# Cynthia A Carnes

List of Publications by Year
in descending order

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Version: 2024-02-01

| 93 | 5,828 | 109137 | 74018 |
|---|---|---|---|
| papers | citations | 35 h-index | 75 g-index |

| 95 | 95 | 95 | 6344 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | C-Reactive Protein Elevation in Patients With Atrial Arrhythmias. Circulation, 2001, 104, 2886-2891. | 1.6 | 1,299 |
| 2 | Impaired Myofibrillar Energetics and Oxidative Injury During Human Atrial Fibrillation. Circulation, 2001, 104, 174-180. | 1.6 | 620 |
| 3 | Ascorbate Attenuates Atrial Pacing-Induced Peroxynitrite Formation and Electrical Remodeling and Decreases the Incidence of Postoperative Atrial Fibrillation. Circulation Research, 2001, 89, E32-8. | 2.0 | 448 |
| 4 | Redox Modification of Ryanodine Receptors Contributes to Sarcoplasmic Reticulum Ca <sup>2+</sup> Leak in Chronic Heart Failure. Circulation Research, 2008, 103, 1466-1472. | 2.0 | 315 |
| 5 | Abnormal intrastore calcium signaling in chronic heart failure. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14104-14109. | 3.3 | 182 |
| 6 | MicroRNA-1 and -133 Increase Arrhythmogenesis in Heart Failure by Dissociating Phosphatase Activity from RyR2 Complex. PLoS ONE, 2011, 6, e28324. | 1.1 | 134 |
| 7 | Redox modification of ryanodine receptors underlies calcium alternans in a canine model of sudden cardiac death. Cardiovascular Research, 2009, 84, 387-395. | 1.8 | 133 |
| 8 | Differential expression of sarcolipin protein during muscle development and cardiac pathophysiology. Journal of Molecular and Cellular Cardiology, 2007, 43, 215-222. | 0.9 | 127 |
| 9 | Mechanisms of impaired calcium handling underlying subclinical diastolic dysfunction in diabetes. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 293, R1787-R1797. | 0.9 | 112 |
| 10 | Mechanisms of Disease: Î²-adrenergic receptorsâ€"alterations in signal transduction and pharmacogenomics in heart failure. Nature Clinical Practice Cardiovascular Medicine, 2005, 2, 475-483. | 3.3 | 111 |
| 11 | The relationship between arrhythmogenesis and impaired contractility in heart failure: role of altered ryanodine receptor function. Cardiovascular Research, 2011, 90, 493-502. | 1.8 | 109 |
| 12 | Atrial Glutathione Content, Calcium Current, and Contractility. Journal of Biological Chemistry, 2007, 282, 28063-28073. | 1.6 | 103 |
| 13 | Shortened Ca <sup>2+</sup> Signaling Refractoriness Underlies Cellular Arrhythmogenesis in a Postinfarction Model of Sudden Cardiac Death. Circulation Research, 2012, 110, 569-577. | 2.0 | 99 |
| 14 | Enhanced Ryanodine Receptor-Mediated Calcium Leak Determines Reduced Sarcoplasmic Reticulum Calcium Content in Chronic Canine Heart Failure. Biophysical Journal, 2007, 93, 4083-4092. | 0.2 | 94 |
| 15 | Transgenic Mice with Cardiac-Specific Expression of Activating Transcription Factor 3, a Stress-Inducible Gene, Have Conduction Abnormalities and Contractile Dysfunction. American Journal of Pathology, 2001, 159, 639-650. | 1.9 | 92 |
| 16 | Molecular Mechanisms Underlying Cardiac Protein Phosphatase 2A Regulation in Heart. Journal of Biological Chemistry, 2013, 288, 1032-1046. | 1.6 | 77 |
| 17 | Tetrahydrobiopterin depletion and NOS2 uncoupling contribute to heart failure-induced alterations in atrial electrophysiology. Cardiovascular Research, 2011, 91, 71-79. | 1.8 | 70 |
| 18 | Upregulation of Adenosine A1 Receptors Facilitates Sinoatrial Node Dysfunction in Chronic Canine Heart Failure by Exacerbating Nodal Conduction Abnormalities Revealed by Novel Dual-Sided Intramural Optical Mapping. Circulation, 2014, 130, 315-324. | 1.6 | 70 |

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|---|---|---|---|
| 19 | Chronic heart failure and the substrate for atrial fibrillation. Cardiovascular Research, 2009, 84, 227-236. | 1.8 | 67 |
| 20 | Calcium-Activated Potassium Current Modulates Ventricular Repolarization in Chronic Heart Failure. PLoS ONE, 2014, 9, e108824. | 1.1 | 62 |
| 21 | Dysregulated sarcoplasmic reticulum calcium release: Potential pharmacological target in cardiac disease. , 2008, 119, 340-354. | | 57 |
| 22 | â€˜Ryanopathyâ€™: causes and manifestations of RyR2 dysfunction in heart failure. Cardiovascular Research, 2013, 98, 240-247. | 1.8 | 57 |
| 23 | Dysfunction in the Î²II Spectrinâ€“Dependent Cytoskeleton Underlies Human Arrhythmia. Circulation, 2015, 131, 695-708. | 1.6 | 56 |
| 24 | n-3 (omega-3) polyunsaturated fatty acids prevent acute atrial electrophysiological remodeling. British Journal of Pharmacology, 2007, 150, 281-285. | 2.7 | 53 |
| 25 | A mutation in calsequestrin, CASQ2D307H, impairs Sarcoplasmic Reticulum Ca2+ handling and causes complex ventricular arrhythmias in mice. Cardiovascular Research, 2007, 75, 69-78. | 1.8 | 52 |
| 26 | Age-dependent changes in contraction and regional myocardial myosin heavy chain isoform expression in rats. Journal of Applied Physiology, 2004, 97, 446-453. | 1.2 | 49 |
| 27 | In Utero Particulate Matter Exposure Produces Heart Failure, Electrical Remodeling, and Epigenetic Changes at Adulthood. Journal of the American Heart Association, 2017, 6, . | 1.6 | 46 |
| 28 | Protein phosphatase 2A regulatory subunit B56Î± limits phosphatase activity in the heart. Science Signaling, 2015, 8, ra72. | 1.6 | 45 |
| 29 | Effect of Barcode-assisted Medication Administration on Emergency Department Medication Errors. Academic Emergency Medicine, 2013, 20, 801-806. | 0.8 | 43 |
| 30 | Sinoatrial Node Reentry in a Canine Chronic Left Ventricular Infarct Model. Circulation: Arrhythmia and Electrophysiology, 2013, 6, 984-994. | 2.1 | 41 |
| 31 | Age and anesthetic effects on murine electrocardiography. Life Sciences, 2003, 72, 2401-2412. | 2.0 | 39 |
| 32 | The plateau outward current in canine ventricle, sensitive to 4â€aminopyridine, is a constitutive contributor to ventricular repolarization. British Journal of Pharmacology, 2007, 152, 870-879. | 2.7 | 38 |
| 33 | Effects of dietary omegaâ€“3 fatty acids on ventricular function in dogs with healed myocardial infarctions: in vivo and in vitro studies. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H1219-H1228. | 1.5 | 38 |
| 34 | Nitric Oxide Synthases and Atrial Fibrillation. Frontiers in Physiology, 2012, 3, 105. | 1.3 | 37 |
| 35 | Up-regulation of sarcoplasmic reticulum Ca2+ uptake leads to cardiac hypertrophy, contractile dysfunction and early mortality in mice deficient in CASQ2. Cardiovascular Research, 2013, 98, 297-306. | 1.8 | 37 |
| 36 | Chronic cardiac resynchronization therapy and reverse ventricular remodeling in a model of nonischemic cardiomyopathy. Life Sciences, 2007, 81, 1152-1159. | 2.0 | 36 |

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|---|---|---|---|
| 37 | Arrhythmogenic adverse effects of cardiac glycosides are mediated by redox modification of ryanodine receptors. Journal of Physiology, 2011, 589, 4697-4708. | 1.3 | 36 |
| 38 | Differential regulation of EHD3 in human and mammalian heart failure. Journal of Molecular and Cellular Cardiology, 2012, 52, 1183-1190. | 0.9 | 34 |
| 39 | Enhancement of Cardiac Store Operated Calcium Entry (SOCE) within Novel Intercalated Disk Microdomains in Arrhythmic Disease. Scientific Reports, 2019, 9, 10179. | 1.6 | 33 |
| 40 | Targeting OCT3 attenuates doxorubicin-induced cardiac injury. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 33 |
| 41 | Canine Nonischemic Left Ventricular Dysfunction: A Model of Chronic Human Cardiomyopathy. Journal of Cardiac Failure, 2005, 11, 638-644. | 0.7 | 30 |
| 42 | Cardioprotection by HO-4038, a novel verapamil derivative, targeted against ischemia and reperfusion-mediated acute myocardial infarction. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H140-H151. | 1.5 | 29 |
| 43 | Tachy-brady arrhythmias: The critical role of adenosine-induced sinoatrial conduction block in post-tachycardia pauses. Heart Rhythm, 2013, 10, 110-118. | 0.3 | 29 |
| 44 | Repolarization abnormalities and afterdepolarizations in a canine model of sudden cardiac death. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 295, R1463-R1472. | 0.9 | 28 |
| 45 | Dietary Omega-3 Fatty Acids and Susceptibility to Ventricular Fibrillation. Circulation: Arrhythmia and Electrophysiology, 2012, 5, 553-560. | 2.1 | 28 |
| 46 | Effects of dihydrotestosterone on cardiac inward rectifier K+ current. Journal of Developmental and Physical Disabilities, 2002, 25, 210-214. | 3.6 | 24 |
| 47 | Exercise training normalizes Î²-adrenoceptor expression in dogs susceptible to ventricular fibrillation. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H2702-H2709. | 1.5 | 24 |
| 48 | Heart failure duration progressively modulates the arrhythmia substrate through structural and electrical remodeling. Life Sciences, 2015, 123, 61-71. | 2.0 | 24 |
| 49 | Atrial, SA Nodal, and AV Nodal Electrophysiology in Standing Horses: Normal Findings and Electrophysiologic Effects of Quinidine and Diltiazem. Journal of Veterinary Internal Medicine, 2007, 21, 166-175. | 0.6 | 23 |
| 50 | Endurance exercise training normalizes repolarization and calcium-handling abnormalities, preventing ventricular fibrillation in a model of sudden cardiac death. Journal of Applied Physiology, 2012, 113, 1772-1783. | 1.2 | 23 |
| 51 | Dysfunction of the Î²<sub>2</sub>-spectrin-based pathway in human heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 310, H1583-H1591. | 1.5 | 23 |
| 52 | Muscarinic Stimulation Facilitates Sarcoplasmic Reticulum Ca Release by Modulating Ryanodine Receptor 2 Phosphorylation Through Protein Kinase G and Ca/Calmodulin-Dependent Protein Kinase II. Hypertension, 2016, 68, 1171-1178. | 1.3 | 21 |
| 53 | Abnormal diastolic currents in ventricular myocytes from spontaneous hypertensive heart failure rats. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H2192-H2198. | 1.5 | 19 |
| 54 | Initial experience with antiarrhythmic medication monitoring by clinical pharmacists in an outpatient setting: A retrospective review. Clinical Therapeutics, 2009, 31, 1209-1218. | 1.1 | 19 |

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|---|---|---|---|
| 55 | Chronic heart failure selectively induces regional heterogeneity of insulin-responsive glucose transporters. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 301, R1300-R1306. | 0.9 | 17 |
| 56 | Store-dependent deactivation: Cooling the chain-reaction of myocardial calcium signaling. Journal of Molecular and Cellular Cardiology, 2013, 58, 77-83. | 0.9 | 17 |
| 57 | The role of spatial organization of Ca2+ release sites in the generation of arrhythmogenic diastolic Ca2+ release in myocytes from failing hearts. Basic Research in Cardiology, 2017, 112, 44. | 2.5 | 17 |
| 58 | Use of Whole Exome Sequencing for the Identification of I <sub>to</sub> â€Based Arrhythmia Mechanism and Therapy. Journal of the American Heart Association, 2015, 4, . | 1.6 | 16 |
| 59 | Ero1Î±-Dependent ERp44 Dissociation From RyR2 Contributes to Cardiac Arrhythmia. Circulation Research, 2022, 130, 711-724. | 2.0 | 16 |
| 60 | The role of luminal Ca regulation in Ca signaling refractoriness and cardiac arrhythmogenesis. Journal of General Physiology, 2017, 149, 877-888. | 0.9 | 15 |
| 61 | Effects of changing heart rate on electrophysiological and hemodynamic function in the dog. Life Sciences, 2003, 72, 1919-1930. | 2.0 | 14 |
| 62 | Chronic heart failure increases negative chronotropic effects of adenosine in canine sinoatrial cells via A1R stimulation and GIRK-mediated IKado. Life Sciences, 2020, 240, 117068. | 2.0 | 14 |
| 63 | Elevated Defibrillation Threshold with Venlafaxine Therapy. Pharmacotherapy, 2004, 24, 1095-1098. | 1.2 | 13 |
| 64 | Costâ€“benefit and costâ€“savings analyses of antiarrhythmic medication monitoring. American Journal of Health-System Pharmacy, 2012, 69, 1569-1573. | 0.5 | 13 |
| 65 | N-Hydroxy-pyrroline Modification of Verapamil Exhibits Antioxidant Protection of the Heart against Ischemia/Reperfusion-Induced Cardiac Dysfunction without Compromising Its Calcium Antagonistic Activity. Journal of Pharmacology and Experimental Therapeutics, 2007, 323, 119-127. | 1.3 | 12 |
| 66 | Electrophysiologic and Hemodynamic Effects of Apomorphine in Dogs. Toxicology and Applied Pharmacology, 2001, 177, 157-161. | 1.3 | 11 |
| 67 | Ibandronate and Ventricular Arrhythmia Risk. Journal of Cardiovascular Electrophysiology, 2014, 25, 299-306. | 0.8 | 11 |
| 68 | Differential Effects of the Peroxynitrite Donor, SIN-1, on Atrial and Ventricular Myocyte Electrophysiology. Journal of Cardiovascular Pharmacology, 2013, 61, 401-407. | 0.8 | 10 |
| 69 | The Influence of Specific and Nonspecific Potassium Current Blockade on the Defibrillation Energy Requirement of Biphasic Shock. PACE - Pacing and Clinical Electrophysiology, 1999, 22, 147-151. | 0.5 | 9 |
| 70 | Pharmacokinetics of oral ivabradine in healthy cats. Journal of Veterinary Pharmacology and Therapeutics, 2011, 34, 469-475. | 0.6 | 9 |
| 71 | Dietary Omega-3 Fatty Acids Promote Arrhythmogenic Remodeling of Cellular Ca2+ Handling in a Postinfarction Model of Sudden Cardiac Death. PLoS ONE, 2013, 8, e78414. | 1.1 | 9 |
| 72 | Uni- or bi-ventricular hypertrophy and susceptibility to drug-induced torsades de pointes. Journal of Pharmacological and Toxicological Methods, 2010, 62, 148-156. | 0.3 | 8 |

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|---|---|---|---|
| 73 | Amiodarone Use in Patients with Documented Hypersensitivity to Intravenous Contrast Dye. Annals of Pharmacotherapy, 2008, 42, 1349-1350. | 0.9 | 7 |
| 74 | Prolonged Action Potential and After depolarizations Are Not due to Changes in Potassium Currents in NOS3 Knockout Ventricular Myocytes. Journal of Signal Transduction, 2012, 2012, 1-8. | 2.0 | 6 |
| 75 | Muscarinic-dependent phosphorylation of the cardiac ryanodine receptor by protein kinase G is mediated by PI3Kâ€“AKTâ€“nNOS signaling. Journal of Biological Chemistry, 2020, 295, 11720-11728. | 1.6 | 6 |
| 76 | Moricizine: A Novel Antiarrhythmic Agent. DICP: the Annals of Pharmacotherapy, 1990, 24, 745-753. | 0.2 | 5 |
| 77 | Treating cocaine cardiotoxicity: Does receptor subtype matter?. Trends in Cardiovascular Medicine, 2015, 25, 527-528. | 2.3 | 5 |
| 78 | What is the role of pharmacogenetics in optimization of warfarin dosing?. Trends in Cardiovascular Medicine, 2015, 25, 42-43. | 2.3 | 5 |
| 79 | Tetrodotoxinâ€Sensitive Neuronalâ€Type Na <sup>+</sup> Channels: A Novel and Druggable Target for Prevention of Atrial Fibrillation. Journal of the American Heart Association, 2020, 9, e015119. | 1.6 | 5 |
| 80 | Atrial, SA nodal, and AV nodal electrophysiology in standing horses: normal findings and electrophysiologic effects of quinidine and diltiazem. Journal of Veterinary Internal Medicine, 2007, 21, 166-75. | 0.6 | 5 |
| 81 | Electrophysiologic Interactions of Procainamide and N-Acetylprocainamide in Isolated Canine Cardiac Purkinje Fibers. Journal of Cardiovascular Pharmacology, 1992, 20, 197-205. | 0.8 | 4 |
| 82 | Renewing Vision and Strategic Priorities for an Academic Unit. American Journal of Pharmaceutical Education, 2010, 74, 13. | 0.7 | 3 |
| 83 | Exercise does not ameliorate cardiac dysfunction in obese mice exposed to fine particulate matter. Life Sciences, 2019, 239, 116885. | 2.0 | 3 |
| 84 | Pyridostigmine improves cardiac function and rhythmicity through RyR2 stabilization and inhibition of STIM1â€mediated calcium entry in heart failure. Journal of Cellular and Molecular Medicine, 2021, 25, 4637-4648. | 1.6 | 3 |
| 85 | Effects of Azimilide, Acidemia, and the Combination on Defibrillation Energy Requirements. Journal of Cardiovascular Pharmacology, 2000, 36, 283-287. | 0.8 | 3 |
| 86 | Is NOS uncoupling the missing link between atrial fibrillation and chronic non-ischaemic cardiomyopathy? Reply. Cardiovascular Research, 2011, 91, 557-558. | 1.8 | 2 |
| 87 | Chronic Omega-3 Polyunsaturated Fatty Acid Treatment Variably Affects Cellular Repolarization in a Healed Post-MI Arrhythmia Model. Frontiers in Physiology, 2016, 7, 225. | 1.3 | 2 |
| 88 | Development and validation of a UPLC-MS/MS analytical method for dofetilide in mouse plasma and urine, and its application to pharmacokinetic study. Journal of Pharmaceutical and Biomedical Analysis, 2019, 172, 183-188. | 1.4 | 2 |
| 89 | Lack of efficacy of N-acetylcysteine in attenuating contrast induced nephropathy in patients with severe systolic heart failure. Journal of Cardiac Failure, 2004, 10, S131. | 0.7 | 1 |
| 90 | Abstract 14035: Renal Tubular Secretion and Cardiac Distribution of Dofetilide is Dependent on MATE1 Function. Circulation, 2020, 142, . | 1.6 | 1 |

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|---|---|---|---|
| 91 | Left ventricular dysfunction and impaired exercise tolerance in a chronic canine model. Journal of Cardiac Failure, 2004, 10, S37-S38. | 0.7 | 0 |
| 92 | Abstract 17344: Increasing Calcium-activated Potassium Current Shortens and Stabilizes Repolarization in Chronic Heart Failure. Circulation, 2015, 132, . | 1.6 | 0 |
| 93 | Abstract 17375: In Utero Particulate Matter Exposure Produces Heart Failure and Electrical Remodeling at Adulthood. Circulation, 2015, 132, . | 1.6 | 0 |