29, 102264.	1.7	1
99	Unravelling the mysteries of mitochondria in health and disease. <i>Journal of Physiology</i> , 2021, 599, 3447-3448.	1.3	1
100	The Role of Calcium and the L-Type Calcium Channel in Pathological Remodeling of the Heart. <i>Vascular Disease Prevention</i> , 2008, 5, 104-115.	0.2	1
101	Calcium Channels. , 2007, , 241-299.		1
102	The Role of Calcium and the L-Type Calcium Channel in Pathological Remodeling of the Heart. <i>Vascular Disease Prevention</i> , 2008, 5, 104-115.	0.2	0
103	Identifying The Site Of The Source Of Reactive Oxygen Species Within The Mitochondria After Transient Exposure Of Cardiac Myocytes To Hydrogen Peroxide. <i>Biophysical Journal</i> , 2009, 96, 244a.	0.2	0
104	Editorial [Hot Topic: Calcium Regulatory Proteins as Therapeutic Targets (Guest Editor: Livia C. Hool)]. <i>Current Drug Targets</i> , 2011, 12, 707-708.	1.0	0
105	Myeloperoxidase-derived Oxidants Inhibit SERCA Activity and Perturb Ca ²⁺ Homeostasis in Human Coronary Artery Endothelial Cells. <i>Free Radical Biology and Medicine</i> , 2011, 51, S27.	1.3	0
106	Evidence for Altered Communication Between the L-Type Ca ²⁺ Channel and Mitochondria in a Model of Cardiomyopathy. <i>Biophysical Journal</i> , 2012, 102, 128a-129a.	0.2	0
107	Morpholino Oligomer Peptide Therapy Improves Mitochondrial Function in mdx Cardiomyopathy. <i>Biophysical Journal</i> , 2015, 108, 581a-582a.	0.2	0
108	Characterising the Effects of a Peptide Directed Against the L-Type Ca ²⁺ Channel on Mitochondrial Function in Hypertrophic Cardiomyopathy. <i>Biophysical Journal</i> , 2016, 110, 450a.	0.2	0

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109	Manipulating L-Type Calcium Channel Activity Alters Mitochondrial Function and Prevents Hypertrophic Cardiomyopathy in a Troponin I Mutant Mouse Model. <i>Biophysical Journal</i> , 2017, 112, 243a.	0.2	0
110	Treatment of Adult mdx Mice with Phosphorodiamidate Morpholino Oligomer Restores Cardiac Mitochondrial Energetics and Prevents the Dystrophic Cardiomyopathy. <i>Biophysical Journal</i> , 2017, 112, 245a.	0.2	0
111	Elucidating the Molecular Mechanisms for Activation of the L-Type Calcium Channel in the Fight or Flight Response. <i>Biophysical Journal</i> , 2018, 114, 197a.	0.2	0
112	Comparing efficacy of 8% versus 17% fluorinated dendrimers as delivery vehicles for a peptide in cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 120, 40-41.	0.9	0
113	Differences and Similarities Between Millimetre Wave and Thermal Heating Effect on Action Potential Triggering in Leech Interneuron. , 2019, , .		0
114	Evidence for significance of serine 1487 in β -adrenergic regulation of Cav1.2 channel protein function in genetically engineered mice. <i>Journal of Molecular and Cellular Cardiology</i> , 2020, 140, 50.	0.9	0
115	Arrhythmogenic Vulnerability is Associated with Alterations in Ion Channel Expression, Localization and Function in Hypertrophic Cardiomyopathy. <i>Biophysical Journal</i> , 2020, 118, 268a.	0.2	0
116	Assessing the effect of dendrimer concentration on cardiomyocyte uptake and clearance. <i>Journal of Molecular and Cellular Cardiology</i> , 2020, 140, 39-40.	0.9	0