Jiang Liu

List of Publications by Year in descending order

54 papers	2,941 citations	159585 30 h-index	168389 53 g-index
62 all docs	62 docs citations	62 times ranked	1968 citing authors

#	Article	IF	Citations
1	Ouabain Interaction with Cardiac Na+/K+-ATPase Initiates Signal Cascades Independent of Changes in Intracellular Na+ and Ca2+ Concentrations. Journal of Biological Chemistry, 2000, 275, 27838-27844.	3.4	323
2	Intracellular Reactive Oxygen Species Mediate the Linkage of Na+/K+-ATPase to Hypertrophy and Its Marker Genes in Cardiac Myocytes. Journal of Biological Chemistry, 1999, 274, 19323-19328.	3.4	281
3	Identification of a Pool of Non-pumping Na/K-ATPase. Journal of Biological Chemistry, 2007, 282, 10585-10593.	3.4	213
4	Marinobufagenin Stimulates Fibroblast Collagen Production and Causes Fibrosis in Experimental Uremic Cardiomyopathy. Hypertension, 2007, 49, 215-224.	2.7	145
5	Ouabain induces endocytosis of plasmalemmal Na/K-ATPase in LLC-PK1 cells by a clathrin-dependent mechanism. Kidney International, 2004, 66, 227-241.	5.2	138
6	Ouabain-induced endocytosis of the plasmalemmal Na/K-ATPase in LLC-PK1 cells requires caveolin-1. Kidney International, 2005, 67, 1844-1854.	5.2	120
7	The sodium pump and cardiotonic steroids-induced signal transduction protein kinases and calcium-signaling microdomain in regulation of transporter trafficking. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2010, 1802, 1237-1245.	3.8	109
8	Involvement of Reactive Oxygen Species in a Feed-forward Mechanism of Na/K-ATPase-mediated Signaling Transduction. Journal of Biological Chemistry, 2013, 288, 34249-34258.	3.4	85
9	Marinobufagenin induces increases in procollagen expression in a process involving protein kinase C and Fli-1: implications for uremic cardiomyopathy. American Journal of Physiology - Renal Physiology, 2009, 296, F1219-F1226.	2.7	84
10	CD36 and Na/K-ATPase-Î±1 Form a Proinflammatory Signaling Loop in Kidney. Hypertension, 2013, 61, 216-224.	2.7	84
11	Salt loading induces redistribution of the plasmalemmal Na/K-ATPase in proximal tubule cells. Kidney International, 2005, 67, 1868-1877.	5.2	69
12	Title is missing!. Molecular and Cellular Biochemistry, 2003, 242, 181-187.	3.1	68
13	Effects of cardiac glycosides on sodium pump expression and function in LLC-PK1 and MDCK cells. Kidney International, 2002, 62, 2118-2125.	5.2	66
14	Effect of green tea extract on cardiac hypertrophy following 5/6 nephrectomy in the rat. Kidney International, 2003, 63, 1785-1790.	5.2	64
15	Impairment of Na/K-ATPase Signaling in Renal Proximal Tubule Contributes to Dahl Salt-sensitive Hypertension. Journal of Biological Chemistry, 2011, 286, 22806-22813.	3.4	61
16	Regulation of apical NHE3 trafficking by ouabain-induced activation of the basolateral Na⁺-K⁺-ATPase receptor complex. American Journal of Physiology - Cell Physiology, 2008, 294, C555-C563.	4.6	52
17	Reactive Oxygen Species Modulation of Na/K-ATPase Regulates Fibrosis and Renal Proximal Tubular Sodium Handling. International Journal of Nephrology, 2012, 2012, 1-14.	1.3	52
18	Attenuation of Na/K-ATPase Mediated Oxidant Amplification with pNaKtide Ameliorates Experimental Uremic Cardiomyopathy. Scientific Reports, 2016, 6, 34592.	3.3	51

#	Article	IF	Citations
19	Involvement of Na+/K+-ATPase in hydrogen peroxide-induced hypertrophy in cardiac myocytes. Free Radical Biology and Medicine, 2006, 41, 1548-1556.	2.9	47
20	Na/K-ATPase signaling regulates collagen synthesis through microRNA-29b-3p in cardiac fibroblasts. Physiological Genomics, 2016, 48, 220-229.	2.3	47
21	Cardiac glycoside downregulates NHE3 activity and expression in LLC-PK1 cells. American Journal of Physiology - Renal Physiology, 2006, 290, F997-F1008.	2.7	43
22	The Na/K-ATPase Signaling: From Specific Ligands to General Reactive Oxygen Species. International Journal of Molecular Sciences, 2018, 19, 2600.	4.1	42
23	Regulation of sodium pump endocytosis by cardiotonic steroids: Molecular mechanisms and physiological implications. Pathophysiology, 2007, 14, 171-181.	2.2	41
24	Ouabain-stimulated trafficking regulation of the Na/K-ATPase and NHE3 in renal proximal tubule cells. Molecular and Cellular Biochemistry, 2012, 367, 175-183.	3.1	37
25	Na/K-ATPase signaling mediates miR-29b-3p regulation and cardiac fibrosis formation in mice with chronic kidney disease. PLoS ONE, 2018, 13, e0197688.	2.5	36
26	Involvement of mitogen-activated protein kinases and reactive oxygen species in the inotropic action of ouabain on cardiac myocytes. A potential role for mitochondrial K(ATP) channels. Molecular and Cellular Biochemistry, 2003, 242, 181-7.	3.1	35
27	Rapamycin Attenuates Cardiac Fibrosis in Experimental Uremic Cardiomyopathy by Reducing Marinobufagenin Levels and Inhibiting Downstream Proâ€Fibrotic Signaling. Journal of the American Heart Association, 2016, 5, .	3.7	33
28	Targeting Na/K-ATPase Signaling: A New Approach to Control Oxidative Stress. Current Pharmaceutical Design, 2018, 24, 359-364.	1.9	33
29	Protein Carbonylation of an Amino Acid Residue of the Na/Kâ€ATPase Î±1 Subunit Determines Na/Kâ€ATPase Signaling and Sodium Transport in Renal Proximal Tubular Cells. Journal of the American Heart Association, 2016, 5, .	3.7	32
30	Reduction of Na/K-ATPase affects cardiac remodeling and increases c-kit cell abundance in partial nephrectomized mice. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 306, H1631-H1643.	3.2	23
31	Effects of Na/K-ATPase and its ligands on bone marrow stromal cell differentiation. Stem Cell Research, 2014, 13, 12-23.	0.7	23
32	Cigarette smoking causes epigenetic changes associated with cardiorenal fibrosis. Physiological Genomics, 2016, 48, 950-960.	2.3	21
33	A Mouse 5/6th Nephrectomy Model That Induces Experimental Uremic Cardiomyopathy. Journal of Visualized Experiments, 2017, , .	0.3	21
34	Carbonylation Modification Regulates Na/K-ATPase Signaling and Salt Sensitivity: A Review and a Hypothesis. Frontiers in Physiology, 2016, 7, 256.	2.8	20
35	Sodium potassium adenosine triphosphatase (Na/K-ATPase) as a therapeutic target for uremic cardiomyopathy. Expert Opinion on Therapeutic Targets, 2017, 21, 531-541.	3.4	20
36	EFFECTS OF HYPOKALEMIA ON CARDIAC GROWTH. Renal Failure, 2000, 22, 561-572.	2.1	17

#	Article	IF	Citations
37	The Na/K-ATPase Î±1 and c-Src form signaling complex under native condition: A crosslinking approach. Scientific Reports, 2020, 10, 6006.	3.3	16
38	Ouabain and Insulin Induce Sodium Pump Endocytosis in Renal Epithelium. Hypertension, 2012, 59, 665-672.	2.7	15
39	Central Role for Adipocyte Na,K-ATPase Oxidant Amplification Loop in the Pathogenesis of Experimental Uremic Cardiomyopathy. Journal of the American Society of Nephrology: JASN, 2020, 31, 1746-1760.	6.1	15
40	Ouabain-induced endocytosis and signal transduction of the Na/K-ATPase. Frontiers in Bioscience - Landmark, 2005, 10, 2056.	3.0	14
41	Differential roles of caveolin-1 in ouabain-induced Na+/K+-ATPase cardiac signaling and contractility. Physiological Genomics, 2016, 48, 739-748.	2.3	14
42	The Redox-Sensitive Na/K-ATPase Signaling in Uremic Cardiomyopathy. International Journal of Molecular Sciences, 2020, 21, 1256.	4.1	12
43	Metabolic Syndrome and Salt-Sensitive Hypertension in Polygenic Obese TALLYHO/JngJ Mice: Role of Na/K-ATPase Signaling. International Journal of Molecular Sciences, 2019, 20, 3495.	4.1	9
44	Hiding inside? Intracellular expression of non-glycosylated c-kit protein in cardiac progenitor cells. Stem Cell Research, 2016, 16, 795-806.	0.7	8
45	Na/K-ATPase Signaling and Salt Sensitivity: The Role of Oxidative Stress. Antioxidants, 2017, 6, 18.	5.1	8
46	Oxidant-Induced Alterations in the Adipocyte Transcriptome: Role of the Na,K-ATPase Oxidant Amplification Loop. International Journal of Molecular Sciences, 2020, 21, 5923.	4.1	7
47	The Na/K-ATPase Signaling and SGLT2 Inhibitor-Mediated Cardiorenal Protection: A Crossed Road?. Journal of Membrane Biology, 2021, 254, 513-529.	2.1	7
48	Downregulation of cardiac myocyte Na+-K+-ATPase by adenovirus-mediated expression of an Î±-subunit fragment. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H1415-H1421.	3.2	6
49	The potential role of Na-K-ATPase and its signaling in the development of anemia in chronic kidney disease. American Journal of Physiology - Renal Physiology, 2021, 320, F234-F242.	2.7	6
50	Role of adipocyte Na,K-ATPase oxidant amplification loop in cognitive decline and neurodegeneration. IScience, 2021, 24, 103262.	4.1	3
51	Blockage of the Na-K-ATPase signaling-mediated oxidant amplification loop elongates red blood cell half-life and ameliorates uremic anemia induced by 5/6th PNx in C57BL/6 mice. American Journal of Physiology - Renal Physiology, 2022, 322, F655-F666.	2.7	3
52	The Na/K-ATPase Signaling Regulates Natriuresis in Renal Proximal Tubule. , 0, , .		1
53	Na/Kâ€ATPase in Boneâ€Marrow Derived Stromal Cells. FASEB Journal, 2013, 27, 726.8.	0.5	0
54	Protein Carbonylation Regulates Renal Proximal Tubular Na/Kâ€ATPase signaling and Sodium Transport. FASEB Journal, 2013, 27, 1115.11.	0.5	0