Fadi G Akar

List of Publications by Citations

27 papers	1,664 citations	15 h-index	37 g-index
37 ext. papers	1,917 ext. citations	8.5 avg, IF	4.49 L-index

#	Paper	IF	Citations
27	Mechanism linking T-wave alternans to the genesis of cardiac fibrillation. *Circulation*, **1999**, 99, 1385-94	16.7	674
26	Unique topographical distribution of M cells underlies reentrant mechanism of torsade de pointes in the long-QT syndrome. *Circulation*, **2002**, 105, 1247-53	16.7	248
25	Transmural electrophysiological heterogeneities underlying arrhythmogenesis in heart failure. *Circulation Research*, **2003**, 93, 638-45	15.7	238
24	Oxidative stress and inflammation as central mediators of atrial fibrillation in obesity and diabetes. *Cardiovascular Diabetology*, **2017**, 16, 120	8.7	171
23	Cardiac I-1c overexpression with reengineered AAV improves cardiac function in swine ischemic heart failure. *Molecular Therapy*, **2014**, 22, 2038-2045	11.7	53
22	Mitochondria are sources of metabolic sink and arrhythmias. *Pharmacology & Therapeutics*, **2011**, 131, 287-94	13.9	50
21	Protein Phosphatase Inhibitor-1 Gene Therapy in a Swine Model of Nonischemic Heart Failure. *Journal of the American College of Cardiology*, **2017**, 70, 1744-1756	15.1	22
20	The mitochondrial translocator protein and arrhythmogenesis in ischemic heart disease. *Oxidative Medicine and Cellular Longevity*, **2015**, 2015, 234104	6.7	21
19	LKB1 deletion causes early changes in atrial channel expression and electrophysiology prior to atrial fibrillation. *Cardiovascular Research*, **2015**, 108, 197-208	9.9	20
18	Effect of bortezomib on the efficacy of AAV9.SERCA2a treatment to preserve cardiac function in a rat pressure-overload model of heart failure. *Gene Therapy*, **2014**, 21, 379-386	4	18
17	Intra-tracheal gene delivery of aerosolized SERCA2a to the lung suppresses ventricular arrhythmias in a model of pulmonary arterial hypertension. *Journal of Molecular and Cellular Cardiology*, **2019**, 127, 20-30	5.8	18
16	Acute Left Ventricular Unloading Reduces Atrial Stretch and Inhibits Atrial Arrhythmias. *Journal of the American College of Cardiology*, **2018**, 72, 738-750	15.1	17
15	Renewal Theory as a Universal Quantitative Framework to Characterize Phase Singularity Regeneration in Mammalian Cardiac Fibrillation. *Circulation: Arrhythmia and Electrophysiology*, **2019**, 12, e007569	6.4	17
14	The Classically Cardioprotective Agent Diazoxide Elicits Arrhythmias in Type 2 Diabetes Mellitus. *Journal of the American College of Cardiology*, **2015**, 66, 1144-1156	15.1	15
13	Increased afterload following myocardial infarction promotes conduction-dependent arrhythmias that are unmasked by hypokalemia. *JACC Basic To Translational Science*, **2017**, 2, 258-269	8.7	15
12	Reducing mitochondrial bound hexokinase II mediates transition from non-injurious into injurious ischemia/reperfusion of the intact heart. *Journal of Physiology and Biochemistry*, **2016**, 73, 323-333	5	13
11	The Mitochondrial Translocator Protein and the Emerging Link Between Oxidative Stress and Arrhythmias in the Diabetic Heart. *Frontiers in Physiology*, **2018**, 9, 1518	4.6	12

List of Publications

10	Cardiomyocyte-Specific STIM1 (Stromal Interaction Molecule 1) Depletion in the Adult Heart Promotes the Development of Arrhythmogenic Discordant Alternans. *Circulation: Arrhythmia and Electrophysiology*, **2019**, 12, e007382	6.4	10
9	Mitochondrial targets for arrhythmia suppression: is there a role for pharmacological intervention?. *Journal of Interventional Cardiac Electrophysiology*, **2013**, 37, 249-58	2.4	8
8	Gene therapies for arrhythmias in heart failure. *Pflugers Archiv European Journal of Physiology*, **2014** , 466, 1211-7	4.6	7
7	Optical Action Potential Mapping in Acute Models of Ischemia-Reperfusion Injury: Probing the Arrhythmogenic Role of the Mitochondrial Translocator Protein. *Methods in Molecular Biology*, **2018** , 1816, 133-143	1.4	3
6	Recurrence quantification analysis of complex-fractionated electrograms differentiates active and passive sites during atrial fibrillation. *Journal of Cardiovascular Electrophysiology*, **2019**, 30, 2229-2238	2.7	3
5	NAD Repletion Therapy: A Silver Bullet for HFpEF?. *Circulation Research*, **2021**, 128, 1642-1645	15.7	2
4	Impaired Right Ventricular Calcium Cycling Is an Early Risk Factor in R14del-Phospholamban Arrhythmias. *Journal of Personalized Medicine*, **2021**, 11,	3.6	2
3	Arrhythmia Mechanism and Dynamics in a Humanized Mouse Model of Inherited Cardiomyopathy Caused by Phospholamban R14del Mutation. *Circulation*, **2021**, 144, 441-454	16.7	2
2	Commentary: Atrial Fibrillation Dynamics and Ionic Block Effects in Six Heterogeneous Human 3D Virtual Atria with Distinct Repolarization Dynamics. *Frontiers in Bioengineering and Biotechnology*, **2017**, 5, 59	5.8	
1	Arrhythmia models: in vivo, in vitro and in silico. *Drug Discovery Today: Disease Models*, **2009**, 6, 55-56	1.3	