

Xun Ai

List of Publications by Year in descending order

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41
papers

1,935
citations

361413

20
h-index

345221

36
g-index

41
all docs

41
docs citations

41
times ranked

2214
citing authors

#	ARTICLE	IF	CITATIONS
1	Ca ²⁺ /Calmodulin-Dependent Protein Kinase Modulates Cardiac Ryanodine Receptor Phosphorylation and Sarcoplasmic Reticulum Ca ²⁺ Leak in Heart Failure. <i>Circulation Research</i> , 2005, 97, 1314-1322.	4.5	614
2	Role of RyR2 Phosphorylation at S2814 During Heart Failure Progression. <i>Circulation Research</i> , 2012, 110, 1474-1483.	4.5	187
3	Connexin 43 Downregulation and Dephosphorylation in Nonischemic Heart Failure Is Associated With Enhanced Colocalized Protein Phosphatase Type 2A. <i>Circulation Research</i> , 2005, 96, 54-63.	4.5	184
4	Atrial fibrillation. <i>Nature Reviews Disease Primers</i> , 2022, 8, 21.	30.5	126
5	Arrhythmogenic Effects of β_2 -Adrenergic Stimulation in the Failing Heart Are Attributable to Enhanced Sarcoplasmic Reticulum Ca Load. <i>Circulation Research</i> , 2008, 102, 1389-1397.	4.5	98
6	c-Jun N-terminal kinase activation contributes to reduced connexin43 and development of atrial arrhythmias. <i>Cardiovascular Research</i> , 2013, 97, 589-597.	3.8	64
7	Stress Signaling JNK2 Crosstalk With CaMKII Underlies Enhanced Atrial Arrhythmogenesis. <i>Circulation Research</i> , 2018, 122, 821-835.	4.5	64
8	Role of Stress Kinase JNK in Binge Alcohol-Evoked Atrial Arrhythmia. <i>Journal of the American College of Cardiology</i> , 2018, 71, 1459-1470.	2.8	58
9	Ion Channel and Structural Remodeling in Obesity-Mediated Atrial Fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020, 13, e008296.	4.8	53
10	The stress kinase JNK regulates gap junction Cx43 gene expression and promotes atrial fibrillation in the aged heart. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 114, 105-115.	1.9	49
11	Enhanced activation of p21-activated kinase 1 in heart failure contributes to dephosphorylation of connexin 43. <i>Cardiovascular Research</i> , 2011, 92, 106-114.	3.8	40
12	Silibinin Inhibits NSCLC Metastasis by Targeting the EGFR/LOX Pathway. <i>Frontiers in Pharmacology</i> , 2018, 9, 21.	3.5	36
13	Intra-Sarcoplasmic Reticulum Free [Ca ²⁺] and Buffering in Arrhythmogenic Failing Rabbit Heart. <i>Circulation Research</i> , 2007, 101, 802-810.	4.5	34
14	Genetic Deletion of Rnd3/RhoE Results in Mouse Heart Calcium Leakage Through Upregulation of Protein Kinase A Signaling. <i>Circulation Research</i> , 2015, 116, e1-e10.	4.5	29
15	Two novel camptothecin derivatives inhibit colorectal cancer proliferation via induction of cell cycle arrest and apoptosis in vitro and in vivo. <i>European Journal of Pharmaceutical Sciences</i> , 2018, 123, 546-559.	4.0	29
16	JNK2, a Newly-Identified SERCA2 Enhancer, Augments an Arrhythmic [Ca ²⁺] _{SR} Leak-Load Relationship. <i>Circulation Research</i> , 2021, 128, 455-470.	4.5	28
17	Connexin43 knockdown or overexpression modulates cell coupling in control and failing rabbit left ventricular myocytes. <i>Cardiovascular Research</i> , 2010, 85, 751-762.	3.8	27
18	Transcriptional regulation of stress kinase JNK2 in pro-arrhythmic CaMKII β expression in the aged atrium. <i>Cardiovascular Research</i> , 2018, 114, 737-746.	3.8	27

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19	Regulation of cardiac gap junctions by protein phosphatases. <i>Journal of Molecular and Cellular Cardiology</i> , 2017, 107, 52-57.	1.9	23
20	Novel Methods of Automated Quantification of Gap Junction Distribution and Interstitial Collagen Quantity from Animal and Human Atrial Tissue Sections. <i>PLoS ONE</i> , 2014, 9, e104357.	2.5	22
21	Bacterial protein AvrA stabilizes intestinal epithelial tight junctions via blockage of the C-Jun N-terminal kinase pathway. <i>Tissue Barriers</i> , 2015, 3, e972849.	3.2	20
22	Ablation of the calpain-targeted site in cardiac myosin binding protein-C is cardioprotective during ischemia-reperfusion injury. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 129, 236-246.	1.9	20
23	Ero1±-Dependent ERp44 Dissociation From RyR2 Contributes to Cardiac Arrhythmia. <i>Circulation Research</i> , 2022, 130, 711-724.	4.5	16
24	ZO-1 Regulates Intercalated Disc Composition and Atrioventricular Node Conduction. <i>Circulation Research</i> , 2020, 127, e28-e43.	4.5	13
25	Upregulation of transient receptor potential melastatin 4 (TRPM4) in ventricular fibroblasts from heart failure patients. <i>Pflugers Archiv European Journal of Physiology</i> , 2021, 473, 521-531.	2.8	13
26	The Stress-Response MAP Kinase Signaling in Cardiac Arrhythmias. <i>Reviews of Physiology, Biochemistry and Pharmacology</i> , 2016, 172, 77-100.	1.6	11
27	Serine-threonine protein phosphatase regulation of Cx43 dephosphorylation in arrhythmogenic disorders. <i>Cellular Signalling</i> , 2021, 86, 110070.	3.6	9
28	SR calcium handling dysfunction, stress-response signaling pathways, and atrial fibrillation. <i>Frontiers in Physiology</i> , 2015, 6, 46.	2.8	7
29	Alterations of housekeeping proteins in human aged and diseased hearts. <i>Pflugers Archiv European Journal of Physiology</i> , 2021, 473, 351-362.	2.8	7
30	Voltage and Calcium Dual Channel Optical Mapping of Cultured HL-1 Atrial Myocyte Monolayer. <i>Journal of Visualized Experiments</i> , 2015, , .	0.3	6
31	TRAF3 negatively regulates platelet activation and thrombosis. <i>Scientific Reports</i> , 2017, 7, 17112.	3.3	6
32	Molecular remodeling of Cx43, but not structural remodeling, promotes arrhythmias in an arrhythmogenic canine model of nonischemic heart failure. <i>Journal of Molecular and Cellular Cardiology</i> , 2021, 158, 72-81.	1.9	6
33	Causal roles of stress kinase JNK2 in DNA methylation and binge alcohol withdrawal-evoked behavioral deficits. <i>Pharmacological Research</i> , 2021, 164, 105375.	7.1	3
34	Stress-driven cardiac calcium mishandling via a kinase-to-kinase crosstalk. <i>Pflugers Archiv European Journal of Physiology</i> , 2021, 473, 363-375.	2.8	3
35	Evidence of CaMKII-Regulated Late I Na in Atrial Fibrillation Patients With Sleep Apnea. <i>Circulation Research</i> , 2020, 126, 616-618.	4.5	2
36	Abstract 19557: Novel Stress Signaling JNK Regulates Pro-arrhythmic Molecular CaMKII Activity and Expression in Aged Human Atrium. <i>Circulation</i> , 2014, 130, .	1.6	1

#	ARTICLE	IF	CITATIONS
37	Cardiac Electrophysiology. Scientific World Journal, The, 2013, 2013, 1-1.	2.1	0
38	Heart Failure. Scientific World Journal, The, 2014, 2014, 1-1.	2.1	0
39	Editorial: Innovative Approaches to Tackle Atrial Fibrillation: From Bench to Bedside. Frontiers in Cardiovascular Medicine, 2020, 7, 566239.	2.4	0
40	A special issue on calcium dynamics of the heart: remodeling of ion channels and regulatory pathways. Pflugers Archiv European Journal of Physiology, 2021, 473, 313-316.	2.8	0
41	The Anti-Arrhythmic Potential of Aldehyde Dehydrogenase 2. Heart Rhythm, 2022, , .	0.7	0