

# Cynthia A Carnes

## List of Publications by Year in descending order

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93  
papers

5,828  
citations

109321

35  
h-index

74163

75  
g-index

95  
all docs

95  
docs citations

95  
times ranked

6344  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ero1 $\pm$ -Dependent ERp44 Dissociation From RyR2 Contributes to Cardiac Arrhythmia. <i>Circulation Research</i> , 2022, 130, 711-724.	4.5	16
2	Targeting OCT3 attenuates doxorubicin-induced cardiac injury. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	33
3	Pyridostigmine improves cardiac function and rhythmicity through RyR2 stabilization and inhibition of STIM1 $\hat{a}$ -mediated calcium entry in heart failure. <i>Journal of Cellular and Molecular Medicine</i> , 2021, 25, 4637-4648.	3.6	3
4	Chronic heart failure increases negative chronotropic effects of adenosine in canine sinoatrial cells via A1R stimulation and GIRK-mediated IKado. <i>Life Sciences</i> , 2020, 240, 117068.	4.3	14
5	Tetrodotoxin $\hat{a}$ -sensitive Neuronal $\hat{a}$ -type Na <sup>+</sup> Channels: A Novel and Druggable Target for Prevention of Atrial Fibrillation. <i>Journal of the American Heart Association</i> , 2020, 9, e015119.	3.7	5
6	Muscarinic-dependent phosphorylation of the cardiac ryanodine receptor by protein kinase G is mediated by PI3K $\hat{a}$ -AKT $\hat{a}$ -nNOS signaling. <i>Journal of Biological Chemistry</i> , 2020, 295, 11720-11728.	3.4	6
7	Abstract 14035: Renal Tubular Secretion and Cardiac Distribution of Dofetilide is Dependent on MATE1 Function. <i>Circulation</i> , 2020, 142, .	1.6	1
8	Enhancement of Cardiac Store Operated Calcium Entry (SOCE) within Novel Intercalated Disk Microdomains in Arrhythmic Disease. <i>Scientific Reports</i> , 2019, 9, 10179.	3.3	33
9	Exercise does not ameliorate cardiac dysfunction in obese mice exposed to fine particulate matter. <i>Life Sciences</i> , 2019, 239, 116885.	4.3	3
10	Development and validation of a UPLC-MS/MS analytical method for dofetilide in mouse plasma and urine, and its application to pharmacokinetic study. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 172, 183-188.	2.8	2
11	In Utero Particulate Matter Exposure Produces Heart Failure, Electrical Remodeling, and Epigenetic Changes at Adulthood. <i>Journal of the American Heart Association</i> , 2017, 6, .	3.7	46
12	The role of spatial organization of Ca <sup>2+</sup> release sites in the generation of arrhythmogenic diastolic Ca <sup>2+</sup> release in myocytes from failing hearts. <i>Basic Research in Cardiology</i> , 2017, 112, 44.	5.9	17
13	The role of luminal Ca regulation in Ca signaling refractoriness and cardiac arrhythmogenesis. <i>Journal of General Physiology</i> , 2017, 149, 877-888.	1.9	15
14	Chronic Omega-3 Polyunsaturated Fatty Acid Treatment Variably Affects Cellular Repolarization in a Healed Post-MI Arrhythmia Model. <i>Frontiers in Physiology</i> , 2016, 7, 225.	2.8	2
15	Muscarinic Stimulation Facilitates Sarcoplasmic Reticulum Ca Release by Modulating Ryanodine Receptor 2 Phosphorylation Through Protein Kinase G and Ca/Calmodulin-Dependent Protein Kinase II. <i>Hypertension</i> , 2016, 68, 1171-1178.	2.7	21
16	Dysfunction of the $\hat{I}^2$ -spectrin-based pathway in human heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H1583-H1591.	3.2	23
17	Use of Whole Exome Sequencing for the Identification of <i>to</i> -Based Arrhythmia Mechanism and Therapy. <i>Journal of the American Heart Association</i> , 2015, 4, .	3.7	16
18	Heart failure duration progressively modulates the arrhythmia substrate through structural and electrical remodeling. <i>Life Sciences</i> , 2015, 123, 61-71.	4.3	24

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19	Dysfunction in the $\beta$ II Spectrin-Dependent Cytoskeleton Underlies Human Arrhythmia. <i>Circulation</i> , 2015, 131, 695-708.	1.6	56
20	Protein phosphatase 2A regulatory subunit B56 $\beta$ limits phosphatase activity in the heart. <i>Science Signaling</i> , 2015, 8, ra72.	3.6	45
21	Treating cocaine cardiotoxicity: Does receptor subtype matter?. <i>Trends in Cardiovascular Medicine</i> , 2015, 25, 527-528.	4.9	5
22	What is the role of pharmacogenetics in optimization of warfarin dosing?. <i>Trends in Cardiovascular Medicine</i> , 2015, 25, 42-43.	4.9	5
23	Abstract 17344: Increasing Calcium-activated Potassium Current Shortens and Stabilizes Repolarization in Chronic Heart Failure. <i>Circulation</i> , 2015, 132, .	1.6	0
24	Abstract 17375: In Utero Particulate Matter Exposure Produces Heart Failure and Electrical Remodeling at Adulthood. <i>Circulation</i> , 2015, 132, .	1.6	0
25	Ibandronate and Ventricular Arrhythmia Risk. <i>Journal of Cardiovascular Electrophysiology</i> , 2014, 25, 299-306.	1.7	11
26	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. <i>Circulation</i> , 2014, 130, 315-324.	1.6	70
27	Calcium-Activated Potassium Current Modulates Ventricular Repolarization in Chronic Heart Failure. <i>PLoS ONE</i> , 2014, 9, e108824.	2.5	62
28	Store-dependent deactivation: Cooling the chain-reaction of myocardial calcium signaling. <i>Journal of Molecular and Cellular Cardiology</i> , 2013, 58, 77-83.	1.9	17
29	Effect of Barcode-assisted Medication Administration on Emergency Department Medication Errors. <i>Academic Emergency Medicine</i> , 2013, 20, 801-806.	1.8	43
30	“Ryanopathy”: causes and manifestations of RyR2 dysfunction in heart failure. <i>Cardiovascular Research</i> , 2013, 98, 240-247.	3.8	57
31	Tachy-brady arrhythmias: The critical role of adenosine-induced sinoatrial conduction block in post-tachycardia pauses. <i>Heart Rhythm</i> , 2013, 10, 110-118.	0.7	29
32	Up-regulation of sarcoplasmic reticulum Ca <sup>2+</sup> uptake leads to cardiac hypertrophy, contractile dysfunction and early mortality in mice deficient in CASQ2. <i>Cardiovascular Research</i> , 2013, 98, 297-306.	3.8	37
33	Sinoatrial Node Reentry in a Canine Chronic Left Ventricular Infarct Model. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2013, 6, 984-994.	4.8	41
34	Molecular Mechanisms Underlying Cardiac Protein Phosphatase 2A Regulation in Heart. <i>Journal of Biological Chemistry</i> , 2013, 288, 1032-1046.	3.4	77
35	Differential Effects of the Peroxynitrite Donor, SIN-1, on Atrial and Ventricular Myocyte Electrophysiology. <i>Journal of Cardiovascular Pharmacology</i> , 2013, 61, 401-407.	1.9	10
36	Dietary Omega-3 Fatty Acids Promote Arrhythmogenic Remodeling of Cellular Ca <sup>2+</sup> Handling in a Postinfarction Model of Sudden Cardiac Death. <i>PLoS ONE</i> , 2013, 8, e78414.	2.5	9

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37	Costâ€“benefit and costâ€“savings analyses of antiarrhythmic medication monitoring. American Journal of Health-System Pharmacy, 2012, 69, 1569-1573.	1.0	13
38	Dietary Omega-3 Fatty Acids and Susceptibility to Ventricular Fibrillation. Circulation: Arrhythmia and Electrophysiology, 2012, 5, 553-560.	4.8	28
39	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
40	Differential regulation of EHD3 in human and mammalian heart failure. Journal of Molecular and Cellular Cardiology, 2012, 52, 1183-1190.	1.9	34
41	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.	2.5	23
42	Nitric Oxide Synthases and Atrial Fibrillation. Frontiers in Physiology, 2012, 3, 105.	2.8	37
43	Shortened Ca <sup>2+</sup> Signaling Refractoriness Underlies Cellular Arrhythmogenesis in a Postinfarction Model of Sudden Cardiac Death. Circulation Research, 2012, 110, 569-577.	4.5	99
44	MicroRNA-1 and -133 Increase Arrhythmogenesis in Heart Failure by Dissociating Phosphatase Activity from RyR2 Complex. PLoS ONE, 2011, 6, e28324.	2.5	134
45	Tetrahydrobiopterin depletion and NOS2 uncoupling contribute to heart failure-induced alterations in atrial electrophysiology. Cardiovascular Research, 2011, 91, 71-79.	3.8	70
46	Pharmacokinetics of oral ivabradine in healthy cats. Journal of Veterinary Pharmacology and Therapeutics, 2011, 34, 469-475.	1.3	9
47	Arrhythmogenic adverse effects of cardiac glycosides are mediated by redox modification of ryanodine receptors. Journal of Physiology, 2011, 589, 4697-4708.	2.9	36
48	Is NOS uncoupling the missing link between atrial fibrillation and chronic non-ischaemic cardiomyopathy? Reply. Cardiovascular Research, 2011, 91, 557-558.	3.8	2
49	The relationship between arrhythmogenesis and impaired contractility in heart failure: role of altered ryanodine receptor function. Cardiovascular Research, 2011, 90, 493-502.	3.8	109
50	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.	1.8	17
51	Renewing Vision and Strategic Priorities for an Academic Unit. American Journal of Pharmaceutical Education, 2010, 74, 13.	2.1	3
52	Uni- or bi-ventricular hypertrophy and susceptibility to drug-induced torsades de pointes. Journal of Pharmacological and Toxicological Methods, 2010, 62, 148-156.	0.7	8
53	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.	3.2	38
54	Chronic heart failure and the substrate for atrial fibrillation. Cardiovascular Research, 2009, 84, 227-236.	3.8	67

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55	Redox modification of ryanodine receptors underlies calcium alternans in a canine model of sudden cardiac death. <i>Cardiovascular Research</i> , 2009, 84, 387-395.	3.8	133
56	Initial experience with antiarrhythmic medication monitoring by clinical pharmacists in an outpatient setting: A retrospective review. <i>Clinical Therapeutics</i> , 2009, 31, 1209-1218.	2.5	19
57	Cardioprotection by HO-4038, a novel verapamil derivative, targeted against ischemia and reperfusion-mediated acute myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 296, H140-H151.	3.2	29
58	Dysregulated sarcoplasmic reticulum calcium release: Potential pharmacological target in cardiac disease. , 2008, 119, 340-354.		57
59	Repolarization abnormalities and afterdepolarizations in a canine model of sudden cardiac death. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 295, R1463-R1472.	1.8	28
60	Amiodarone Use in Patients with Documented Hypersensitivity to Intravenous Contrast Dye. <i>Annals of Pharmacotherapy</i> , 2008, 42, 1349-1350.	1.9	7
61	Redox Modification of Ryanodine Receptors Contributes to Sarcoplasmic Reticulum Ca <sup>2+</sup> Leak in Chronic Heart Failure. <i>Circulation Research</i> , 2008, 103, 1466-1472.	4.5	315
62	Mechanisms of impaired calcium handling underlying subclinical diastolic dysfunction in diabetes. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007, 293, R1787-R1797.	1.8	112
63	Exercise training normalizes $\beta_2$ -adrenoceptor expression in dogs susceptible to ventricular fibrillation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H2702-H2709.	3.2	24
64	A mutation in calsequestrin, CASQ2D307H, impairs Sarcoplasmic Reticulum Ca <sup>2+</sup> handling and causes complex ventricular arrhythmias in mice. <i>Cardiovascular Research</i> , 2007, 75, 69-78.	3.8	52
65	<i>N</i> -Hydroxy-pyrroline Modification of Verapamil Exhibits Antioxidant Protection of the Heart against Ischemia/Reperfusion-Induced Cardiac Dysfunction without Compromising Its Calcium Antagonistic Activity. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007, 323, 119-127.	2.5	12
66	Atrial Glutathione Content, Calcium Current, and Contractility. <i>Journal of Biological Chemistry</i> , 2007, 282, 28063-28073.	3.4	103
67	Differential expression of sarcolipin protein during muscle development and cardiac pathophysiology. <i>Journal of Molecular and Cellular Cardiology</i> , 2007, 43, 215-222.	1.9	127
68	Chronic cardiac resynchronization therapy and reverse ventricular remodeling in a model of nonischemic cardiomyopathy. <i>Life Sciences</i> , 2007, 81, 1152-1159.	4.3	36
69	Atrial, SA Nodal, and AV Nodal Electrophysiology in Standing Horses: Normal Findings and Electrophysiologic Effects of Quinidine and Diltiazem. <i>Journal of Veterinary Internal Medicine</i> , 2007, 21, 166-175.	1.6	23
70	Enhanced Ryanodine Receptor-Mediated Calcium Leak Determines Reduced Sarcoplasmic Reticulum Calcium Content in Chronic Canine Heart Failure. <i>Biophysical Journal</i> , 2007, 93, 4083-4092.	0.5	94
71	n-3 (omega-3) polyunsaturated fatty acids prevent acute atrial electrophysiological remodeling. <i>British Journal of Pharmacology</i> , 2007, 150, 281-285.	5.4	53
72	The plateau outward current in canine ventricle, sensitive to 4-aminopyridine, is a constitutive contributor to ventricular repolarization. <i>British Journal of Pharmacology</i> , 2007, 152, 870-879.	5.4	38

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73	Atrial, SA Nodal, and AV Nodal Electrophysiology in Standing Horses: Normal Findings and Electrophysiologic Effects of Quinidine and Diltiazem. <i>Journal of Veterinary Internal Medicine</i> , 2007, 21, 166.	1.6	5
74	Abnormal diastolic currents in ventricular myocytes from spontaneous hypertensive heart failure rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H2192-H2198.	3.2	19
75	Abnormal intrastore calcium signaling in chronic heart failure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 14104-14109.	7.1	182
76	Canine Nonischemic Left Ventricular Dysfunction: A Model of Chronic Human Cardiomyopathy. <i>Journal of Cardiac Failure</i> , 2005, 11, 638-644.	1.7	30
77	Mechanisms of Disease: $\beta_2$ -adrenergic receptors alterations in signal transduction and pharmacogenomics in heart failure. <i>Nature Clinical Practice Cardiovascular Medicine</i> , 2005, 2, 475-483.	3.3	111
78	Age-dependent changes in contraction and regional myocardial myosin heavy chain isoform expression in rats. <i>Journal of Applied Physiology</i> , 2004, 97, 446-453.	2.5	49
79	Elevated Defibrillation Threshold with Venlafaxine Therapy. <i>Pharmacotherapy</i> , 2004, 24, 1095-1098.	2.6	13
80	Left ventricular dysfunction and impaired exercise tolerance in a chronic canine model. <i>Journal of Cardiac Failure</i> , 2004, 10, S37-S38.	1.7	0
81	Lack of efficacy of N-acetylcysteine in attenuating contrast induced nephropathy in patients with severe systolic heart failure. <i>Journal of Cardiac Failure</i> , 2004, 10, S131.	1.7	1
82	Effects of changing heart rate on electrophysiological and hemodynamic function in the dog. <i>Life Sciences</i> , 2003, 72, 1919-1930.	4.3	14
83	Age and anesthetic effects on murine electrocardiography. <i>Life Sciences</i> , 2003, 72, 2401-2412.	4.3	39
84	Effects of dihydrotestosterone on cardiac inward rectifier K <sup>+</sup> current. <i>Journal of Developmental and Physical Disabilities</i> , 2002, 25, 210-214.	3.6	24
85	Transgenic Mice with Cardiac-Specific Expression of Activating Transcription Factor 3, a Stress-Inducible Gene, Have Conduction Abnormalities and Contractile Dysfunction. <i>American Journal of Pathology</i> , 2001, 159, 639-650.	3.8	92
86	Electrophysiologic and Hemodynamic Effects of Apomorphine in Dogs. <i>Toxicology and Applied Pharmacology</i> , 2001, 177, 157-161.	2.8	11
87	Impaired Myofibrillar Energetics and Oxidative Injury During Human Atrial Fibrillation. <i>Circulation</i> , 2001, 104, 174-180.	1.6	620
88	Ascorbate Attenuates Atrial Pacing-Induced Peroxynitrite Formation and Electrical Remodeling and Decreases the Incidence of Postoperative Atrial Fibrillation. <i>Circulation Research</i> , 2001, 89, E32-8.	4.5	448
89	C-Reactive Protein Elevation in Patients With Atrial Arrhythmias. <i>Circulation</i> , 2001, 104, 2886-2891.	1.6	1,299
90	Effects of Azimilide, Acidemia, and the Combination on Defibrillation Energy Requirements. <i>Journal of Cardiovascular Pharmacology</i> , 2000, 36, 283-287.	1.9	3

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91	The Influence of Specific and Nonspecific Potassium Current Blockade on the Defibrillation Energy Requirement of Biphasic Shock. <i>PACE - Pacing and Clinical Electrophysiology</i> , 1999, 22, 147-151.	1.2	9
92	Electrophysiologic Interactions of Procainamide and N-Acetylprocainamide in Isolated Canine Cardiac Purkinje Fibers. <i>Journal of Cardiovascular Pharmacology</i> , 1992, 20, 197-205.	1.9	4
93	Moricizine: A Novel Antiarrhythmic Agent. <i>DICP: the Annals of Pharmacotherapy</i> , 1990, 24, 745-753.	0.2	5