Mark E Anderson

List of Publications by Year
in descending order

107 papers	9,493 citations	38742 50 h-index	38395 95 g-index
111 all docs	111 docs citations	111 times ranked	9173 citing authors

#	Article	IF	Citations
1	Heart Failure and Atrial Fibrillationâ€"Chicken or Egg?. Circulation Research, 2022, 130, 1011-1013.	4.5	3
2	Oxidized CaMKII and O-GlcNAcylation cause increased atrial fibrillation in diabetic mice by distinct mechanisms. Journal of Clinical Investigation, 2021, 131, .	8.2	40
3	Totally Rad? The Long and Winding Road to Understanding Ca V 1.2 Regulation. Circulation Research, 2021, 128, 89-91.	4.5	1
4	Loss of CASK Accelerates Heart Failure Development. Circulation Research, 2021, 128, 1139-1155.	4.5	11
5	Excessive O -GlcNAcylation Causes Heart Failure and Sudden Death. Circulation, 2021, 143, 1687-1703.	1.6	65
6	CaMKII oxidation is a critical performance/disease trade-off acquired at the dawn of vertebrate evolution. Nature Communications, 2021, 12, 3175.	12.8	19
7	Boost US federal funding for international trainees. Nature, 2021, 594, 26-26.	27.8	0
8	Voices for Social Justice and Against Racism: An AAIM Perspective. American Journal of Medicine, 2021, 134, 930-934.	1.5	1
9	To Be or Not to Be a CaMKII Inhibitor?. JAMA Cardiology, 2021, 6, 769.	6.1	6
10	PDE1 Inhibition Modulates Ca _v 1.2 Channel to Stimulate Cardiomyocyte Contraction. Circulation Research, 2021, 129, 872-886.	4.5	8
11	The oxidationâ€resistant CaMKIIâ€MM281/282VV mutation does not prevent arrhythmias in CPVT1. Physiological Reports, 2021, 9, e15030.	1.7	1
12	Mitochondrial CaMKII causes adverse metabolic reprogramming and dilated cardiomyopathy. Nature Communications, 2020, 11, 4416.	12.8	54
13	MICAL1 constrains cardiac stress responses and protects against disease by oxidizing CaMKII. Journal of Clinical Investigation, 2020, 130, 4663-4678.	8.2	23
14	Myocardial death and dysfunction after ischemia-reperfusion injury require CaMKIIÎ´ oxidation. Scientific Reports, 2019, 9, 9291.	3.3	23
15	Building Leadership Capacity for Mission Execution in a Large Academic Department of Medicine. American Journal of Medicine, 2019, 132, 535-543.	1.5	2
16	Calcium/calmodulin-dependent protein kinase II causes atrial structural remodeling associated with atrial fibrillation and heart failure. Heart Rhythm, 2019, 16, 1080-1088.	0.7	31
17	Chronic Calmodulin-Kinase II Activation Drives Disease Progression in Mutation-Specific Hypertrophic Cardiomyopathy. Circulation, 2019, 139, 1517-1529.	1.6	39
18	Oxidized CaMKII (Ca ²⁺ /Calmodulin-Dependent Protein Kinase II) Is Essential for Ventricular Arrhythmia in a Mouse Model of Duchenne Muscular Dystrophy. Circulation: Arrhythmia and Electrophysiology, 2018, 11, e005682.	4.8	39

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19	Functional role of kynurenine and aryl hydrocarbon receptor axis in chronic rhinosinusitis with nasal polyps. Journal of Allergy and Clinical Immunology, 2018, 141, 586-600.e6.	2.9	24
20	A Department of Medicine Infrastructure for Patient Safety and Clinical Quality Improvement. American Journal of Medical Quality, 2018, 33, 413-419.	0.5	2
21	E-C coupling structural protein junctophilin-2 encodes a stress-adaptive transcription regulator. Science, 2018, 362, .	12.6	78
22	International Exchange and American Medicine. New England Journal of Medicine, 2017, 376, e40.	27.0	13
23	Cationic CaMKII Inhibiting Nanoparticles Prevent Allergic Asthma. Molecular Pharmaceutics, 2017, 14, 2166-2175.	4.6	22
24	Itâ€™s 10 pm ; Do You Know Where Your Data Are?. Circulation Research, 2017, 120, 1551-1554.	4.5	0
25	CaMKII is a nodal signal for multiple programmed cell death pathways in heart. Journal of Molecular and Cellular Cardiology, 2017, 103, 102-109.	1.9	86
26	Essentiality of Regulator of G Protein Signaling 6 and Oxidized Ca ²⁺ /Calmodulinâ€Dependent Protein Kinase II in Notch Signaling andÂCardiovascular Development. Journal of the American Heart Association, 2017, 6, .	3.7	14
27	Oxidized CaMKII promotes asthma through the activation of mast cells. JCI Insight, 2017, 2, e90139.	5.0	33
28	Twoâ€Pore K + Channel TREKâ€1 Regulates Sinoatrial Node Membrane Excitability. Journal of the American Heart Association, 2016, 5, e002865.	3.7	52
29	Exercise training prevents ventricular tachycardia in CPVT1 due to reduced CaMKII-dependent arrhythmogenic Ca2+release. Cardiovascular Research, 2016, 111, 295-306.	3.8	14
30	Molecular and cellular neurocardiology: development, and cellular and molecular adaptations to heart disease. Journal of Physiology, 2016, 594, 3853-3875.	2.9	85
31	Atrial remodelling in atrial fibrillation: CaMKII as a nodal proarrhythmic signal. Cardiovascular Research, 2016, 109, 542-557.	3.8	61
32	A Single Protein Kinase A or Calmodulin Kinase II Site Does Not Control the Cardiac Pacemaker Ca 2+ Clock. Circulation: Arrhythmia and Electrophysiology, 2016, 9, e003180.	4.8	8
33	Calmodulin/CaMKII inhibition improves intercellular communication and impulse propagation in the heart and is antiarrhythmic under conditions when fibrosis is absent. Cardiovascular Research, 2016, 111, 410-421.	3.8	23
34	Loss of ATP-Sensitive Potassium Channel Surface Expression in Heart Failure Underlies Dysregulation of Action Potential Duration and Myocardial Vulnerability to Injury. PLoS ONE, 2016, 11, e0151337.	2.5	7
35	Oxidant stress promotes disease by activating CaMKII. Journal of Molecular and Cellular Cardiology, 2015, 89, 160-167.	1.9	86
36	Will Secretoneurin Be the Next Big Thing?. Journal of the American College of Cardiology, 2015, 65, 352-354.	2.8	8

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37	The mitochondrial uniporter controls fight or flight heart rate increases. Nature Communications, 2015, 6, 6081.	12.8	126
38	Inhibition of MCU forces extramitochondrial adaptations governing physiological and pathological stress responses in heart. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9129-9134.	7.1	140
39	Mitochondrial-Targeted Antioxidant Therapy Decreases Transforming Growth Factor-Î²â€“Mediated Collagen Production in a Murine Asthma Model. American Journal of Respiratory Cell and Molecular Biology, 2015, 52, 106-115.	2.9	76
40	CaMKII in sinoatrial node physiology and dysfunction. Frontiers in Pharmacology, 2014, 5, 48.	3.5	43
41	BK channels regulate sinoatrial node firing rate and cardiac pacing in vivo. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H1327-H1338.	3.2	56
42	Intracellular Na+ overload causes oxidation of CaMKII and leads to Ca2+ mishandling in isolated ventricular myocytes. Journal of Molecular and Cellular Cardiology, 2014, 76, 247-256.	1.9	49
43	Joiner et al. reply. Nature, 2014, 513, E3-E3.	27.8	9
44	CaMKII oxidative activation and the pathogenesis of cardiac disease. Journal of Molecular and Cellular Cardiology, 2014, 73, 112-116.	1.9	122
45	Ryanodine receptor phosphorylation by oxidized CaMKII contributes to the cardiotoxic effects of cardiac glycosides. Cardiovascular Research, 2014, 101, 165-174.	3.8	41
46	Embryonic Stem Cellâ€“Derived Cardiac Myocytes Are Not Ready for Human Trials. Circulation Research, 2014, 115, 335-338.	4.5	47
47	Oxidative activation of the Ca2+/calmodulin-dependent protein kinase II (CaMKII) regulates vascular smooth muscle migration and apoptosis. Vascular Pharmacology, 2014, 60, 75-83.	2.1	32
48	Mitochondrial Calcium Uniporter Activity Is Dispensable for MDA-MB-231 Breast Carcinoma Cell Survival. PLoS ONE, 2014, 9, e96866.	2.5	70
49	Inhibition of CaMKII Does Not Attenuate Cardiac Hypertrophy in Mice with Dysfunctional Ryanodine Receptor. PLoS ONE, 2014, 9, e104338.	2.5	6
50	Why Has It Taken So Long to Learn What We Still Donâ€™t Know?. Circulation Research, 2013, 113, 840-842.	4.5	3
51	Ionizing radiation regulates cardiac Ca handling via increased ROS and activated CaMKII. Basic Research in Cardiology, 2013, 108, 385.	5.9	36
52	Mechanisms of Altered Ca ²⁺ Handling in Heart Failure. Circulation Research, 2013, 113, 690-708.	4.5	291
53	Oxidized Ca ²⁺ /Calmodulin-Dependent Protein Kinase II Triggers Atrial Fibrillation. Circulation, 2013, 128, 1748-1757.	1.6	256
54	CaMKII Is Essential for the Proasthmatic Effects of Oxidation. Science Translational Medicine, 2013, 5, 195ra97.	12.4	54

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55	Î² _{IV} -Spectrin and CaMKII facilitate Kir6.2 regulation in pancreatic beta cells. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17576-17581.	7.1	27
56	Regulation of Cardiac ATP-sensitive Potassium Channel Surface Expression by Calcium/Calmodulin-dependent Protein Kinase II. Journal of Biological Chemistry, 2013, 288, 1568-1581.	3.4	20
57	The Multifunctional Ca2+/Calmodulin-Dependent Kinase IIÎ´ (CaMKIIÎ´) Regulates Arteriogenesis in a Mouse Model of Flow-Mediated Remodeling. PLoS ONE, 2013, 8, e71550.	2.5	20
58	Diabetes increases mortality after myocardial infarction by oxidizing CaMKII. Journal of Clinical Investigation, 2013, 123, 1262-1274.	8.2	203
59	Regulator of G protein signaling 6 (RGS6) mediates doxorubicinâ€induced myocardial cell apoptosis and cardiomyopathy. FASEB Journal, 2013, 27, 1031.7.	0.5	0
60	New Therapeutic Targets in Cardiology. Circulation, 2012, 126, 2125-2139.	1.6	104
61	CaMKII inhibition rescues proarrhythmic phenotypes in the model of human ankyrin-B syndrome. Heart Rhythm, 2012, 9, 2034-2041.	0.7	42
62	CaMKII determines mitochondrial stress responses in heart. Nature, 2012, 491, 269-273.	27.8	340
63	MyD88 mediated inflammatory signaling leads to CaMKII oxidation, cardiac hypertrophy and death after myocardial infarction. Journal of Molecular and Cellular Cardiology, 2012, 52, 1135-1144.	1.9	103
64	Calmodulin-Dependent Protein Kinase II: Linking Heart Failure and Arrhythmias. Circulation Research, 2012, 110, 1661-1677.	4.5	242
65	CaMKII inhibition in vascular smooth muscle improves angiotensin IIâ€“hypertension. FASEB Journal, 2012, 26, lb599.	0.5	0
66	CaMKII in myocardial hypertrophy and heart failure. Journal of Molecular and Cellular Cardiology, 2011, 51, 468-473.	1.9	383
67	Exercise-induced expression of cardiac ATP-sensitive potassium channels promotes action potential shortening and energy conservation. Journal of Molecular and Cellular Cardiology, 2011, 51, 72-81.	1.9	52
68	CaMKII-dependent SR Ca leak contributes to doxorubicin-induced impaired Ca handling in isolated cardiac myocytes. Journal of Molecular and Cellular Cardiology, 2011, 51, 749-759.	1.9	107
69	Defects in Ankyrin-Based Membrane Protein Targeting Pathways Underlie Atrial Fibrillation. Circulation, 2011, 124, 1212-1222.	1.6	102
70	Reactive Oxygen Speciesâ€“Activated Ca/Calmodulin Kinase IIÎ´ Is Required for Late I _{Na} Augmentation Leading to Cellular Na and Ca Overload. Circulation Research, 2011, 108, 555-565.	4.5	256
71	The Multifunctional Ca2+/Calmodulin-dependent Kinase II Î´ (CaMKIIÎ´) Controls Neointima Formation after Carotid Ligation and Vascular Smooth Muscle Cell Proliferation through Cell Cycle Regulation by p21. Journal of Biological Chemistry, 2011, 286, 7990-7999.	3.4	53
72	Oxidation of CaMKII determines the cardiotoxic effects of aldosterone. Nature Medicine, 2011, 17, 1610-1618.	30.7	220

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73	Oxidized CaMKII causes cardiac sinus node dysfunction in mice. Journal of Clinical Investigation, 2011, 121, 3277-3288.	8.2	193
74	Ca _V 1.2 Î²-subunit coordinates CaMKII-triggered cardiomyocyte death and afterdepolarizations. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4996-5000.	7.1	114
75	Ca 2+ /Calmodulin-Dependent Kinase IIÎ´ Causes Heart Failure by Accumulation of p53 in Dilated Cardiomyopathy. Circulation, 2010, 122, 891-899.	1.6	81
76	Calmodulin kinase II is required for angiotensin II-mediated vascular smooth muscle hypertrophy. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H688-H698.	3.2	70
77	Ca2+/calmodulin-dependent protein kinase II in heart failure. Drug Discovery Today Disease Mechanisms, 2010, 7, e117-e122.	0.8	27
78	Mechanisms underlying heart failure. Drug Discovery Today Disease Mechanisms, 2010, 7, e83-e85.	0.8	1
79	CaMKII regulates contraction- but not insulin-induced glucose uptake in mouse skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2010, 298, E1150-E1160.	3.5	76
80	A Î²IV-spectrin/CaMKII signaling complex is essential for membrane excitability in mice. Journal of Clinical Investigation, 2010, 120, 3508-3519.	8.2	227
81	Calcium/calmodulin-dependent protein kinase II links ER stress with Fas and mitochondrial apoptosis pathways. Journal of Clinical Investigation, 2009, 119, 2925-2941.	8.2	367
82	Calmodulin kinase II is required for fight or flight sinoatrial node physiology. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5972-5977.	7.1	130
83	Oxidized Calmodulin Kinase II Regulates Conduction Following Myocardial Infarction: A Computational Analysis. PLoS Computational Biology, 2009, 5, e1000583.	3.2	64
84	Rescuing a failing heart: think globally, treat locally. Nature Medicine, 2009, 15, 25-26.	30.7	11
85	Ca2+/calmodulin-dependent kinase II triggers cell membrane injury by inducing complement factor B gene expression in the mouse heart. Journal of Clinical Investigation, 2009, 119, 986-96.	8.2	92
86	Calmodulin kinase IIâ€“mediated sarcoplasmic reticulum Ca2+ leak promotes atrial fibrillation in mice. Journal of Clinical Investigation, 2009, 119, 1940-51.	8.2	338
87	CaMKII mediates Angâ€ induced vascular smooth muscle cell hypertrophy by a pathway involving HDAC4/MEF2. FASEB Journal, 2009, 23, 637.8.	0.5	0
88	A Dynamic Pathway for Calcium-Independent Activation of CaMKII by Methionine Oxidation. Cell, 2008, 133, 462-474.	28.9	951
89	Proarrhythmic Defects in Timothy Syndrome Require Calmodulin Kinase II. Circulation, 2008, 118, 2225-2234.	1.6	82
90	Role of calmodulin kinase II in inotropic effect of Î± 1 â€adrenergic stimulation in the heart. FASEB Journal, 2008, 22, 970.18.	0.5	0

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91	Multiple downstream proarrhythmic targets for calmodulin kinase II: Moving beyond an ion channel-centric focus. Cardiovascular Research, 2007, 73, 657-666.	3.8	66
92	Calmodulin Kinase II Inhibition Enhances Ischemic Preconditioning by Augmenting ATP-Sensitive K⁺Current. Channels, 2007, 1, 387-394.	2.8	28
93	Calmodulin kinase II inhibition protects against myocardial cell apoptosis in vivo. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H3065-H3075.	3.2	121
94	Calmodulin Kinase II Inhibition Shortens Action Potential Duration by Upregulation of K + Currents. Circulation Research, 2006, 99, 1092-1099.	4.5	74
95	Death, Cardiac Dysfunction, and Arrhythmias Are Increased by Calmodulin Kinase II in Calcineurin Cardiomyopathy. Circulation, 2006, 114, 1352-1359.	1.6	104
96	Calmodulin kinase II inhibition protects against structural heart disease. Nature Medicine, 2005, 11, 409-417.	30.7	526
97	Calmodulin kinase signaling in heart: an intriguing candidate target for therapy of myocardial dysfunction and arrhythmias. , 2005, 106, 39-55.		117
98	Calmodulin Kinase and L-Type Calcium ChannelsA Recipe for Arrhythmias?. Trends in Cardiovascular Medicine, 2004, 14, 152-161.	4.9	66
99	Reduced repolarization reserve in ventricular myocytes from female mice. Cardiovascular Research, 2002, 53, 763-769.	3.8	58
100	Calmodulin Kinase II and Arrhythmias in a Mouse Model of Cardiac Hypertrophy. Circulation, 2002, 106, 1288-1293.	1.6	240
101	Calmodulin and the Philosopher's Stone: Changing Ca2+ into Arrhythmias. Journal of Cardiovascular Electrophysiology, 2002, 13, 195-197.	1.7	26
102	Cardiac repolarization: Current knowledge, critical gaps, and new approaches to drug development and patient management. American Heart Journal, 2002, 144, 769-781.	2.7	143
103	Functional Similarity Between Electrograms Recorded from an Implantable Cardioverter Defibrillator Emulator and the Surface Electrocardiogram. PACE - Pacing and Clinical Electrophysiology, 2001, 24, 34-40.	1.2	8
104	Is Digoxin an Antiarrhythmic Drug?. Journal of Interventional Cardiac Electrophysiology, 2000, 4, 313-316.	1.0	2
105	CaM kinase augments cardiac L-type Ca²⁺current: a cellular mechanism for long Q-T arrhythmias. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 276, H2168-H2178.	3.2	91
106	Calmodulin Kinase Inhibition Prevents Development of the Arrhythmogenic Transient Inward Current. Circulation Research, 1999, 84, 906-912.	4.5	109
107	Systemic Administration of Calmodulin Antagonist W-7 or Protein Kinase A Inhibitor H-8 Prevents Torsade de Pointes in Rabbits. Circulation, 1999, 100, 2437-2442.	1.6	89