

Robin M Shaw

List of Publications by Citations

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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.

68

papers

4,556

citations

30

h-index

67

g-index

79

ext. papers

5,279

ext. citations

10.5

avg, IF

5.52

L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 68 | Ionic mechanisms of propagation in cardiac tissue. Roles of the sodium and L-type calcium currents during reduced excitability and decreased gap junction coupling. <i>Circulation Research</i> , 1997 , 81, 727-41 | 15.7 | 452 |
| 67 | Cardiac fibroblasts regulate myocardial proliferation through beta1 integrin signaling. <i>Developmental Cell</i> , 2009 , 16, 233-44 | 10.2 | 424 |
| 66 | Microtubule plus-end-tracking proteins target gap junctions directly from the cell interior to adherens junctions. <i>Cell</i> , 2007 , 128, 547-60 | 56.2 | 374 |
| 65 | Foxn4 directly regulates tbx2b expression and atrioventricular canal formation. <i>Genes and Development</i> , 2008 , 22, 734-9 | 12.6 | 258 |
| 64 | Electrophysiologic effects of acute myocardial ischemia: a theoretical study of altered cell excitability and action potential duration. <i>Cardiovascular Research</i> , 1997 , 35, 256-72 | 9.9 | 222 |
| 63 | Genetic and physiologic dissection of the vertebrate cardiac conduction system. <i>PLoS Biology</i> , 2008 , 6, e109 | 9.7 | 196 |
| 62 | Stromal cell-derived factor-1alpha is cardioprotective after myocardial infarction. <i>Circulation</i> , 2008 , 117, 2224-31 | 16.7 | 182 |
| 61 | Limited forward trafficking of connexin 43 reduces cell-cell coupling in stressed human and mouse myocardium. <i>Journal of Clinical Investigation</i> , 2010 , 120, 266-79 | 15.9 | 168 |
| 60 | BIN1 localizes the L-type calcium channel to cardiac T-tubules. <i>PLoS Biology</i> , 2010 , 8, e1000312 | 9.7 | 158 |
| 59 | Cardiac BIN1 folds T-tubule membrane, controlling ion flux and limiting arrhythmia. <i>Nature Medicine</i> , 2014 , 20, 624-32 | 50.5 | 150 |
| 58 | Electrophysiologic effects of acute myocardial ischemia. A mechanistic investigation of action potential conduction and conduction failure. <i>Circulation Research</i> , 1997 , 80, 124-38 | 15.7 | 149 |
| 57 | Mammalian electrophysiology on a microfluidic platform. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 9112-7 | 11.5 | 145 |
| 56 | BIN1 is reduced and Cav1.2 trafficking is impaired in human failing cardiomyocytes. <i>Heart Rhythm</i> , 2012 , 9, 812-20 | 6.7 | 103 |
| 55 | Actin cytoskeleton rest stops regulate anterograde traffic of connexin 43 vesicles to the plasma membrane. <i>Circulation Research</i> , 2012 , 110, 978-89 | 15.7 | 101 |
| 54 | L-type calcium channel targeting and local signalling in cardiac myocytes. <i>Cardiovascular Research</i> , 2013 , 98, 177-86 | 9.9 | 100 |
| 53 | Autoregulation of connexin43 gap junction formation by internally translated isoforms. <i>Cell Reports</i> , 2013 , 5, 611-8 | 10.6 | 95 |
| 52 | Microfluidic application-specific integrated device for monitoring direct cell-cell communication via gap junctions between individual cell pairs. <i>Applied Physics Letters</i> , 2005 , 86, 223902 | 3.4 | 95 |

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| 51 | Cardiac T-Tubule Microanatomy and Function. <i>Physiological Reviews</i> , 2017 , 97, 227-252 | 47.9 | 91 |
| 50 | Cardiac conduction is required to preserve cardiac chamber morphology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 14662-7 | 11.5 | 90 |
| 49 | Iroquois homeobox gene 3 establishes fast conduction in the cardiac His-Purkinje network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 13576-81 | 11.5 | 84 |
| 48 | The vulnerable window for unidirectional block in cardiac tissue: characterization and dependence on membrane excitability and intercellular coupling. <i>Journal of Cardiovascular Electrophysiology</i> , 1995 , 6, 115-31 | 2.7 | 72 |
| 47 | A 14-3-3 mode-1 binding motif initiates gap junction internalization during acute cardiac ischemia. <i>Traffic</i> , 2014 , 15, 684-99 | 5.7 | 63 |
| 46 | Dynasore protects mitochondria and improves cardiac lusitropy in Langendorff perfused mouse heart. <i>PLoS ONE</i> , 2013 , 8, e60967 | 3.7 | 61 |
| 45 | Redox-sensitive sulfenic acid modification regulates surface expression of the cardiovascular voltage-gated potassium channel Kv1.5. <i>Circulation Research</i> , 2012 , 111, 842-53 | 15.7 | 60 |
| 44 | Intracellular trafficking pathways of Cx43 gap junction channels. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018 , 1860, 40-47 | 3.8 | 55 |
| 43 | GJA1-20k Arranges Actin to Guide Cx43 Delivery to Cardiac Intercalated Discs. <i>Circulation Research</i> , 2017 , 121, 1069-1080 | 15.7 | 50 |
| 42 | Na ⁺ channel function, regulation, structure, trafficking and sequestration. <i>Journal of Physiology</i> , 2015 , 593, 1347-60 | 3.9 | 42 |
| 41 | Cx43 Isoform GJA1-20k Promotes Microtubule Dependent Mitochondrial Transport. <i>Frontiers in Physiology</i> , 2017 , 8, 905 | 4.6 | 40 |
| 40 | Stress response protein GJA1-20k promotes mitochondrial biogenesis, metabolic quiescence, and cardioprotection against ischemia/reperfusion injury. <i>JCI Insight</i> , 2018 , 3, | 9.9 | 39 |
| 39 | Plasma BIN1 correlates with heart failure and predicts arrhythmia in patients with arrhythmogenic right ventricular cardiomyopathy. <i>Heart Rhythm</i> , 2012 , 9, 961-7 | 6.7 | 38 |
| 38 | Role for myosin-V motor proteins in the selective delivery of Kv channel isoforms to the membrane surface of cardiac myocytes. <i>Circulation Research</i> , 2014 , 114, 982-92 | 15.7 | 27 |
| 37 | Forward trafficking of ion channels: what the clinician needs to know. <i>Heart Rhythm</i> , 2010 , 7, 1135-40 | 6.7 | 26 |
| 36 | Multilayered regulation of cardiac ion channels. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013 , 1833, 876-85 | 4.9 | 23 |
| 35 | The gap junction life cycle. <i>Heart Rhythm</i> , 2012 , 9, 151-3 | 6.7 | 23 |
| 34 | Validation of the Registry to Evaluate Early and Long-Term Pulmonary Arterial Hypertension Disease Management (REVEAL) pulmonary hypertension prediction model in a unique population and utility in the prediction of long-term survival. <i>Journal of Heart and Lung Transplantation</i> , 2012 , 31, 1165-70 | 5.8 | 22 |

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| 33 | Association of a Novel Diagnostic Biomarker, the Plasma Cardiac Bridging Integrator 1 Score, With Heart Failure With Preserved Ejection Fraction and Cardiovascular Hospitalization. <i>JAMA Cardiology</i> , 2018 , 3, 1206-1210 | 16.2 | 21 |
| 32 | Connexin 43 and CaV1.2 Ion Channel Trafficking in Healthy and Diseased Myocardium. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2016 , 9, e001357 | 6.4 | 19 |
| 31 | Trafficking highways to the intercalated disc: new insights unlocking the specificity of connexin 43 localization. <i>Cell Communication and Adhesion</i> , 2014 , 21, 43-54 | | 18 |
| 30 | The "tail" of Connexin43: An unexpected journey from alternative translation to trafficking. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016 , 1863, 1848-56 | 4.9 | 18 |
| 29 | 3-OST-7 regulates BMP-dependent cardiac contraction. <i>PLoS Biology</i> , 2013 , 11, e1001727 | 9.7 | 17 |
| 28 | The ESCRT-III pathway facilitates cardiomyocyte release of cBIN1-containing microparticles. <i>PLoS Biology</i> , 2017 , 15, e2002354 | 9.7 | 17 |
| 27 | Auxiliary trafficking subunit GJA1-20k protects connexin-43 from degradation and limits ventricular arrhythmias. <i>Journal of Clinical Investigation</i> , 2020 , 130, 4858-4870 | 15.9 | 16 |
| 26 | Acute vincristine pretreatment protects adult mouse cardiac myocytes from oxidative stress. <i>Journal of Molecular and Cellular Cardiology</i> , 2007 , 43, 327-36 | 5.8 | 15 |
| 25 | A micropatterning approach for imaging dynamic Cx43 trafficking to cell-cell borders. <i>FEBS Letters</i> , 2014 , 588, 1439-45 | 3.8 | 14 |
| 24 | Performance of the REVEAL model in WHO Group 2 to 5 pulmonary hypertension: application beyond pulmonary arterial hypertension. <i>Journal of Heart and Lung Transplantation</i> , 2013 , 32, 293-8 | 5.8 | 14 |
| 23 | Cardiac excitation: an interactive process of ion channels and gap junctions. <i>Advances in Experimental Medicine and Biology</i> , 1997 , 430, 269-79 | 3.6 | 12 |
| 22 | Cardiomyocyte protein trafficking: Relevance to heart disease and opportunities for therapeutic intervention. <i>Trends in Cardiovascular Medicine</i> , 2015 , 25, 379-89 | 6.9 | 11 |
| 21 | Rad-deletion Phenocopies Tonic Sympathetic Stimulation of the Heart. <i>Journal of Cardiovascular Translational Research</i> , 2016 , 9, 432-444 | 3.3 | 10 |
| 20 | In Mice Subjected to Chronic Stress, Exogenous cBIN1 Preserves Calcium-Handling Machinery and Cardiac Function. <i>JACC Basic To Translational Science</i> , 2020 , 5, 561-578 | 8.7 | 8 |
| 19 | Visualizing ion channel dynamics at the plasma membrane. <i>Heart Rhythm</i> , 2008 , 5, S7-11 | 6.7 | 8 |
| 18 | An Alternatively Translated Connexin 43 Isoform, GJA1-11k, Localizes to the Nucleus and Can Inhibit Cell Cycle Progression. <i>Biomolecules</i> , 2020 , 10, | 5.9 | 7 |
| 17 | Desmosomal hotspots, microtubule delivery, and cardiac arrhythmogenesis. <i>Developmental Cell</i> , 2014 , 31, 139-40 | 10.2 | 7 |
| 16 | Exogenous Cardiac Bridging Integrator 1 Benefits Mouse Hearts With Pre-existing Pressure Overload-Induced Heart Failure. <i>Frontiers in Physiology</i> , 2020 , 11, 708 | 4.6 | 6 |

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| 15 | cBIN1 Score (CS) Identifies Ambulatory HFrEF Patients and Predicts Cardiovascular Events. <i>Frontiers in Physiology</i> , 2020 , 11, 503 | 4.6 | 5 |
| 14 | Visualizing cardiac ion channel trafficking pathways. <i>Methods in Enzymology</i> , 2012 , 505, 187-202 | 1.7 | 5 |
| 13 | Cardiac muscle is not a uniform syncytium. <i>Biophysical Journal</i> , 2010 , 98, 3102-3; discussion 3104-5 | 2.9 | 5 |
| 12 | A role for connexin-43 in Duchenne muscular dystrophy cardiomyopathy. <i>Journal of Clinical Investigation</i> , 2020 , 130, 1608-1610 | 15.9 | 3 |
| 11 | Protective mitochondrial fission induced by stress-responsive protein GJA1-20k. <i>ELife</i> , 2021 , 10, | 8.9 | 2 |
| 10 | Protective mitochondrial fission induced by stress responsive protein GJA1-20k | | 2 |
| 9 | Letter by Nikolova et al Regarding Article, "Heart Failure With Preserved Ejection Fraction in Perspective". <i>Circulation Research</i> , 2019 , 125, e24-e25 | 15.7 | 1 |
| 8 | GJA1-20k, an internally translated isoform of Connexin 43, is an actin capping protein | | 1 |
| 7 | SARS-CoV-2 as an inflammatory cardiovascular disease: current knowledge and future challenges. <i>Future Cardiology</i> , 2021 , 17, 1277-1291 | 1.3 | 1 |
| 6 | Association of coronary microvascular dysfunction and cardiac bridge integrator 1, a cardiomyocyte dysfunction biomarker. <i>Clinical Cardiology</i> , 2021 , 44, 1586-1593 | 3.3 | 1 |
| 5 | Gap Junctions and the Spread of Electrical Excitation. <i>Developments in Cardiovascular Medicine</i> , 1998 , 125-147 | | 1 |
| 4 | GJA1-20k and Mitochondrial Dynamics.. <i>Frontiers in Physiology</i> , 2022 , 13, 867358 | 4.6 | 0 |
| 3 | Ion Channel Trafficking in the Heart 2018 , 160-166 | | |
| 2 | Ion Channel Trafficking in the Heart 2014 , 171-178 | | |
| 1 | Correlating Cardiac Origin Neurohormonal Stress Levels With Heart Failure Outcomes. <i>JAMA Cardiology</i> , 2020 , 5, 326-327 | 16.2 | |