# 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 | Transcatheter Mitral-Valve Repair in Patients with Heart Failure. New England Journal of Medicine, 2018, 379, 2307-2318. | 27.0 | 2,079 |
| 2 | PKA Phosphorylation Dissociates FKBP12.6 from the Calcium Release Channel (Ryanodine Receptor). Cell, 2000, 101, 365-376. | 28.9 | 1,856 |
| 3 | Ticagrelor with or without Aspirin in High-Risk Patients after PCI. New England Journal of Medicine, 2019, 381, 2032-2042. | 27.0 | 683 |
| 4 | Requirement of a Macromolecular Signaling Complex for beta Adrenergic Receptor Modulation of the KCNQ1-KCNE1 Potassium Channel. Science, 2002, 295, 496-499. | 12.6 | 668 |
| 5 | Everolimus-Eluting Bioresorbable Scaffolds for Coronary Artery Disease. New England Journal of Medicine, 2015, 373, 1905-1915. | 27.0 | 554 |
| 6 | Rapamycin-FKBP Inhibits Cell Cycle Regulators of Proliferation in Vascular Smooth Muscle Cells. Circulation Research, 1995, 76, 412-417. | 4.5 | 470 |
| 7 | Inhibition of Intimal Thickening After Balloon Angioplasty in Porcine Coronary Arteries by Targeting Regulators of the Cell Cycle. Circulation, 1999, 99, 2164-2170. | 1.6 | 463 |
| 8 | Coupled Gating Between Cardiac Calcium Release Channels (Ryanodine Receptors). Circulation Research, 2001, 88, 1151-1158. | 4.5 | 365 |
| 9 | Bench to Bedside. Circulation, 2001, 104, 852-855. | 1.6 | 354 |
| 10 | Phosphorylation-Dependent Regulation of Ryanodine Receptors. Journal of Cell Biology, 2001, 153, 699-708. | 5.2 | 275 |
| 11 | Vascular Smooth Muscle Cell Proliferation in Restenosis. Circulation: Cardiovascular Interventions, 2011, 4, 104-111. | 3.9 | 270 |
| 12 | Dilated Cardiomyopathy and Sudden Death Resulting From Constitutive Activation of Protein Kinase A. Circulation Research, 2001, 89, 997-1004. | 4.5 | 256 |
| 13 | Polymer-based or Polymer-free Stents in Patients at High Bleeding Risk. New England Journal of Medicine, 2020, 382, 1208-1218. | 27.0 | 207 |
| 14 | 3-Year Clinical Outcomes WithÂEverolimus-Eluting BioresorbableÂCoronary Scaffolds. Journal of the American College of Cardiology, 2017, 70, 2852-2862. | 2.8 | 202 |
| 15 | Role for p27 <sup>Kip1</sup> in Vascular Smooth Muscle Cell Migration. Circulation, 2001, 103, 2967-2972. | 1.6 | 173 |
| 16 | Mechanism of adrenergic CaV1.2 stimulation revealed by proximity proteomics. Nature, 2020, 577, 695-700. | 27.8 | 163 |
| 17 | A selective microRNA-based strategy inhibits restenosis while preserving endothelial function. Journal of Clinical Investigation, 2014, 124, 4102-4114. | 8.2 | 157 |
| 18 | FKBP12 Binding Modulates Ryanodine Receptor Channel Gating. Journal of Biological Chemistry, 2001, 276, 16931-16935. | 3.4 | 145 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 3-Year Outcomes of Transcatheter Mitral Valve Repair in Patients With HeartÂFailure. Journal of the American College of Cardiology, 2021, 77, 1029-1040. | 2.8 | 113 |
| 20 | Ser1928 Is a Common Site for Cav1.2 Phosphorylation by Protein Kinase C Isoforms. Journal of Biological Chemistry, 2005, 280, 207-214. | 3.4 | 103 |
| 21 | Protein Kinase G Phosphorylates Ca <sub>v</sub> 1.2 Î± <sub>1c</sub> and Î² <sub>2</sub> Subunits. Circulation Research, 2007, 101, 465-474. | 4.5 | 103 |
| 22 | Blinded outcomes and angina assessment of coronary bioresorbable scaffolds: 30-day and 1-year results from the ABSORB IV randomised trial. Lancet, The, 2018, 392, 1530-1540. | 13.7 | 103 |
| 23 | Assembly of a Ca2+-dependent BK channel signaling complex by binding to Î²2 adrenergic receptor. EMBO Journal, 2004, 23, 2196-2205. | 7.8 | 99 |
| 24 | 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 |
| 25 | Location of KCNE1 relative to KCNQ1 in the I <sub>KS</sub> potassium channel by disulfide cross-linking of substituted cysteines. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 743-748. | 7.1 | 84 |
| 26 | The BK potassium channel in the vascular smooth muscle and kidney: Î±- and Î²-subunits. Kidney International, 2010, 78, 963-974. | 5.2 | 77 |
| 27 | Regulation of Ryanodine Receptors via Macromolecular Complexes A Novel Role for Leucine/Isoleucine Zippers. Trends in Cardiovascular Medicine, 2002, 12, 166-170. | 4.9 | 76 |
| 28 | Dysfunctional ryanodine receptors in the heart: New insights into complex cardiovascular diseases. Journal of Molecular and Cellular Cardiology, 2013, 58, 225-231. | 1.9 | 71 |
| 29 | Defining the BK channel domains required for beta1-subunit modulation. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5096-5101. | 7.1 | 69 |
| 30 | Aberrant sodium influx causes cardiomyopathy and atrial fibrillation in mice. Journal of Clinical Investigation, 2015, 126, 112-122. | 8.2 | 68 |
| 31 | Cardiac Lâ€type calcium channel (Ca<sub>v</sub>1.2) associates with Î³ subunits. FASEB Journal, 2011, 25, 928-936. | 0.5 | 67 |
| 32 | Locations of the Î²1 transmembrane helices in the BK potassium channel. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10727-10732. | 7.1 | 63 |
| 33 | Activation of the BK (SLO1) Potassium Channel by Mallotoxin. Journal of Biological Chemistry, 2005, 280, 30882-30887. | 3.4 | 59 |
| 34 | Mice With Cardiac Overexpression of Peroxisome Proliferatorâ€“Activated Receptor Î³ Have Impaired Repolarization and Spontaneous Fatal Ventricular Arrhythmias. Circulation, 2011, 124, 2812-2821. | 1.6 | 57 |
| 35 | Clinical Outcomes Before and After Complete Everolimus-Eluting Bioresorbable Scaffold Resorption. Circulation, 2019, 140, 1895-1903. | 1.6 | 57 |
| 36 | Leptin-enhanced neointimal hyperplasia is reduced by mTOR and PI3K inhibitors. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19006-19011. | 7.1 | 55 |

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|---|---|---|---|
| 37 | Location of modulatory Î² subunits in BK potassium channels. Journal of General Physiology, 2010, 135, 449-459. | 1.9 | 54 |
| 38 | Protein Kinase C Isoforms Differentially Phosphorylate Ca<sub>v</sub>1.2 Î±<sub>1c</sub>. Biochemistry, 2009, 48, 6674-6683. | 2.5 | 53 |
| 39 | Rapamycin Regulates Endothelial Cell Migration through Regulation of the Cyclin-dependent Kinase Inhibitor p27Kip1. Journal of Biological Chemistry, 2010, 285, 11991-11997. | 3.4 | 52 |
| 40 | Î²-Adrenergic Regulation of the L-type Ca <sup>2+</sup> Channel Does Not Require Phosphorylation of Î± <sub>1C</sub> Ser <sup>1700</sup>. Circulation Research, 2013, 113, 871-880. | 4.5 | 52 |
| 41 | Molecular Mechanisms, and Selective Pharmacological Rescue, of Rem-Inhibited Ca <sub>V</sub> 1.2 Channels in Heart. Circulation Research, 2010, 107, 620-630. | 4.5 | 50 |
| 42 | Calmodulin limits pathogenic Na+ channel persistent current. Journal of General Physiology, 2017, 149, 277-293. | 1.9 | 50 |
| 43 | Cardiac CaV1.2 channels require Î² subunits for Î²-adrenergicâ€"mediated modulation but not trafficking. Journal of Clinical Investigation, 2019, 129, 647-658. | 8.2 | 49 |
| 44 | Position and Role of the BK Channel Î± Subunit S0 Helix Inferred from Disulfide Crosslinking. Journal of General Physiology, 2008, 131, 537-548. | 1.9 | 46 |
| 45 | Immunophilins and Coupled Gating of Ryanodine Receptors. Current Topics in Medicinal Chemistry, 2003, 3, 1383-1391. | 2.1 | 44 |
| 46 | Location of the Â4 Transmembrane Helices in the BK Potassium Channel. Journal of Neuroscience, 2009, 29, 8321-8328. | 3.6 | 42 |
| 47 | Reprogramming of the MicroRNA Transcriptome Mediates Resistance to Rapamycin. Journal of Biological Chemistry, 2013, 288, 6034-6044. | 3.4 | 41 |
| 48 | Proteolytic cleavage and PKA phosphorylation of Î± <sub>1C</sub> subunit are not required for adrenergic regulation of Ca <sub>V</sub> 1.2 in the heart. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9194-9199. | 7.1 | 40 |
| 49 | Adrenergic Ca <sub>V</sub> 1.2 Activation via Rad Phosphorylation Converges at Î± <sub>1C</sub> I-II Loop. Circulation Research, 2021, 128, 76-88. | 4.5 | 39 |
| 50 | Direct interaction between BKCa potassium channel and microtubule-associated protein 1A. FEBS Letters, 2004, 570, 143-148. | 2.8 | 34 |
| 51 | Characterization of KCNQ1 atrial fibrillation mutations reveals distinct dependence on KCNE1. Journal of General Physiology, 2012, 139, 135-144. | 1.9 | 34 |
| 52 | Treatment of experimental asthma using a single small molecule with antiâ€inflammatory and BK channelâ€activating properties. FASEB Journal, 2013, 27, 4975-4986. | 0.5 | 31 |
| 53 | Cell Cycle Progression and Proliferation Despite 4BP-1 Dephosphorylation. Molecular and Cellular Biology, 1999, 19, 6041-6047. | 2.3 | 30 |
| 54 | Adrenergic Regulation of Calcium Channels in the Heart. Annual Review of Physiology, 2022, 84, 285-306. | 13.1 | 29 |

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|---|---|---|---|
| 55 | FKBP12 Modulates Gating of the Ryanodine Receptor/Calcium Release Channela. Annals of the New York Academy of Sciences, 1998, 853, 149-156. | 3.8 | 27 |
| 56 | Regulation of the ryanodine receptor in heart failure. Basic Research in Cardiology, 2002, 97, 1-1. | 5.9 | 26 |
| 57 | Progression of heart failure: is protein kinase a hyperphosphorylation of the ryanodine receptor a contributing factor?. Circulation, 2002, 105, 272-5. | 1.6 | 25 |
| 58 | Ion channel macromolecular complexes in the heart. Journal of Molecular and Cellular Cardiology, 2003, 35, 37-44. | 1.9 | 23 |
| 59 | Positions of Î²2 and Î²3 subunits in the large-conductance calcium- and voltage-activated BK potassium channel. Journal of General Physiology, 2013, 141, 105-117. | 1.9 | 22 |
| 60 | 1-Year Clinical Outcomes of All-Comer Patients Treated With the Dual-Therapy COMBO Stent. JACC: Cardiovascular Interventions, 2018, 11, 1969-1978. | 2.9 | 21 |
| 61 | Reduced vascular smooth muscle BK channel current underlies heart failureâ€induced vasoconstriction in mice. FASEB Journal, 2013, 27, 1859-1867. | 0.5 | 20 |
| 62 | 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 |
| 63 | Heterogeneity of the action potential duration is required for sustained atrial fibrillation. JCI Insight, 2019, 4, . | 5.0 | 17 |
| 64 | Attenuating persistent sodium currentâ€“induced atrial myopathy and fibrillation by preventing mitochondrial oxidative stress. JCI Insight, 2021, 6, . | 5.0 | 17 |
| 65 | Fibroblast growth factor homologous factors tune arrhythmogenic late NaV1.5 current in calmodulin bindingâ€“deficient channels. JCI Insight, 2020, 5, . | 5.0 | 16 |
| 66 | Detecting Cardiovascular Protein-Protein Interactions by Proximity Proteomics. Circulation Research, 2022, 130, 273-287. | 4.5 | 11 |
| 67 | The quest to identify the mechanism underlying adrenergic regulation of cardiac Ca2+ channels. Channels, 2020, 14, 123-131. | 2.8 | 10 |
| 68 | Increased Ca2+ influx through CaV1.2 drives aortic valve calcification. JCI Insight, 2022, 7, . | 5.0 | 10 |
| 69 | The PDZ Motif of the Î±1C Subunit Is Not Required for Surface Trafficking and Adrenergic Modulation of CaV1.2 Channel in the Heart. Journal of Biological Chemistry, 2015, 290, 2166-2174. | 3.4 | 9 |
| 70 | Positions of the cytoplasmic end of BK Î± S0 helix relative to S1â€“S6 and of Î²1 TM1 and TM2 relative to S0â€“S6. Journal of General Physiology, 2015, 145, 185-199. | 1.9 | 8 |
| 71 | Roles and Regulation of Voltage-gated Calcium Channels in Arrhythmias. Journal of Innovations in Cardiac Rhythm Management, 2019, 10, 3874-3880. | 0.5 | 8 |
| 72 | Fibroblast growth factor homologous factors serve as a molecular rheostat in tuning arrhythmogenic cardiac late sodium current. , 2022, 1, 1-13. | | 8 |

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|---|---|---|---|
| 73 | Ion Channels, Transporters, and Pumps as Targets for Heart Failure Therapy. Journal of Cardiovascular Pharmacology, 2009, 54, 273-278. | 1.9 | 7 |
| 74 | Orientations and Proximities of the Extracellular Ends of Transmembrane Helices S0 and S4 in Open and Closed BK Potassium Channels. PLoS ONE, 2013, 8, e58335. | 2.5 | 7 |
| 75 | Novel approaches to examine the regulation of voltage-gated calcium channels in the heart. Current Molecular Pharmacology, 2015, 8, 61-68. | 1.5 | 6 |
| 76 | Secretoneurin to the Rescue?. Circulation: Arrhythmia and Electrophysiology, 2019, 12, e007298. | 4.8 | 3 |
| 77 | Use of Proximity Labeling in Cardiovascular Research. JACC Basic To Translational Science, 2021, 6, 598-609. | 4.1 | 2 |
| 78 | Probing ion channel neighborhoods using proximity proteomics. Methods in Enzymology, 2021, 654, 115-136. | 1.0 | 2 |
| 79 | The Locations of the Beta4 Transmembrane Helices in the BK Channel. Biophysical Journal, 2009, 96, 475a. | 0.5 | 0 |
| 80 | Removing the Stress From Hypertension-Induced Atrial Fibrillation. JACC Basic To Translational Science, 2020, 5, 616-618. | 4.1 | 0 |
| 81 | 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 |