

Steven O Marx

List of Publications by Year in descending order

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81
papers

11,852
citations

57758

44
h-index

69250

77
g-index

83
all docs

83
docs citations

83
times ranked

11041
citing authors

#	ARTICLE	IF	CITATIONS
1	Adrenergic Regulation of Calcium Channels in the Heart. Annual Review of Physiology, 2022, 84, 285-306.	13.1	29
2	Detecting Cardiovascular Protein-Protein Interactions by Proximity Proteomics. Circulation Research, 2022, 130, 273-287.	4.5	11
3	Increased Ca ²⁺ influx through CaV1.2 drives aortic valve calcification. JCI Insight, 2022, 7, .	5.0	10
4	Fibroblast growth factor homologous factors serve as a molecular rheostat in tuning arrhythmogenic cardiac late sodium current. , 2022, 1, 1-13.		8
5	Vasculature remodeling by pressure, caveolae, calcium, and kinases. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2204968119.	7.1	0
6	Adrenergic Ca _v 1.2 Activation via Rad Phosphorylation Converges at I _h Loop. Circulation Research, 2021, 128, 76-88.	4.5	39
7	3-Year Outcomes of Transcatheter Mitral Valve Repair in Patients With Heart Failure. Journal of the American College of Cardiology, 2021, 77, 1029-1040.	2.8	113
8	Use of Proximity Labeling in Cardiovascular Research. JACC Basic To Translational Science, 2021, 6, 598-609.	4.1	2
9	Probing ion channel neighborhoods using proximity proteomics. Methods in Enzymology, 2021, 654, 115-136.	1.0	2
10	Attenuating persistent sodium current-induced atrial myopathy and fibrillation by preventing mitochondrial oxidative stress. JCI Insight, 2021, 6, .	5.0	17
11	Ticagrelor alone vs. ticagrelor plus aspirin following percutaneous coronary intervention in patients with non-ST-segment elevation acute coronary syndromes: TWILIGHT-ACS. European Heart Journal, 2020, 41, 3533-3545.	2.2	93
12	The quest to identify the mechanism underlying adrenergic regulation of cardiac Ca ²⁺ channels. Channels, 2020, 14, 123-131.	2.8	10
13	Removing the Stress From Hypertension-Induced Atrial Fibrillation. JACC Basic To Translational Science, 2020, 5, 616-618.	4.1	0
14	Polymer-based or Polymer-free Stents in Patients at High Bleeding Risk. New England Journal of Medicine, 2020, 382, 1208-1218.	27.0	207
15	Mechanism of adrenergic CaV1.2 stimulation revealed by proximity proteomics. Nature, 2020, 577, 695-700.	27.8	163
16	An interaction between the III-IV linker and CTD in NaV1.5 confers regulation of inactivation by CaM and FHF. Journal of General Physiology, 2020, 152, .	1.9	20
17	Fibroblast growth factor homologous factors tune arrhythmogenic late NaV1.5 current in calmodulin binding-deficient channels. JCI Insight, 2020, 5, .	5.0	16
18	Clinical Outcomes Before and After Complete Everolimus-Eluting Bioresorbable Scaffold Resorption. Circulation, 2019, 140, 1895-1903.	1.6	57

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19	Ticagrelor with or without Aspirin in High-Risk Patients after PCI. <i>New England Journal of Medicine</i> , 2019, 381, 2032-2042.	27.0	683
20	Secretoneurin to the Rescue?. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2019, 12, e007298.	4.8	3
21	Heterogeneity of the action potential duration is required for sustained atrial fibrillation. <i>JCI Insight</i> , 2019, 4, .	5.0	17
22	Cardiac CaV1.2 channels require β_2 subunits for β_2 -adrenergic-mediated modulation but not trafficking. <i>Journal of Clinical Investigation</i> , 2019, 129, 647-658.	8.2	49
23	Roles and Regulation of Voltage-gated Calcium Channels in Arrhythmias. <i>Journal of Innovations in Cardiac Rhythm Management</i> , 2019, 10, 3874-3880.	0.5	8
24	Transcatheter Mitral-Valve Repair in Patients with Heart Failure. <i>New England Journal of Medicine</i> , 2018, 379, 2307-2318.	27.0	2,079
25	1-Year Clinical Outcomes of All-Comer Patients Treated With the Dual-Therapy COMBO Stent. <i>JACC: Cardiovascular Interventions</i> , 2018, 11, 1969-1978.	2.9	21
26	Blinded outcomes and angina assessment of coronary bioresorbable scaffolds: 30-day and 1-year results from the ABSORB IV randomised trial. <i>Lancet, The</i> , 2018, 392, 1530-1540.	13.7	103
27	Calmodulin limits pathogenic Na ⁺ channel persistent current. <i>Journal of General Physiology</i> , 2017, 149, 277-293.	1.9	50
28	3-Year Clinical Outcomes With Everolimus-Eluting Bioresorbable Coronary Scaffolds. <i>Journal of the American College of Cardiology</i> , 2017, 70, 2852-2862.	2.8	202
29	Proteolytic cleavage and PKA phosphorylation of β_1 subunit are not required for adrenergic regulation of Ca _v 1.2 in the heart. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 9194-9199.	7.1	40
30	Novel approaches to examine the regulation of voltage-gated calcium channels in the heart. <i>Current Molecular Pharmacology</i> , 2015, 8, 61-68.	1.5	6
31	The PDZ Motif of the β_1 Subunit Is Not Required for Surface Trafficking and Adrenergic Modulation of CaV1.2 Channel in the Heart. <i>Journal of Biological Chemistry</i> , 2015, 290, 2166-2174.	3.4	9
32	Positions of the cytoplasmic end of BK β_1 S0 helix relative to S1-S6 and of β_1 TM1 and TM2 relative to S0-S6. <i>Journal of General Physiology</i> , 2015, 145, 185-199.	1.9	8
33	Everolimus-Eluting Bioresorbable Scaffolds for Coronary Artery Disease. <i>New England Journal of Medicine</i> , 2015, 373, 1905-1915.	27.0	554
34	Aberrant sodium influx causes cardiomyopathy and atrial fibrillation in mice. <i>Journal of Clinical Investigation</i> , 2015, 126, 112-122.	8.2	68
35	A selective microRNA-based strategy inhibits restenosis while preserving endothelial function. <i>Journal of Clinical Investigation</i> , 2014, 124, 4102-4114.	8.2	157
36	Treatment of experimental asthma using a single small molecule with anti-inflammatory and BK channel-activating properties. <i>FASEB Journal</i> , 2013, 27, 4975-4986.	0.5	31

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37	Dysfunctional ryanodine receptors in the heart: New insights into complex cardiovascular diseases. <i>Journal of Molecular and Cellular Cardiology</i> , 2013, 58, 225-231.	1.9	71
38	Reprogramming of the MicroRNA Transcriptome Mediates Resistance to Rapamycin. <i>Journal of Biological Chemistry</i> , 2013, 288, 6034-6044.	3.4	41
39	Reduced vascular smooth muscle BK channel current underlies heart failure-induced vasoconstriction in mice. <i>FASEB Journal</i> , 2013, 27, 1859-1867.	0.5	20
40	Positions of β_2 and β_3 subunits in the large-conductance calcium- and voltage-activated BK potassium channel. <i>Journal of General Physiology</i> , 2013, 141, 105-117.	1.9	22
41	β -Adrenergic Regulation of the L-type Ca^{2+} Channel Does Not Require Phosphorylation of β_1 Ser ¹⁷⁰⁰ . <i>Circulation Research</i> , 2013, 113, 871-880.	4.5	52
42	Orientations and Proximities of the Extracellular Ends of Transmembrane Helices S0 and S4 in Open and Closed BK Potassium Channels. <i>PLoS ONE</i> , 2013, 8, e58335.	2.5	7
43	Characterization of KCNQ1 atrial fibrillation mutations reveals distinct dependence on KCNE1. <i>Journal of General Physiology</i> , 2012, 139, 135-144.	1.9	34
44	Mice With Cardiac Overexpression of Peroxisome Proliferator-Activated Receptor β_3 Have Impaired Repolarization and Spontaneous Fatal Ventricular Arrhythmias. <i>Circulation</i> , 2011, 124, 2812-2821.	1.6	57
45	Vascular Smooth Muscle Cell Proliferation in Restenosis. <i>Circulation: Cardiovascular Interventions</i> , 2011, 4, 104-111.	3.9	270
46	Cardiac L-type calcium channel ($\text{Ca}_v1.2$) associates with β_3 subunits. <i>FASEB Journal</i> , 2011, 25, 928-936.	0.5	67
47	Location of modulatory β_2 subunits in BK potassium channels. <i>Journal of General Physiology</i> , 2010, 135, 449-459.	1.9	54
48	Molecular Mechanisms, and Selective Pharmacological Rescue, of Rem-Inhibited $\text{Ca}_v1.2$ Channels in Heart. <i>Circulation Research</i> , 2010, 107, 620-630.	4.5	50
49	Rapamycin Regulates Endothelial Cell Migration through Regulation of the Cyclin-dependent Kinase Inhibitor p27Kip1. <i>Journal of Biological Chemistry</i> , 2010, 285, 11991-11997.	3.4	52
50	The BK potassium channel in the vascular smooth muscle and kidney: β_1 - and β_2 -subunits. <i>Kidney International</i> , 2010, 78, 963-974.	5.2	77
51	Location of the β_4 Transmembrane Helices in the BK Potassium Channel. <i>Journal of Neuroscience</i> , 2009, 29, 8321-8328.	3.6	42
52	Location of KCNE1 relative to KCNQ1 in the I_{KS} potassium channel by disulfide cross-linking of substituted cysteines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 743-748.	7.1	84
53	Protein Kinase C Isoforms Differentially Phosphorylate $\text{Ca}_v1.2 \beta_1$. <i>Biochemistry</i> , 2009, 48, 6674-6683.	2.5	53
54	The Locations of the β_4 Transmembrane Helices in the BK Channel. <i>Biophysical Journal</i> , 2009, 96, 475a.	0.5	0

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55	Ion Channels, Transporters, and Pumps as Targets for Heart Failure Therapy. <i>Journal of Cardiovascular Pharmacology</i> , 2009, 54, 273-278.	1.9	7
56	Leptin-enhanced neointimal hyperplasia is reduced by mTOR and PI3K inhibitors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 19006-19011.	7.1	55
57	Locations of the \hat{I}^{21} transmembrane helices in the BK potassium channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 10727-10732.	7.1	63
58	Position and Role of the BK Channel \hat{I}^{\pm} Subunit S0 Helix Inferred from Disulfide Crosslinking. <i>Journal of General Physiology</i> , 2008, 131, 537-548.	1.9	46
59	Protein Kinase G Phosphorylates Ca $\langle\text{sub}\rangle\text{v}\langle\text{sub}\rangle$ 1.2 \hat{I}^{\pm} $\langle\text{sub}\rangle\text{1c}\langle\text{sub}\rangle$ and \hat{I}^2 $\langle\text{sub}\rangle\text{2}\langle\text{sub}\rangle$ Subunits. <i>Circulation Research</i> , 2007, 101, 465-474.	4.5	103
60	Defining the BK channel domains required for beta1-subunit modulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 5096-5101.	7.1	69
61	Activation of the BK (SLO1) Potassium Channel by Mallotoxin. <i>Journal of Biological Chemistry</i> , 2005, 280, 30882-30887.	3.4	59
62	Ser1928 Is a Common Site for Cav1.2 Phosphorylation by Protein Kinase C Isoforms. <i>Journal of Biological Chemistry</i> , 2005, 280, 207-214.	3.4	103
63	Assembly of a Ca ²⁺ -dependent BK channel signaling complex by binding to \hat{I}^2 adrenergic receptor. <i>EMBO Journal</i> , 2004, 23, 2196-2205.	7.8	99
64	Direct interaction between BKCa potassium channel and microtubule-associated protein 1A. <i>FEBS Letters</i> , 2004, 570, 143-148.	2.8	34
65	Ion channel macromolecular complexes in the heart. <i>Journal of Molecular and Cellular Cardiology</i> , 2003, 35, 37-44.	1.9	23
66	Immunophilins and Coupled Gating of Ryanodine Receptors. <i>Current Topics in Medicinal Chemistry</i> , 2003, 3, 1383-1391.	2.1	44
67	Requirement of a Macromolecular Signaling Complex for beta Adrenergic Receptor Modulation of the KCNQ1-KCNE1 Potassium Channel. <i>Science</i> , 2002, 295, 496-499.	12.6	668
68	Regulation of Ryanodine Receptors via Macromolecular Complexes A Novel Role for Leucine/Isoleucine Zippers. <i>Trends in Cardiovascular Medicine</i> , 2002, 12, 166-170.	4.9	76
69	Regulation of the ryanodine receptor in heart failure. <i>Basic Research in Cardiology</i> , 2002, 97, 1-1.	5.9	26
70	Progression of heart failure: is protein kinase a hyperphosphorylation of the ryanodine receptor a contributing factor?. <i>Circulation</i> , 2002, 105, 272-5.	1.6	25
71	Dilated Cardiomyopathy and Sudden Death Resulting From Constitutive Activation of Protein Kinase A. <i>Circulation Research</i> , 2001, 89, 997-1004.	4.5	256
72	FKBP12 Binding Modulates Ryanodine Receptor Channel Gating. <i>Journal of Biological Chemistry</i> , 2001, 276, 16931-16935.	3.4	145

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73	Phosphorylation-Dependent Regulation of Ryanodine Receptors. <i>Journal of Cell Biology</i> , 2001, 153, 699-708.	5.2	275
74	Bench to Bedside. <i>Circulation</i> , 2001, 104, 852-855.	1.6	354
75	Coupled Gating Between Cardiac Calcium Release Channels (Ryanodine Receptors). <i>Circulation Research</i> , 2001, 88, 1151-1158.	4.5	365
76	Role for p27 ^{Kip1} in Vascular Smooth Muscle Cell Migration. <i>Circulation</i> , 2001, 103, 2967-2972.	1.6	173
77	PKA Phosphorylation Dissociates FKBP12.6 from the Calcium Release Channel (Ryanodine Receptor). <i>Cell</i> , 2000, 101, 365-376.	28.9	1,856
78	Inhibition of Intimal Thickening After Balloon Angioplasty in Porcine Coronary Arteries by Targeting Regulators of the Cell Cycle. <i>Circulation</i> , 1999, 99, 2164-2170.	1.6	463
79	Cell Cycle Progression and Proliferation Despite 4BP-1 Dephosphorylation. <i>Molecular and Cellular Biology</i> , 1999, 19, 6041-6047.	2.3	30
80	FKBP12 Modulates Gating of the Ryanodine Receptor/Calcium Release Channels. <i>Annals of the New York Academy of Sciences</i> , 1998, 853, 149-156.	3.8	27
81	Rapamycin-FKBP Inhibits Cell Cycle Regulators of Proliferation in Vascular Smooth Muscle Cells. <i>Circulation Research</i> , 1995, 76, 412-417.	4.5	470