Tae Yun Kim

List of Publications by Year
in descending order

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50	728	516710 16	580821 25
papers	citations	h-index	g-index

52	52	52	975
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ero1Î±-Dependent ERp44 Dissociation From RyR2 Contributes to Cardiac Arrhythmia. Circulation Research, 2022, 130, 711-724.	4.5	16
2	Methodology for Cross-Talk Elimination in Simultaneous Voltage and Calcium Optical Mapping Measurements With Semasbestic Wavelengths. Frontiers in Physiology, 2022, 13, 812968.	2.8	6
3	IL-18 mediates sickle cell cardiomyopathy and ventricular arrhythmias. Blood, 2021, 137, 1208-1218.	1.4	22
4	Interleukin-1Î², Oxidative Stress, and Abnormal Calcium Handling Mediate Diabetic Arrhythmic Risk. JACC Basic To Translational Science, 2021, 6, 42-52.	4.1	25
5	The Sarcoplasmic Reticulum Oxidoreductase System Modulates Luminal Ca2+ Regulation of the Ryanodine Receptor in Cardiac Disease. Biophysical Journal, 2021, 120, 239a.	0.5	0
6	A predictive in vitro risk assessment platform for pro-arrhythmic toxicity using human 3D cardiac microtissues. Scientific Reports, 2021, 11, 10228.	3.3	19
7	Human Atrial Cardiac Microtissues for Chamber-Specific Arrhythmic Risk Assessment. Cellular and Molecular Bioengineering, 2021, 14, 441-457.	2.1	6
8	PKA phosphorylation underlies functional recruitment of sarcolemmal SK2 channels in ventricular myocytes from hypertrophic hearts. Journal of Physiology, 2020, 598, 2847-2873.	2.9	23
9	Role of SK Current Rectification in Shaping Action Potential of Ventricular Cardiomyocytes. Biophysical Journal, 2020, 118, 253a.	0.5	0
10	Inhibition of Tyrosine Kinase Pyk2 in Hypertrophic Hearts: Cellular Mechanisms of Anti-Arrhythmic Effects. Biophysical Journal, 2020, 118, 566a.	0.5	0
11	Mutations in KCNE1 Promote Cardiac Alternans in Long QT Syndrome Type 5 Rabbits. Biophysical Journal, 2020, 118, 102a.	0.5	1
12	Human Cardiac Fibroblast Number and Activation State Modulate Electromechanical Function of hiPSC-Cardiomyocytes in Engineered Myocardium. Stem Cells International, 2020, 2020, 1-16.	2.5	18
13	Impact of ISK Voltage and Ca2+/Mg2+-Dependent Rectification on Cardiac Repolarization. Biophysical Journal, 2020, 119, 690-704.	0.5	5
14	Late I _{Na} Blocker GS967 Supresses Polymorphic Ventricular Tachycardia in a Transgenic Rabbit Model of Long QT Type 2. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e006875.	4.8	11
15	Scarring and Arrhythmia in the Aged Infarcted Heart: The Role of Senescent Fibroblasts. FASEB Journal, 2020, 34, 1-1.	0.5	0
16	Short-Long Heart Rate Variation Increases Dispersion of Action Potential Duration in Long QT Type 2 Transgenic Rabbit Model. Scientific Reports, 2019, 9, 14849.	3.3	6
17	LITAF (Lipopolysaccharide-Induced Tumor Necrosis Factor) Regulates Cardiac L-Type Calcium Channels by Modulating NEDD (Neural Precursor Cell Expressed Developmentally Downregulated Protein) 4-1 Ubiquitin Ligase. Circulation Genomic and Precision Medicine, 2019, 12, 407-420.	3.6	9
18	The Role of Myofibroblast Senescence in Arrhythmogenesis of the Aged Infarcted Heart. Biophysical Journal, 2019, 116, 422a.	0.5	0

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19	Pharmacological Modulation of Mitochondrial Ca2+ Uptake Regulates Sarcoplasmic Reticulum Ca2+ Release via Oxidation of Ryanodine Receptor by Reactive Oxygen Species. Biophysical Journal, 2019, 116, 382a.	0.5	0
20	LITAF regulates action potential duration by modulating NEDD4â€1â€mediated degradation of Lâ€type calcium channels. FASEB Journal, 2019, 33, 824.19.	0.5	0
21	HuR-mediated SCN5A messenger RNA stability reduces arrhythmic risk in heart failure. Heart Rhythm, 2018, 15, 1072-1080.	0.7	15
22	Facilitation of SK Channel Activity via Inhibition OF PYK2-Dependent Tyrosine Phosphorylation Alleviates Ventricular Tachyarrhythmia in Cardiac Hypertrophy. Biophysical Journal, 2018, 114, 383a-384a.	0.5	0
23	Mechanisms linking Tâ€wave alternans to spontaneous initiation of ventricular arrhythmias in rabbit models of long QT syndrome. Journal of Physiology, 2018, 596, 1341-1355.	2.9	40
24	Cardiac Action Potential Propagation through Compact Fibroblasts in 3D Cardiac Microtissues Engineered from Self-Assembled Spheroids as Building Blocks. Biophysical Journal, 2018, 114, 626a.	0.5	1
25	Pharmacological Modulation of Mitochondrial Ca2+ Content Regulates Sarcoplasmic Reticulum Ca2+ Release via Oxidation of the Ryanodine Receptor by Mitochondria-Derived Reactive Oxygen Species. Frontiers in Physiology, 2018, 9, 1831.	2.8	42
26	Transient Outward K ⁺ Current (I _{to}) Underlies the Right Ventricular Initiation of Polymorphic Ventricular Tachycardia in a Transgenic Rabbit Model of Long-QT Syndrome Type 1. Circulation: Arrhythmia and Electrophysiology, 2018, 11, e005414.	4.8	15
27	Directed fusion of cardiac spheroids into larger heterocellular microtissues enables investigation of cardiac action potential propagation via cardiac fibroblasts. PLoS ONE, 2018, 13, e0196714.	2.5	41
28	SK Channel Enhancers Attenuate Ca ²⁺ -Dependent Arrhythmia in Hypertrophic Hearts by Regulating Mito-ROS-Dependent Oxidation and Activity of RyR.. Cardiovascular Research, 2017, 113, cvx005.	3.8	45
29	Laser-Etched Designs for Molding Hydrogel-Based Engineered Tissues. Tissue Engineering - Part C: Methods, 2017, 23, 311-321.	2.1	26
30	Regulation of the Human Ether-A-Go-Go-Related Gene (hERG) Potassium Channel by the Ubiquitin Ligase Rififylin (RFFL). Biophysical Journal, 2017, 112, 253a.	0.5	0
31	Gq-activated fibroblasts induce cardiomyocyte action potential prolongation and automaticity in a three-dimensional microtissue environment. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 313, H810-H827.	3.2	25
32	Spontaneous initiation of premature ventricular complexes and arrhythmias in type 2 long QT syndrome. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 311, H1470-H1484.	3.2	36
33	Modulation of Action Potential Alternans by IKs in Myocardial Infarction. Biophysical Journal, 2015, 108, 273a.	0.5	0
34	Spatially Discordant Alternans and Arrhythmias in Tachypacing-Induced Cardiac Myopathy in Transgenic LQT1 Rabbits: The Importance of IKs and Ca2+ Cycling. PLoS ONE, 2015, 10, e0122754.	2.5	23
35	Complex excitation dynamics underlie polymorphic ventricular tachycardia in a transgenic rabbit model of long QT syndrome type 1. Heart Rhythm, 2015, 12, 220-228.	0.7	43
36	Progesterone modulates SERCA2a expression and function in rabbit cardiomyocytes. American Journal of Physiology - Cell Physiology, 2014, 307, C1050-C1057.	4.6	16

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37	RING Finger Protein RNF207, a Novel Regulator of Cardiac Excitation. Journal of Biological Chemistry, 2014, 289, 33730-33740.	3.4	38
38	Abstract 16606: Cardiac Fibroblast-Restricted Enhancement of G _q Signaling Prolongs Calcium Transients and Increases Spontaneous Activity in Biomimetic Cardiac Microtissues. Circulation, 2014, 130, .	1.6	0
39	Different Ventricular Fibrillation (VF) Dynamics in Long QT Syndrome Type 1 vs. 2 in a Transgenic Rabbit Model. Biophysical Journal, 2013, 104, 294a-295a.	0.5	0
40	TTX Converts Polymorphic VT to Monomorphic VT in Transgenic Rabbit Model of LQT1. Biophysical Journal, 2013, 104, 294a.	0.5	0
41	Alternans by non-monotonic conduction velocity restitution, bistability and memory. New Journal of Physics, 2013, 15, 013046.	2.9	3
42	Alternating Cycle Lengths Increases Dispersion of Action Potential Durations (APD) in Transgenic Rabbit Model of Long QT Syndrome Type 2. Biophysical Journal, 2012, 102, 539a-540a.	0.5	0
43	MEMS-based power generation system using contractile force generated by self-organized cardiomyocytes. Sensors and Actuators B: Chemical, 2010, 151, 291-296.	7.8	10
44	MEMS power generation using activation of cardiomyocytes on a PMN-PT diaphragm. , 2010, , .		1
45	Period-2 spiral waves supported by nonmonotonic wave dispersion. Physical Review E, 2010, 82, 046213.	2.1	13
46	Spiral reentry waves in confluent layer of HL-1 cardiomyocyte cell lines. Biochemical and Biophysical Research Communications, 2008, 377, 1269-1273.	2.1	17
47	Spiral wave drift and complex-oscillatory spiral waves caused by heterogeneities in two-dimensionalin vitrocardiac tissues. New Journal of Physics, 2008, 10, 015005.	2.9	15
48	Nucleation, Drift, and Decay of Phase Bubbles in Period-2 Oscillatory Wave Trains in a Reaction-Diffusion System. Physical Review Letters, 2008, 100, 068302.	7.8	8
49	Cardiac beat-to-beat alternations driven by unusual spiral waves. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11639-11642.	7.1	20
50	From The Cover: Complex-periodic spiral waves in confluent cardiac cell cultures induced by localized inhomogeneities. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10363-10368.	7.1	68