

# Joshua I Goldhaber

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92 papers	4,662 citations	41 h-index	67 g-index
105 ext. papers	5,172 ext. citations	6.9 avg, IF	5.15 L-index

#	Paper	IF	Citations
92	Mechanisms of Sinoatrial Node Dysfunction in Heart Failure With Preserved Ejection Fraction.. <i>Circulation</i> , <b>2022</b> , 145, 45-60	16.7	3
91	Myofilament Phosphorylation in Stem Cell Treated Diastolic Heart Failure. <i>Circulation Research</i> , <b>2021</b> , 129, 1125-1140	15.7	2
90	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> , <b>2021</b> , 14, e010181	6.4	1
89	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> , <b>2021</b> , 14, e010190	6.4	0
88	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> , <b>2021</b> , 10, e019273	6	2
87	The Cardiac Na <sup>+</sup> -Ca <sup>2+</sup> Exchanger: From Structure to Function.. <i>Comprehensive Physiology</i> , <b>2021</b> , 12, 2681-2717	1.7	1
86	Na/Ca exchange in the atrium: Role in sinoatrial node pacemaking and excitation-contraction coupling. <i>Cell Calcium</i> , <b>2020</b> , 87, 102167	4	6
85	Cardiac TRPV1 afferent signaling promotes arrhythmogenic ventricular remodeling after myocardial infarction. <i>JCI Insight</i> , <b>2020</b> , 5,	9.9	19
84	Modulation of the cardiac Na-Ca exchanger by cytoplasmic protons: Molecular mechanisms and physiological implications. <i>Cell Calcium</i> , <b>2020</b> , 87, 102140	4	6
83	Distinct features of calcium handling and $\beta$ -adrenergic sensitivity in heart failure with preserved versus reduced ejection fraction. <i>Journal of Physiology</i> , <b>2020</b> , 598, 5091-5108	3.9	15
82	Canonical Wnt signaling promotes pacemaker cell specification of cardiac mesodermal cells derived from mouse and human embryonic stem cells. <i>Stem Cells</i> , <b>2020</b> , 38, 352-368	5.8	26
81	Molecular determinants of pH regulation in the cardiac Na-Ca exchanger. <i>Journal of General Physiology</i> , <b>2018</b> , 150, 245-257	3.4	14
80	Ventricular Arrhythmias Underlie Sudden Death in Rats With Heart Failure and Preserved Ejection Fraction. <i>Circulation: Arrhythmia and Electrophysiology</i> , <b>2018</b> , 11, e006452	6.4	25
79	Reverse electrical remodeling in rats with heart failure and preserved ejection fraction. <i>JCI Insight</i> , <b>2018</b> , 3,	9.9	12
78	Next-generation pacemakers: from small devices to biological pacemakers. <i>Nature Reviews Cardiology</i> , <b>2018</b> , 15, 139-150	14.8	73
77	Distinct Occurrence of Proarrhythmic Afterdepolarizations in Atrial Versus Ventricular Cardiomyocytes: Implications for Translational Research on Atrial Arrhythmia. <i>Frontiers in Pharmacology</i> , <b>2018</b> , 9, 933	5.6	3
76	Heterogeneity of transverse-axial tubule system in mouse atria: Remodeling in atrial-specific Na-Ca exchanger knockout mice. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2017</b> , 108, 50-60	5.8	18

75	Contribution of small conductance K channels to sinoatrial node pacemaker activity: insights from atrial-specific Na /Ca exchange knockout mice. <i>Journal of Physiology</i> , <b>2017</b> , 595, 3847-3865	3.9	22
74	Delayed Repolarization Underlies Ventricular Arrhythmias in Rats With Heart Failure and Preserved Ejection Fraction. <i>Circulation</i> , <b>2017</b> , 136, 2037-2050	16.7	43
73	The Effects of SEA0400 on Ca Transient Amplitude and Proarrhythmia Depend on the Na/Ca Exchanger Expression Level in Murine Models. <i>Frontiers in Pharmacology</i> , <b>2017</b> , 8, 649	5.6	6
72	Triggered activity in atrial myocytes is influenced by Na/Ca exchanger activity in genetically altered mice. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2016</b> , 101, 106-115	5.8	9
71	Burst pacemaker activity of the sinoatrial node in sodium-calcium exchanger knockout mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 9769-74	11.5	47
70	Regulation of calcium clock-mediated pacemaking by inositol-1,4,5-trisphosphate receptors in mouse sinoatrial nodal cells. <i>Journal of Physiology</i> , <b>2015</b> , 593, 2649-63	3.9	20
69	Na <sup>+</sup> /Ca <sup>2+</sup> exchange and Na <sup>+</sup> /K <sup>+</sup> -ATPase in the heart. <i>Journal of Physiology</i> , <b>2015</b> , 593, 1361-82	3.9	114
68	Suppression of Early and Late Afterdepolarizations by Heterozygous Knockout of the Na <sup>+</sup> /Ca <sup>2+</sup> Exchanger in a Murine Model. <i>Circulation: Arrhythmia and Electrophysiology</i> , <b>2015</b> , 8, 1210-8	6.4	27
67	Mitochondrial Ca(2+) uptake by the voltage-dependent anion channel 2 regulates cardiac rhythmicity. <i>ELife</i> , <b>2015</b> , 4,	8.9	56
66	Embryonic stem cell-derived cardiac myocytes are not ready for human trials. <i>Circulation Research</i> , <b>2014</b> , 115, 335-8	15.7	42
65	A modified local control model for Ca <sup>2+</sup> transients in cardiomyocytes: junctional flux is accompanied by release from adjacent non-junctional RyRs. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2014</b> , 68, 1-11	5.8	15
64	Na/Ca exchange and contraction of the heart. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2013</b> , 61, 28-33	5.8	80
63	Pulseless electric activity: definition, causes, mechanisms, management, and research priorities for the next decade: report from a National Heart, Lung, and Blood Institute workshop. <i>Circulation</i> , <b>2013</b> , 128, 2532-41	16.7	101
62	20 years from NCX purification and cloning: milestones. <i>Advances in Experimental Medicine and Biology</i> , <b>2013</b> , 961, 17-23	3.6	12
61	Cardiac sodium-calcium exchange and efficient excitation-contraction coupling: implications for heart disease. <i>Advances in Experimental Medicine and Biology</i> , <b>2013</b> , 961, 355-64	3.6	36
60	Complete atrial-specific knockout of sodium-calcium exchange eliminates sinoatrial node pacemaker activity. <i>PLoS ONE</i> , <b>2013</b> , 8, e81633	3.7	46
59	Integrins protect cardiomyocytes from ischemia/reperfusion injury. <i>Journal of Clinical Investigation</i> , <b>2013</b> , 123, 4294-308	15.9	44
58	Atrial-Specific NCX KO Mice Reveal Dependence of Sinoatrial Node Pacemaker Activity on Sodium-Calcium Exchange. <i>Biophysical Journal</i> , <b>2012</b> , 102, 663a	2.9	3

57	Proarrhythmia in a non-failing murine model of cardiac-specific Na <sup>+</sup> /Ca <sup>2+</sup> exchanger overexpression: whole heart and cellular mechanisms. <i>Basic Research in Cardiology</i> , <b>2012</b> , 107, 247	11.8	31
56	The role of E2F-1 and downstream target genes in mediating ischemia/reperfusion injury in vivo. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2011</b> , 51, 919-26	5.8	22
55	Triple threat: the Na <sup>+</sup> /Ca <sup>2+</sup> exchanger in the pathophysiology of cardiac arrhythmia, ischemia and heart failure. <i>Current Drug Targets</i> , <b>2011</b> , 12, 737-47	3	36
54	Recapitulation of the embryonic cardiovascular progenitor cell niche. <i>Biomaterials</i> , <b>2011</b> , 32, 2748-56	15.6	61
53	Activation of reverse Na <sup>+</sup> -Ca <sup>2+</sup> exchange by the Na <sup>+</sup> current augments the cardiac Ca <sup>2+</sup> transient: evidence from NCX knockout mice. <i>Journal of Physiology</i> , <b>2010</b> , 588, 3267-76	3.9	71
52	Na <sup>+</sup> currents are required for efficient excitation-contraction coupling in rabbit ventricular myocytes: a possible contribution of neuronal Na <sup>+</sup> channels. <i>Journal of Physiology</i> , <b>2010</b> , 588, 4249-60	3.9	44
51	Sodium-calcium exchange is essential for effective triggering of calcium release in mouse heart. <i>Biophysical Journal</i> , <b>2010</b> , 99, 755-64	2.9	48
50	Role of inotropic agents in the treatment of heart failure. <i>Circulation</i> , <b>2010</b> , 121, 1655-60	16.7	44
49	Spontaneously beating cardiomyocytes derived from white mature adipocytes. <i>Cardiovascular Research</i> , <b>2010</b> , 85, 17-27	9.9	60
48	Loss of intracellular and intercellular synchrony of calcium release in systolic heart failure. <i>Circulation: Heart Failure</i> , <b>2009</b> , 2, 157-9	7.6	5
47	Dysfunction of ouabain-induced cardiac contractility in mice with heart-specific ablation of Na,K-ATPase beta1-subunit. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2009</b> , 47, 552-60	5.8	20
46	Towards computational modeling of excitation-contraction coupling in cardiac myocytes: reconstruction of structures and proteins from confocal imaging. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , <b>2009</b> , 328-39	1.3	9
45	Effect of metabolic inhibition on couplon behavior in rabbit ventricular myocytes. <i>Biophysical Journal</i> , <b>2008</b> , 94, 1656-66	2.9	20
44	Novel features of the rabbit transverse tubular system revealed by quantitative analysis of three-dimensional reconstructions from confocal images. <i>Biophysical Journal</i> , <b>2008</b> , 95, 2053-62	2.9	74
43	Reprogrammed mouse fibroblasts differentiate into cells of the cardiovascular and hematopoietic lineages. <i>Stem Cells</i> , <b>2008</b> , 26, 1537-46	5.8	204
42	Sub-micrometer anatomical models of the sarcolemma of cardiac myocytes based on confocal imaging. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , <b>2008</b> , 390-401	1.3	4
41	Regulation of cardiac L-type Ca <sup>2+</sup> current in Na <sup>+</sup> -Ca <sup>2+</sup> exchanger knockout mice: functional coupling of the Ca <sup>2+</sup> channel and the Na <sup>+</sup> -Ca <sup>2+</sup> exchanger. <i>Biophysical Journal</i> , <b>2007</b> , 92, 1431-7	2.9	56
40	Na <sup>+</sup> /Ca <sup>2+</sup> exchanger knockout mice: plasticity of cardiac excitation-contraction coupling. <i>Annals of the New York Academy of Sciences</i> , <b>2007</b> , 1099, 270-5	6.5	22

39	Homozygous overexpression of the Na <sup>+</sup> -Ca <sup>2+</sup> exchanger in mice: evidence for increased transsarcolemmal Ca <sup>2+</sup> fluxes. <i>Annals of the New York Academy of Sciences</i> , <b>2007</b> , 1099, 310-4	6.5	15
38	Mechanism of shortened action potential duration in Na <sup>+</sup> -Ca <sup>2+</sup> exchanger knockout mice. <i>American Journal of Physiology - Cell Physiology</i> , <b>2007</b> , 292, C968-73	5.4	37
37	Gi alpha 1-mediated cardiac electrophysiological remodeling and arrhythmia in hypertrophic cardiomyopathy. <i>Circulation</i> , <b>2007</b> , 116, 596-605	16.7	31
36	A Framework for Analyzing Confocal Images of Transversal Tubules in Cardiomyocytes <b>2007</b> , 110-119		6
35	Is the ryanodine receptor a target for antiarrhythmic therapy?. <i>Circulation Research</i> , <b>2006</b> , 98, 1232-3	15.7	4
34	Movement of vault particles visualized by GFP-tagged major vault protein. <i>Cell and Tissue Research</i> , <b>2006</b> , 324, 403-10	4.2	17
33	Action potential duration restitution and alternans in rabbit ventricular myocytes: the key role of intracellular calcium cycling. <i>Circulation Research</i> , <b>2005</b> , 96, 459-66	15.7	193
32	Effects of Na <sup>+</sup> -Ca <sup>2+</sup> exchange expression on excitation-contraction coupling in genetically modified mice. <i>Annals of the New York Academy of Sciences</i> , <b>2005</b> , 1047, 122-6	6.5	12
31	Na(+)-Ca <sup>2+</sup> exchange in the regulation of cardiac excitation-contraction coupling. <i>Cardiovascular Research</i> , <b>2005</b> , 67, 198-207	9.9	55
30	Metabolic inhibition alters subcellular calcium release patterns in rat ventricular myocytes: implications for defective excitation-contraction coupling during cardiac ischemia and failure. <i>Circulation Research</i> , <b>2005</b> , 96, 551-7	15.7	23
29	Cardiac-specific ablation of the Na <sup>+</sup> -Ca <sup>2+</sup> exchanger confers protection against ischemia/reperfusion injury. <i>Circulation Research</i> , <b>2005</b> , 97, 916-21	15.7	136
28	Excitation-contraction coupling in Na <sup>+</sup> -Ca <sup>2+</sup> exchanger knockout mice: reduced transsarcolemmal Ca <sup>2+</sup> flux. <i>Circulation Research</i> , <b>2005</b> , 97, 1288-95	15.7	87
27	Mutation in sodium-calcium exchanger 1 (NCX1) causes cardiac fibrillation in zebrafish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 17699-704	11.5	75
26	Functional adult myocardium in the absence of Na <sup>+</sup> -Ca <sup>2+</sup> exchange: cardiac-specific knockout of NCX1. <i>Circulation Research</i> , <b>2004</b> , 95, 604-11	15.7	153
25	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> , <b>2004</b> , 101, 5697-8	11.5	16
24	Mice overexpressing the cardiac sodium-calcium exchanger: defects in excitation-contraction coupling. <i>Journal of Physiology</i> , <b>2004</b> , 554, 779-89	3.9	42
23	Genetic manipulation of cardiac Na <sup>+</sup> /Ca <sup>2+</sup> exchange expression. <i>Biochemical and Biophysical Research Communications</i> , <b>2004</b> , 322, 1336-40	3.4	22
22	Cardiac excitation-contraction coupling in the absence of Na(+) - Ca <sup>2+</sup> exchange. <i>Cell Calcium</i> , <b>2003</b> , 34, 19-26	4	42

21	The Na <sup>+</sup> -Ca <sup>2+</sup> exchanger is essential for the action of cardiac glycosides. <i>Circulation Research</i> , <b>2002</b> , 90, 305-8	15.7	153
20	Knockout mice for pharmacological screening: testing the specificity of Na <sup>+</sup> -Ca <sup>2+</sup> exchange inhibitors. <i>Circulation Research</i> , <b>2002</b> , 91, 90-2	15.7	121
19	Putative ryanodine receptors in the sarcolemma of ventricular myocytes. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2000</b> , 440, 125-31	4.6	7
18	Oxygen free radicals and excitation-contraction coupling. <i>Antioxidants and Redox Signaling</i> , <b>2000</b> , 2, 55-64	4.4	84
17	Metabolic inhibition activates a non-selective current through connexin hemichannels in isolated ventricular myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2000</b> , 32, 1859-72	5.8	168
16	Induction of monocyte binding to endothelial cells by MM-LDL: role of lipoxygenase metabolites. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>1999</b> , 19, 680-6	9.4	61
15	Connexin-43 hemichannels opened by metabolic inhibition. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 236-40	5.4	213
14	Local regulation of the threshold for calcium sparks in rat ventricular myocytes: role of sodium-calcium exchange. <i>Journal of Physiology</i> , <b>1999</b> , 520 Pt 2, 431-8	3.9	45
13	Intracellular Ca(2+) dynamics and the stability of ventricular tachycardia. <i>Biophysical Journal</i> , <b>1999</b> , 77, 2930-41	2.9	259
12	High-density lipoprotein increases intracellular calcium levels by releasing calcium from internal stores in human endothelial cells. <i>Atherosclerosis</i> , <b>1999</b> , 143, 299-306	3.1	29
11	Safety and hemodynamic effects of intravenous triiodothyronine in advanced congestive heart failure. <i>American Journal of Cardiology</i> , <b>1998</b> , 81, 443-7	3	169
10	Lysophosphatidylcholine and Cellular Potassium Loss in Isolated Rabbit Ventricle. <i>Journal of Cardiovascular Pharmacology and Therapeutics</i> , <b>1998</b> , 3, 37-42	2.6	6
9	Beta1 integrins participate in the hypertrophic response of rat ventricular myocytes. <i>Circulation Research</i> , <b>1998</b> , 82, 1160-72	15.7	168
8	Metabolism in Normal and Ischemic Myocardium <b>1997</b> , 325-393		7
7	Endothelium-dependent vasodilators do not cause propagated intercellular Ca <sup>2+</sup> waves in vascular endothelial monolayers. <i>Cell Calcium</i> , <b>1996</b> , 19, 97-104	4	3
6	Excitation-contraction coupling in single guinea-pig ventricular myocytes exposed to hydrogen peroxide. <i>Journal of Physiology</i> , <b>1994</b> , 477, 135-47	3.9	75
5	Effects of physical exercise training in syndrome X. <i>Clinical Cardiology</i> , <b>1993</b> , 16, 65-6	3.3	5
4	Oxygen Free Radicals in the Pathophysiology of Myocardial Ischemia/Reperfusion <b>1993</b> , 250-266		4

3	Oxygen free radicals and cardiac reperfusion abnormalities. <i>Hypertension</i> , <b>1992</b> , 20, 118-27	8.5	152
2	Mechanisms of excitation-contraction coupling failure during metabolic inhibition in guinea-pig ventricular myocytes. <i>Journal of Physiology</i> , <b>1991</b> , 443, 371-86	3.9	53
1	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> , <b>1989</b> , 83, 1800-9	15.9	117