

Joshua I Goldhaber

List of Publications by Year in descending order

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101
papers

5,613
citations

61984

43
h-index

79698

73
g-index

105
all docs

105
docs citations

105
times ranked

5561
citing authors

#	ARTICLE	IF	CITATIONS
1	Intracellular Ca ²⁺ Dynamics and the Stability of Ventricular Tachycardia. <i>Biophysical Journal</i> , 1999, 77, 2930-2941.	0.5	290
2	Connexin-43 Hemichannels Opened by Metabolic Inhibition. <i>Journal of Biological Chemistry</i> , 1999, 274, 236-240.	3.4	241
3	Reprogrammed Mouse Fibroblasts Differentiate into Cells of the Cardiovascular and Hematopoietic Lineages. <i>Stem Cells</i> , 2008, 26, 1537-1546.	3.2	227
4	Action Potential Duration Restitution and Alternans in Rabbit Ventricular Myocytes. <i>Circulation Research</i> , 2005, 96, 459-466.	4.5	214
5	Safety and Hemodynamic Effects of Intravenous Triiodothyronine in Advanced Congestive Heart Failure. <i>American Journal of Cardiology</i> , 1998, 81, 443-447.	1.6	196
6	Integrins Participate in the Hypertrophic Response of Rat Ventricular Myocytes. <i>Circulation Research</i> , 1998, 82, 1160-1172.	4.5	181
7	Metabolic Inhibition Activates a Non-selective Current Through Connexin Hemichannels in Isolated Ventricular Myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2000, 32, 1859-1872.	1.9	178
8	Oxygen free radicals and cardiac reperfusion abnormalities.. <i>Hypertension</i> , 1992, 20, 118-127.	2.7	175
9	Functional Adult Myocardium in the Absence of Na ⁺ -Ca ²⁺ Exchange. <i>Circulation Research</i> , 2004, 95, 604-611.	4.5	172
10	The Na ⁺ -Ca ²⁺ Exchanger Is Essential for the Action of Cardiac Glycosides. <i>Circulation Research</i> , 2002, 90, 305-308.	4.5	165
11	Na ⁺ /Ca ²⁺ exchange and Na ⁺ /K ⁺ -ATPase in the heart. <i>Journal of Physiology</i> , 2015, 593, 1361-1382.	2.9	160
12	Cardiac-Specific Ablation of the Na ⁺ -Ca ²⁺ Exchanger Confers Protection Against Ischemia/Reperfusion Injury. <i>Circulation Research</i> , 2005, 97, 916-921.	4.5	148
13	Pulseless Electric Activity. <i>Circulation</i> , 2013, 128, 2532-2541.	1.6	139
14	Effects of exogenous free radicals on electromechanical function and metabolism in isolated rabbit and guinea pig ventricle. Implications for ischemia and reperfusion injury.. <i>Journal of Clinical Investigation</i> , 1989, 83, 1800-1809.	8.2	136
15	Knockout Mice for Pharmacological Screening. <i>Circulation Research</i> , 2002, 91, 90-92.	4.5	129
16	Next-generation pacemakers: from small devices to biological pacemakers. <i>Nature Reviews Cardiology</i> , 2018, 15, 139-150.	13.7	123
17	Na/Ca exchange and contraction of the heart. <i>Journal of Molecular and Cellular Cardiology</i> , 2013, 61, 28-33.	1.9	104
18	Excitation-Contract Coupling in Na ⁺ -Ca ²⁺ Exchanger Knockout Mice. <i>Circulation Research</i> , 2005, 97, 1288-1295.	4.5	99

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19	Oxygen Free Radicals and Excitation-Contraction Coupling. Antioxidants and Redox Signaling, 2000, 2, 55-64.	5.4	95
20	Mutation in sodium-calcium exchanger 1 (NCX1) causes cardiac fibrillation in zebrafish. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 17699-17704.	7.1	92
21	Excitation-contraction coupling in single guinea pig ventricular myocytes exposed to hydrogen peroxide.. Journal of Physiology, 1994, 477, 135-147.	2.9	89
22	Novel Features of the Rabbit Transverse Tubular System Revealed by Quantitative Analysis of Three-Dimensional Reconstructions from Confocal Images. Biophysical Journal, 2008, 95, 2053-2062.	0.5	86
23	Activation of reverse Na ⁺ -Ca ²⁺ exchange by the Na ⁺ current augments the cardiac Ca ²⁺ transient: evidence from NCX knockout mice. Journal of Physiology, 2010, 588, 3267-3276.	2.9	79
24	Spontaneously beating cardiomyocytes derived from white mature adipocytes. Cardiovascular Research, 2010, 85, 17-27.	3.8	73
25	Burst pacemaker activity of the sinoatrial node in sodium-calcium exchanger knockout mice. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9769-9774.	7.1	71
26	Recapitulation of the embryonic cardiovascular progenitor cell niche. Biomaterials, 2011, 32, 2748-2756.	11.4	70
27	Induction of Monocyte Binding to Endothelial Cells by MM-LDL. Arteriosclerosis, Thrombosis, and Vascular Biology, 1999, 19, 680-686.	2.4	69
28	Na ⁺ -Ca ²⁺ exchange in the regulation of cardiac excitation-contraction coupling. Cardiovascular Research, 2005, 67, 198-207.	3.8	69
29	Mitochondrial Ca ²⁺ uptake by the voltage-dependent anion channel 2 regulates cardiac rhythmicity. ELife, 2015, 4, .	6.0	67
30	Regulation of Cardiac L-Type Ca ²⁺ Current in Na ⁺ -Ca ²⁺ Exchanger Knockout Mice: Functional Coupling of the Ca ²⁺ Channel and the Na ⁺ -Ca ²⁺ Exchanger. Biophysical Journal, 2007, 92, 1431-1437.	0.5	63
31	Complete Atrial-Specific Knockout of Sodium-Calcium Exchange Eliminates Sinoatrial Node Pacemaker Activity. PLoS ONE, 2013, 8, e81633.	2.5	62
32	Sodium-Calcium Exchange Is Essential for Effective Triggering of Calcium Release in Mouse Heart. Biophysical Journal, 2010, 99, 755-764.	0.5	57
33	Canonical Wnt signaling promotes pacemaker cell specification of cardiac mesodermal cells derived from mouse and human embryonic stem cells. Stem Cells, 2020, 38, 352-368.	3.2	55
34	Mechanisms of excitation-contraction coupling failure during metabolic inhibition in guinea pig ventricular myocytes.. Journal of Physiology, 1991, 443, 371-386.	2.9	54
35	Local regulation of the threshold for calcium sparks in rat ventricular myocytes: role of sodium-calcium exchange. Journal of Physiology, 1999, 520, 431-438.	2.9	54
36	Delayed Repolarization Underlies Ventricular Arrhythmias in Rats With Heart Failure and Preserved Ejection Fraction. Circulation, 2017, 136, 2037-2050.	1.6	54

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37	Integrins protect cardiomyocytes from ischemia/reperfusion injury. <i>Journal of Clinical Investigation</i> , 2013, 123, 4294-4308.	8.2	52
38	Role of Inotropic Agents in the Treatment of Heart Failure. <i>Circulation</i> , 2010, 121, 1655-1660.	1.6	50
39	Triple Threat: The Na ⁺ /Ca ²⁺ Exchanger in the Pathophysiology of Cardiac Arrhythmia, Ischemia and Heart Failure. <i>Current Drug Targets</i> , 2011, 12, 737-747.	2.1	49
40	Cardiac TRPV1 afferent signaling promotes arrhythmogenic ventricular remodeling after myocardial infarction. <i>JCI Insight</i> , 2020, 5, .	5.0	49
41	Cardiac excitation-contraction coupling in the absence of Na ⁺ -Ca ²⁺ exchange. <i>Cell Calcium</i> , 2003, 34, 19-26.	2.4	47
42	Mice overexpressing the cardiac sodium-calcium exchanger: defects in excitation-contraction coupling. <i>Journal of Physiology</i> , 2004, 554, 779-789.	2.9	47
43	Na ⁺ currents are required for efficient excitation-contraction coupling in rabbit ventricular myocytes: a possible contribution of neuronal Na ⁺ channels. <i>Journal of Physiology</i> , 2010, 588, 4249-4260.	2.9	47
44	Embryonic Stem Cell-Derived Cardiac Myocytes Are Not Ready for Human Trials. <i>Circulation Research</i> , 2014, 115, 335-338.	4.5	47
45	Mechanism of shortened action potential duration in Na ⁺ -Ca ²⁺ exchanger knockout mice. <i>American Journal of Physiology - Cell Physiology</i> , 2007, 292, C968-C973.	4.6	41
46	Cardiac Sodium-Calcium Exchange and Efficient Excitation-Contraction Coupling: Implications for Heart Disease. <i>Advances in Experimental Medicine and Biology</i> , 2013, 961, 355-364.	1.6	40
47	Proarrhythmia in a non-failing murine model of cardiac-specific Na ⁺ /Ca ²⁺ exchanger overexpression: whole heart and cellular mechanisms. <i>Basic Research in Cardiology</i> , 2012, 107, 247.	5.9	39
48	Contribution of small conductance K ⁺ channels to sinoatrial node pacemaker activity: insights from atrial-specific Na ⁺ /Ca ²⁺ exchange knockout mice. <i>Journal of Physiology</i> , 2017, 595, 3847-3865.	2.9	39
49	Gi1-Mediated Cardiac Electrophysiological Remodeling and Arrhythmia in Hypertrophic Cardiomyopathy. <i>Circulation</i> , 2007, 116, 596-605.	1.6	37
50	Distinct features of calcium handling and Î²-adrenergic sensitivity in heart failure with preserved <i>versus</i> reduced ejection fraction. <i>Journal of Physiology</i> , 2020, 598, 5091-5108.	2.9	37
51	Suppression of Early and Late Afterdepolarizations by Heterozygous Knockout of the Na ⁺ /Ca ²⁺ Exchanger in a Murine Model. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015, 8, 1210-1218.	4.8	34
52	Ventricular Arrhythmias Underlie Sudden Death in Rats With Heart Failure and Preserved Ejection Fraction. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018, 11, e006452.	4.8	33
53	Regulation of calcium clock-mediated pacemaking by inositol 1,4,5-trisphosphate receptors in mouse sinoatrial nodal cells. <i>Journal of Physiology</i> , 2015, 593, 2649-2663.	2.9	30
54	Heterogeneity of transverse-axial tubule system in mouse atria: Remodeling in atrial-specific Na ⁺ -Ca ²⁺ exchanger knockout mice. <i>Journal of Molecular and Cellular Cardiology</i> , 2017, 108, 50-60.	1.9	30

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55	High-density lipoprotein increases intracellular calcium levels by releasing calcium from internal stores in human endothelial cells. <i>Atherosclerosis</i> , 1999, 143, 299-306.	0.8	29
56	Na ⁺ /Ca ²⁺ Exchanger Knockout Mice: Plasticity of Cardiac Excitation-Contraction Coupling. <i>Annals of the New York Academy of Sciences</i> , 2007, 1099, 270-275.	3.8	26
57	Genetic manipulation of cardiac Na ⁺ /Ca ²⁺ exchange expression. <i>Biochemical and Biophysical Research Communications</i> , 2004, 322, 1336-1340.	2.1	25
58	Metabolic Inhibition Alters Subcellular Calcium Release Patterns in Rat Ventricular Myocytes. <i>Circulation Research</i> , 2005, 96, 551-557.	4.5	24
59	The role of E2F-1 and downstream target genes in mediating ischemia/reperfusion injury in vivo. <i>Journal of Molecular and Cellular Cardiology</i> , 2011, 51, 919-926.	1.9	24
60	Mechanisms of Sinoatrial Node Dysfunction in Heart Failure With Preserved Ejection Fraction. <i>Circulation</i> , 2022, 145, 45-60.	1.6	23
61	Dysfunction of ouabain-induced cardiac contractility in mice with heart-specific ablation of Na,K-ATPase β 1-subunit. <i>Journal of Molecular and Cellular Cardiology</i> , 2009, 47, 552-560.	1.9	22
62	Reverse electrical remodeling in rats with heart failure and preserved ejection fraction. <i>JCI Insight</i> , 2018, 3, .	5.0	22
63	Effect of Metabolic Inhibition on Couplon Behavior in Rabbit Ventricular Myocytes. <i>Biophysical Journal</i> , 2008, 94, 1656-1666.	0.5	20
64	Return of calcium: Manipulating intracellular calcium to prevent cardiac pathologies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 5697-5698.	7.1	19
65	Movement of vault particles visualized by GFP-tagged major vault protein. <i>Cell and Tissue Research</i> , 2006, 324, 403-410.	2.9	18
66	Homozygous Overexpression of the Na ⁺ -Ca ²⁺ Exchanger in Mice: Evidence for Increased Transsarcolemmal Ca ²⁺ Fluxes. <i>Annals of the New York Academy of Sciences</i> , 2007, 1099, 310-314.	3.8	18
67	Molecular determinants of pH regulation in the cardiac Na ⁺ -Ca ²⁺ exchanger. <i>Journal of General Physiology</i> , 2018, 150, 245-257.	1.9	18
68	A modified local control model for Ca ²⁺ transients in cardiomyocytes: Junctional flux is accompanied by release from adjacent non-junctional RyRs. <i>Journal of Molecular and Cellular Cardiology</i> , 2014, 68, 1-11.	1.9	17
69	Sodium-Calcium Exchange. <i>Circulation Research</i> , 1999, 85, 982-984.	4.5	16
70	Myofilament Phosphorylation in Stem Cell Treated Diastolic Heart Failure. <i>Circulation Research</i> , 2021, 129, 1125-1140.	4.5	16
71	Triggered activity in atrial myocytes is influenced by Na ⁺ /Ca ²⁺ exchanger activity in genetically altered mice. <i>Journal of Molecular and Cellular Cardiology</i> , 2016, 101, 106-115.	1.9	14
72	Metabolism in Normal and Ischemic Myocardium. , 1997, , 325-393.		14

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73	Effects of Na ⁺ -Ca ²⁺ Exchange Expression on Excitation-Contraction Coupling in Genetically Modified Mice. <i>Annals of the New York Academy of Sciences</i> , 2005, 1047, 122-126.	3.8	13
74	Na/Ca exchange in the atrium: Role in sinoatrial node pacemaking and excitation-contraction coupling. <i>Cell Calcium</i> , 2020, 87, 102167.	2.4	13
75	20 Years from NCX Purification and Cloning: Milestones. <i>Advances in Experimental Medicine and Biology</i> , 2013, 961, 17-23.	1.6	12
76	Putative ryanodine receptors in the sarcolemma of ventricular myocytes. <i>Pflugers Archiv European Journal of Physiology</i> , 2000, 440, 125-131.	2.8	11
77	The Cardiac Na ⁺ -Ca ²⁺ Exchanger: From Structure to Function. , 2021, 12, 2681-2717.		11
78	Modulation of the cardiac Na ⁺ -Ca ²⁺ exchanger by cytoplasmic protons: Molecular mechanisms and physiological implications. <i>Cell Calcium</i> , 2020, 87, 102140.	2.4	10
79	Acute Genetic Ablation of Cardiac Sodium/Calcium Exchange in Adult Mice: Implications for Cardiomyocyte Calcium Regulation, Cardioprotection, and Arrhythmia. <i>Journal of the American Heart Association</i> , 2021, 10, e019273.	3.7	10
80	TOWARDS COMPUTATIONAL MODELING OF EXCITATION-CONTRACTION COUPLING IN CARDIAC MYOCYTES: RECONSTRUCTION OF STRUCTURES AND PROTEINS FROM CONFOCAL IMAGING. , 2008, , 328-39.		9
81	The Effects of SEA0400 on Ca ²⁺ Transient Amplitude and Proarrhythmia Depend on the Na ⁺ /Ca ²⁺ Exchanger Expression Level in Murine Models. <i>Frontiers in Pharmacology</i> , 2017, 8, 649.	3.5	8
82	Understanding Circadian Mechanisms of Sudden Cardiac Death: A Report From the National Heart, Lung, and Blood Institute Workshop, Part 1: Basic and Translational Aspects. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2021, 14, e010181.	4.8	8
83	Distinct Occurrence of Proarrhythmic Afterdepolarizations in Atrial Versus Ventricular Cardiomyocytes: Implications for Translational Research on Atrial Arrhythmia. <i>Frontiers in Pharmacology</i> , 2018, 9, 933.	3.5	7
84	A Framework for Analyzing Confocal Images of Transversal Tubules in Cardiomyocytes. , 2007, , 110-119.		7
85	Effects of physical exercise training in syndrome x. <i>Clinical Cardiology</i> , 1993, 16, 65-66.	1.8	6
86	Lysophosphatidylcholine and Cellular Potassium Loss in Isolated Rabbit Ventricle. <i>Journal of Cardiovascular Pharmacology and Therapeutics</i> , 1998, 3, 37-42.	2.0	6
87	Loss of Intracellular and Intercellular Synchrony of Calcium Release in Systolic Heart Failure. <i>Circulation: Heart Failure</i> , 2009, 2, 157-159.	3.9	6
88	Sub-micrometer anatomical models of the sarcolemma of cardiac myocytes based on confocal imaging. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2008, , 390-401.	0.7	5
89	Is the Ryanodine Receptor a Target for Antiarrhythmic Therapy?. <i>Circulation Research</i> , 2006, 98, 1232-1233.	4.5	4
90	Oxygen Free Radicals in the Pathophysiology of Myocardial Ischemia/Reperfusion. , 1993, , 250-266.		4

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91	Endothelium-dependent vasodilators do not cause propagated intercellular Ca ²⁺ waves in vascular endothelial monolayers. <i>Cell Calcium</i> , 1996, 19, 97-104.	2.4	3
92	Atrial-Specific NCX KO Mice Reveal Dependence of Sinoatrial Node Pacemaker Activity on Sodium-Calcium Exchange. <i>Biophysical Journal</i> , 2012, 102, 663a.	0.5	3
93	SUB-MICROMETER ANATOMICAL MODELS OF THE SARCOLEMMA OF CARDIAC MYOCYTES BASED ON CONFOCAL IMAGING. , 2007, , .		3
94	Understanding Circadian Mechanisms of Sudden Cardiac Death: A Report From the National Heart, Lung, and Blood Institute Workshop, Part 2: Population and Clinical Considerations. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2021, 14, e010190.	4.8	3
95	Persistent Periodic Ca ²⁺ Release in Sinoatrial Node of Na ⁺ -Ca ²⁺ Exchanger Knockout Mice. <i>Biophysical Journal</i> , 2013, 104, 209a.	0.5	1
96	The Na ⁺ -dependent Inactivation of NCX1.1 is Physiologically Relevant to Cardiac Function. <i>Biophysical Journal</i> , 2020, 118, 100a-101a.	0.5	1
97	Relationship of Ryanodine Receptors to the Sarcolemma in Rabbit Ventricular Myocytes. <i>Biophysical Journal</i> , 2009, 96, 517a-518a.	0.5	0
98	Sodium Current-Induced Release of Calcium from the Sarcoplasmic Reticulum in Rabbit Ventricular Myocytes. <i>Biophysical Journal</i> , 2010, 98, 201a.	0.5	0
99	Four Histidines Account for the Inhibitory Effect of Protons on the Cardiac Na ⁺ -Ca ²⁺ Exchanger. <i>Biophysical Journal</i> , 2014, 106, 581a.	0.5	0
100	Burst Pacemaker Activity in NCX1 Knockout Mice: Is it Funny Current?. <i>Biophysical Journal</i> , 2014, 106, 631a-632a.	0.5	0
101	Proton Sensitivity of NCX: Modulation by Na, Ca and a Distinct Proton-Sensing Domain. <i>Biophysical Journal</i> , 2017, 112, 275a.	0.5	0