

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	C-Reactive Protein Elevation in Patients With Atrial Arrhythmias. <i>Circulation</i> , 2001, 104, 2886-2891.	1.6	1,299
2	Impaired Myofibrillar Energetics and Oxidative Injury During Human Atrial Fibrillation. <i>Circulation</i> , 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. <i>Circulation Research</i> , 2001, 89, E32-8.	4.5	448
4	Redox Modification of Ryanodine Receptors Contributes to Sarcoplasmic Reticulum Ca ²⁺ Leak in Chronic Heart Failure. <i>Circulation Research</i> , 2008, 103, 1466-1472.	4.5	315
5	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
6	MicroRNA-1 and -133 Increase Arrhythmogenesis in Heart Failure by Dissociating Phosphatase Activity from RyR2 Complex. <i>PLoS ONE</i> , 2011, 6, e28324.	2.5	134
7	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
8	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
9	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
10	Mechanisms of Disease: β -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
11	The relationship between arrhythmogenesis and impaired contractility in heart failure: role of altered ryanodine receptor function. <i>Cardiovascular Research</i> , 2011, 90, 493-502.	3.8	109
12	Atrial Glutathione Content, Calcium Current, and Contractility. <i>Journal of Biological Chemistry</i> , 2007, 282, 28063-28073.	3.4	103
13	Shortened Ca ²⁺ Signaling Refractoriness Underlies Cellular Arrhythmogenesis in a Postinfarction Model of Sudden Cardiac Death. <i>Circulation Research</i> , 2012, 110, 569-577.	4.5	99
14	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
15	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
16	Molecular Mechanisms Underlying Cardiac Protein Phosphatase 2A Regulation in Heart. <i>Journal of Biological Chemistry</i> , 2013, 288, 1032-1046.	3.4	77
17	Tetrahydrobiopterin depletion and NOS2 uncoupling contribute to heart failure-induced alterations in atrial electrophysiology. <i>Cardiovascular Research</i> , 2011, 91, 71-79.	3.8	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. <i>Circulation</i> , 2014, 130, 315-324.	1.6	70

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19	Chronic heart failure and the substrate for atrial fibrillation. <i>Cardiovascular Research</i> , 2009, 84, 227-236.	3.8	67
20	Calcium-Activated Potassium Current Modulates Ventricular Repolarization in Chronic Heart Failure. <i>PLoS ONE</i> , 2014, 9, e108824.	2.5	62
21	Dysregulated sarcoplasmic reticulum calcium release: Potential pharmacological target in cardiac disease. , 2008, 119, 340-354.		57
22	â€ˆRyanopathyâ€™™: causes and manifestations of RyR2 dysfunction in heart failure. <i>Cardiovascular Research</i> , 2013, 98, 240-247.	3.8	57
23	Dysfunction in the Î²II Spectrinâ€™“Dependent Cytoskeleton Underlies Human Arrhythmia. <i>Circulation</i> , 2015, 131, 695-708.	1.6	56
24	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
25	A mutation in calsequestrin, CASQ2D307H, impairs Sarcoplasmic Reticulum Ca ²⁺ handling and causes complex ventricular arrhythmias in mice. <i>Cardiovascular Research</i> , 2007, 75, 69-78.	3.8	52
26	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
27	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
28	Protein phosphatase 2A regulatory subunit B56Î± limits phosphatase activity in the heart. <i>Science Signaling</i> , 2015, 8, ra72.	3.6	45
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	Sinoatrial Node Reentry in a Canine Chronic Left Ventricular Infarct Model. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2013, 6, 984-994.	4.8	41
31	Age and anesthetic effects on murine electrocardiography. <i>Life Sciences</i> , 2003, 72, 2401-2412.	4.3	39
32	The plateau outward current in canine ventricle, sensitive to 4â€™aminopyridine, is a constitutive contributor to ventricular repolarization. <i>British Journal of Pharmacology</i> , 2007, 152, 870-879.	5.4	38
33	Effects of dietary omegaâ€™“3 fatty acids on ventricular function in dogs with healed myocardial infarctions: in vivo and in vitro studies. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 298, H1219-H1228.	3.2	38
34	Nitric Oxide Synthases and Atrial Fibrillation. <i>Frontiers in Physiology</i> , 2012, 3, 105.	2.8	37
35	Up-regulation of sarcoplasmic reticulum Ca ²⁺ 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
36	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

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37	Arrhythmogenic adverse effects of cardiac glycosides are mediated by redox modification of ryanodine receptors. <i>Journal of Physiology</i> , 2011, 589, 4697-4708.	2.9	36
38	Differential regulation of EHD3 in human and mammalian heart failure. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 52, 1183-1190.	1.9	34
39	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
40	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
41	Canine Nonischemic Left Ventricular Dysfunction: A Model of Chronic Human Cardiomyopathy. <i>Journal of Cardiac Failure</i> , 2005, 11, 638-644.	1.7	30
42	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
43	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
44	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
45	Dietary Omega-3 Fatty Acids and Susceptibility to Ventricular Fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2012, 5, 553-560.	4.8	28
46	Effects of dihydrotestosterone on cardiac inward rectifier K ⁺ current. <i>Journal of Developmental and Physical Disabilities</i> , 2002, 25, 210-214.	3.6	24
47	Exercise training normalizes β^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
48	Heart failure duration progressively modulates the arrhythmia substrate through structural and electrical remodeling. <i>Life Sciences</i> , 2015, 123, 61-71.	4.3	24
49	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
50	Endurance exercise training normalizes repolarization and calcium-handling abnormalities, preventing ventricular fibrillation in a model of sudden cardiac death. <i>Journal of Applied Physiology</i> , 2012, 113, 1772-1783.	2.5	23
51	Dysfunction of the β^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
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. <i>Hypertension</i> , 2016, 68, 1171-1178.	2.7	21
53	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
54	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

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55	Chronic heart failure selectively induces regional heterogeneity of insulin-responsive glucose transporters. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R1300-R1306.	1.8	17
56	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
57	The role of spatial organization of Ca ²⁺ release sites in the generation of arrhythmogenic diastolic Ca ²⁺ release in myocytes from failing hearts. <i>Basic Research in Cardiology</i> , 2017, 112, 44.	5.9	17
58	Use of Whole Exome Sequencing for the Identification of <i>Ca</i> -Based Arrhythmia Mechanism and Therapy. <i>Journal of the American Heart Association</i> , 2015, 4, .	3.7	16
59	Ero1±-Dependent ERp44 Dissociation From RyR2 Contributes to Cardiac Arrhythmia. <i>Circulation Research</i> , 2022, 130, 711-724.	4.5	16
60	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
61	Effects of changing heart rate on electrophysiological and hemodynamic function in the dog. <i>Life Sciences</i> , 2003, 72, 1919-1930.	4.3	14
62	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
63	Elevated Defibrillation Threshold with Venlafaxine Therapy. <i>Pharmacotherapy</i> , 2004, 24, 1095-1098.	2.6	13
64	Cost-benefit and cost-savings analyses of antiarrhythmic medication monitoring. <i>American Journal of Health-System Pharmacy</i> , 2012, 69, 1569-1573.	1.0	13
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	Electrophysiologic and Hemodynamic Effects of Apomorphine in Dogs. <i>Toxicology and Applied Pharmacology</i> , 2001, 177, 157-161.	2.8	11
67	Ibandronate and Ventricular Arrhythmia Risk. <i>Journal of Cardiovascular Electrophysiology</i> , 2014, 25, 299-306.	1.7	11
68	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
69	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
70	Pharmacokinetics of oral ivabradine in healthy cats. <i>Journal of Veterinary Pharmacology and Therapeutics</i> , 2011, 34, 469-475.	1.3	9
71	Dietary Omega-3 Fatty Acids Promote Arrhythmogenic Remodeling of Cellular Ca ²⁺ Handling in a Postinfarction Model of Sudden Cardiac Death. <i>PLoS ONE</i> , 2013, 8, e78414.	2.5	9
72	Uni- or bi-ventricular hypertrophy and susceptibility to drug-induced torsades de pointes. <i>Journal of Pharmacological and Toxicological Methods</i> , 2010, 62, 148-156.	0.7	8

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73	Amiodarone Use in Patients with Documented Hypersensitivity to Intravenous Contrast Dye. <i>Annals of Pharmacotherapy</i> , 2008, 42, 1349-1350.	1.9	7
74	Prolonged Action Potential and After depolarizations Are Not due to Changes in Potassium Currents in NOS3 Knockout Ventricular Myocytes. <i>Journal of Signal Transduction</i> , 2012, 2012, 1-8.	2.0	6
75	Muscarinic-dependent phosphorylation of the cardiac ryanodine receptor by protein kinase G is mediated by PI3K-“AKT”-nNOS signaling. <i>Journal of Biological Chemistry</i> , 2020, 295, 11720-11728.	3.4	6
76	Moricizine: A Novel Antiarrhythmic Agent. <i>DICP: the Annals of Pharmacotherapy</i> , 1990, 24, 745-753.	0.2	5
77	Treating cocaine cardiotoxicity: Does receptor subtype matter?. <i>Trends in Cardiovascular Medicine</i> , 2015, 25, 527-528.	4.9	5
78	What is the role of pharmacogenetics in optimization of warfarin dosing?. <i>Trends in Cardiovascular Medicine</i> , 2015, 25, 42-43.	4.9	5
79	Tetrodotoxin-sensitive Neuronal Na^{+} 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
80	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
81	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
82	Renewing Vision and Strategic Priorities for an Academic Unit. <i>American Journal of Pharmaceutical Education</i> , 2010, 74, 13.	2.1	3
83	Exercise does not ameliorate cardiac dysfunction in obese mice exposed to fine particulate matter. <i>Life Sciences</i> , 2019, 239, 116885.	4.3	3
84	Pyridostigmine improves cardiac function and rhythmicity through RyR2 stabilization and inhibition of STIM1-mediated calcium entry in heart failure. <i>Journal of Cellular and Molecular Medicine</i> , 2021, 25, 4637-4648.	3.6	3
85	Effects of Azimilide, Acidemia, and the Combination on Defibrillation Energy Requirements. <i>Journal of Cardiovascular Pharmacology</i> , 2000, 36, 283-287.	1.9	3
86	Is NOS uncoupling the missing link between atrial fibrillation and chronic non-ischaemic cardiomyopathy? Reply. <i>Cardiovascular Research</i> , 2011, 91, 557-558.	3.8	2
87	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
88	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
89	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
90	Abstract 14035: Renal Tubular Secretion and Cardiac Distribution of Dofetilide is Dependent on MATE1 Function. <i>Circulation</i> , 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.	1.7	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