

# Andriy E Belevych

## List of Publications by Year in descending order

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32  
papers

1,665  
citations

394421

19  
h-index

477307

29  
g-index

33  
all docs

33  
docs citations

33  
times ranked

2057  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Calsequestrin 2 deletion causes sinoatrial node dysfunction and atrial arrhythmias associated with altered sarcoplasmic reticulum calcium cycling and degenerative fibrosis within the mouse atrial pacemaker complex1. <i>European Heart Journal</i> , 2015, 36, 686-697.	2.2	110
5	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
6	Shortened Ca <sup>2+</sup> Signaling Refractoriness Underlies Cellular Arrhythmogenesis in a Postinfarction Model of Sudden Cardiac Death. <i>Circulation Research</i> , 2012, 110, 569-577.	4.5	99
7	Evaluation of Changes in Morphology and Function of Human Induced Pluripotent Stem Cell Derived Cardiomyocytes (hiPSC-CMs) Cultured on an Aligned-Nanofiber Cardiac Patch. <i>PLoS ONE</i> , 2015, 10, e0126338.	2.5	96
8	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
9	Increased RyR2 activity is exacerbated by calcium leak-induced mitochondrial ROS. <i>Basic Research in Cardiology</i> , 2020, 115, 38.	5.9	73
10	Calcium-Activated Potassium Current Modulates Ventricular Repolarization in Chronic Heart Failure. <i>PLoS ONE</i> , 2014, 9, e108824.	2.5	62
11	“Ryanopathy”: causes and manifestations of RyR2 dysfunction in heart failure. <i>Cardiovascular Research</i> , 2013, 98, 240-247.	3.8	57
12	Decreased RyR2 refractoriness determines myocardial synchronization of aberrant Ca <sup>2+</sup> release in a genetic model of arrhythmia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 10312-10317.	7.1	53
13	Neuronal Na <sup>+</sup> channel blockade suppresses arrhythmogenic diastolic Ca <sup>2+</sup> release. <i>Cardiovascular Research</i> , 2015, 106, 143-152.	3.8	38
14	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
15	Gene Transfer of Engineered Calmodulin Alleviates Ventricular Arrhythmias in a Calsequestrin-Associated Mouse Model of Catecholaminergic Polymorphic Ventricular Tachycardia. <i>Journal of the American Heart Association</i> , 2018, 7, .	3.7	32
16	Neuronal Na <sup>+</sup> Channels Are Integral Components of Pro-Arrhythmic Na <sup>+</sup> /Ca <sup>2+</sup> Signaling Nanodomain That Promotes Cardiac Arrhythmias During $\beta^2$ -Adrenergic Stimulation. <i>JACC Basic To Translational Science</i> , 2016, 1, 251-266.	4.1	31
17	Alternating membrane potential/calcium interplay underlies repetitive focal activity in a genetic model of calcium-dependent atrial arrhythmias. <i>Journal of Physiology</i> , 2015, 593, 1443-1458.	2.9	24
18	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

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19	Ablation of HRC alleviates cardiac arrhythmia and improves abnormal Ca handling in CASQ2 knockout mice prone to CPVT. <i>Cardiovascular Research</i> , 2015, 108, 299-311.	3.8	20
20	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
21	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
22	Sarcoplasmic reticulum-mitochondria communication; implications for cardiac arrhythmia. <i>Journal of Molecular and Cellular Cardiology</i> , 2021, 156, 105-113.	1.9	16
23	MCU overexpression evokes disparate dose-dependent effects on mito-ROS and spontaneous Ca <sup>2+</sup> release in hypertrophic rat cardiomyocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 321, H615-H632.	3.2	16
24	Ero1 $\pm$ -Dependent ERp44 Dissociation From RyR2 Contributes to Cardiac Arrhythmia. <i>Circulation Research</i> , 2022, 130, 711-724.	4.5	16
25	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
26	The role of calcium homeostasis remodeling in inherited cardiac arrhythmia syndromes. <i>Pflugers Archiv European Journal of Physiology</i> , 2021, 473, 377-387.	2.8	14
27	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
28	Muscarinic-dependent phosphorylation of the cardiac ryanodine receptor by protein kinase G is mediated by PI3K $\rightarrow$ AKT $\rightarrow$ nNOS signaling. <i>Journal of Biological Chemistry</i> , 2020, 295, 11720-11728.	3.4	6
29	Pyridostigmine improves cardiac function and rhythmicity through RyR2 stabilization and inhibition of STIM1 $\rightarrow$ mediated calcium entry in heart failure. <i>Journal of Cellular and Molecular Medicine</i> , 2021, 25, 4637-4648.	3.6	3
30	Acute Detubulation of Ventricular Myocytes Amplifies the Inhibitory Effect of Cholinergic Agonist on Intracellular Ca <sup>2+</sup> Transients. <i>Frontiers in Physiology</i> , 2021, 12, 725798.	2.8	0
31	Abstract 18111: Flecainide Exerts its Antiarrhythmic Action in CPVT Through Blockade of Neuronal Na <sup>+</sup> channel-mediated Arrhythmogenic Diastolic Ca <sup>2+</sup> Release. <i>Circulation</i> , 2015, 132, .	1.6	0
32	Mitochondrial calpain inhibition restores defective SR-mitochondrial crosstalk in CPVT rat myocytes. <i>Journal of General Physiology</i> , 2022, 154, .	1.9	0