

# Lei Xi

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89  
papers

3,637  
citations

32  
h-index

59  
g-index

100  
ext. papers

4,023  
ext. citations

6  
avg, IF

5.29  
L-index

#	Paper	IF	Citations
89	Phosphodiesterase-5 inhibitor sildenafil preconditions adult cardiac myocytes against necrosis and apoptosis. Essential role of nitric oxide signaling. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 12944-55	5.4	272
88	Sildenafil induces delayed preconditioning through inducible nitric oxide synthase-dependent pathway in mouse heart. <i>Circulation Research</i> , <b>2003</b> , 92, 595-7	15.7	205
87	Rapamycin confers preconditioning-like protection against ischemia-reperfusion injury in isolated mouse heart and cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2006</b> , 41, 256-64	5.8	166
86	Pharmacological preconditioning with sildenafil: Basic mechanisms and clinical implications. <i>Vascular Pharmacology</i> , <b>2005</b> , 42, 219-32	5.9	155
85	Protein kinase G-dependent cardioprotective mechanism of phosphodiesterase-5 inhibition involves phosphorylation of ERK and GSK3beta. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 29572-85	5.4	153
84	PDE5 inhibitors as therapeutics for heart disease, diabetes and cancer. <i>Pharmacology &amp; Therapeutics</i> , <b>2015</b> , 147, 12-21	13.9	144
83	Inducible nitric oxide synthase mediates delayed myocardial protection induced by activation of adenosine A(1) receptors: evidence from gene-knockout mice. <i>Circulation</i> , <b>2000</b> , 102, 902-7	16.7	135
82	Cardioprotection with phosphodiesterase-5 inhibition--a novel preconditioning strategy. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2004</b> , 36, 165-73	5.8	131
81	Essential role of inducible nitric oxide synthase in monophosphoryl lipid A-induced late cardioprotection: evidence from pharmacological inhibition and gene knockout mice. <i>Circulation</i> , <b>1999</b> , 99, 2157-63	16.7	121
80	ERK phosphorylation mediates sildenafil-induced myocardial protection against ischemia-reperfusion injury in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2009</b> , 296, H1236-43	5.2	110
79	Mammalian target of rapamycin (mTOR) inhibition with rapamycin improves cardiac function in type 2 diabetic mice: potential role of attenuated oxidative stress and altered contractile protein expression. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 4145-60	5.4	107
78	Cobalt chloride induces delayed cardiac preconditioning in mice through selective activation of HIF-1alpha and AP-1 and iNOS signaling. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2004</b> , 287, H2369-75	5.2	107
77	Hypoxia inducible factor 1 (HIF-1) and cardioprotection. <i>Acta Pharmacologica Sinica</i> , <b>2010</b> , 31, 1085-94	8	102
76	Long-acting phosphodiesterase-5 inhibitor tadalafil attenuates doxorubicin-induced cardiomyopathy without interfering with chemotherapeutic effect. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2010</b> , 334, 1023-30	4.7	80
75	Dietary nitrate supplementation protects against Doxorubicin-induced cardiomyopathy by improving mitochondrial function. <i>Journal of the American College of Cardiology</i> , <b>2011</b> , 57, 2181-9	15.1	71
74	Opening of Ca <sup>2+</sup> -activated K <sup>+</sup> channels triggers early and delayed preconditioning against I/R injury independent of NOS in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2004</b> , 287, H2070-7	5.2	68
73	Essential role of mitochondrial Ca <sup>2+</sup> -activated and ATP-sensitive K <sup>+</sup> channels in sildenafil-induced late cardioprotection. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2008</b> , 44, 105-13	5.8	67

72	Hypoxia, HIF-1 $\beta$ and COVID-19: from pathogenic factors to potential therapeutic targets. <i>Acta Pharmacologica Sinica</i> , <b>2020</b> , 41, 1539-1546	8	65
71	Loss of myocardial ischemic postconditioning in adenosine A1 and bradykinin B2 receptors gene knockout mice. <i>Circulation</i> , <b>2008</b> , 118, S32-7	16.7	62
70	Chronic inhibition of phosphodiesterase 5 with tadalafil attenuates mitochondrial dysfunction in type 2 diabetic hearts: potential role of NO/SIRT1/PGC-1 $\beta$ signaling. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2014</b> , 306, H1558-68	5.2	61
69	eNOS phosphorylation: a pivotal molecular switch in vasodilation and cardioprotection?. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2007</b> , 42, 280-2	5.8	55
68	Evidence that NOS2 acts as a trigger and mediator of late preconditioning induced by acute systemic hypoxia. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2002</b> , 283, H5-12	5.2	50
67	Inosine and hypoxanthine as novel biomarkers for cardiac ischemia: from bench to point-of-care. <i>Experimental Biology and Medicine</i> , <b>2015</b> , 240, 821-31	3.7	48
66	Pivotal effects of phosphodiesterase inhibitors on myocyte contractility and viability in normal and ischemic hearts. <i>Acta Pharmacologica Sinica</i> , <b>2009</b> , 30, 1-24	8	45
65	Ischemic preconditioning in isolated perfused mouse heart: Reduction in infarct size without improvement of post-ischemic ventricular function. <i>Molecular and Cellular Biochemistry</i> , <b>1998</b> , 186, 69-77	4.2	43
64	Apnoea following normocapnic mechanical ventilation in awake mammals: a demonstration of control system inertia. <i>Journal of Physiology</i> , <b>1993</b> , 472, 749-68	3.9	43
63	Sirtuin 1 (SIRT1) activation mediates sildenafil induced delayed cardioprotection against ischemia-reperfusion injury in mice. <i>PLoS ONE</i> , <b>2014</b> , 9, e86977	3.7	43
62	Remote ischemic preconditioning for myocardial protection: update on mechanisms and clinical relevance. <i>Molecular and Cellular Biochemistry</i> , <b>2015</b> , 402, 41-9	4.2	42
61	Silencing heat shock factor 1 by small interfering RNA abrogates heat shock-induced cardioprotection against ischemia-reperfusion injury in mice. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2005</b> , 39, 681-9	5.8	39
60	Emerging new uses of phosphodiesterase-5 inhibitors in cardiovascular diseases. <i>Experimental and Clinical Cardiology</i> , <b>2011</b> , 16, e30-5		39
59	Myocardial preconditioning: Basic concepts and potential mechanisms. <i>Molecular and Cellular Biochemistry</i> , <b>1999</b> , 196, 3-12	4.2	37
58	Dietary inorganic nitrate alleviates doxorubicin cardiotoxicity: mechanisms and implications. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2012</b> , 26, 274-84	5	34
57	A volume-dependent apneic threshold during NREM sleep in the dog. <i>Journal of Applied Physiology</i> , <b>1994</b> , 76, 2315-25	3.7	32
56	Intermittent hypoxia training as non-pharmacologic therapy for cardiovascular diseases: Practical analysis on methods and equipment. <i>Experimental Biology and Medicine</i> , <b>2016</b> , 241, 1708-23	3.7	32
55	Postinfarction exercise training alleviates cardiac dysfunction and adverse remodeling via mitochondrial biogenesis and SIRT1/PGC-1 $\beta$ /PI3K/Akt signaling. <i>Journal of Cellular Physiology</i> , <b>2019</b> , 234, 23705-23718	7	31

54	Type 2 diabetic obese db/db mice are refractory to myocardial ischaemic post-conditioning in vivo: potential role for Hsp20, F1-ATPase and Echs1. <i>Journal of Cellular and Molecular Medicine</i> , <b>2012</b> , 16, 950-8	5.6	31
53	A simple and sensitive HPLC fluorescence method for determination of tadalafil in mouse plasma. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2010</b> , 878, 2891-2895	3.2	31
52	Whole body heat shock fails to protect mouse heart against ischemia/reperfusion injury: role of 72 kDa heat shock protein and antioxidant enzymes. <i>Journal of Molecular and Cellular Cardiology</i> , <b>1998</b> , 30, 2213-27	5.8	30
51	Intermittent hypoxia training in prediabetes patients: Beneficial effects on glucose homeostasis, hypoxia tolerance and gene expression. <i>Experimental Biology and Medicine</i> , <b>2017</b> , 242, 1542-1552	3.7	29
50	Myocardial ischemia/reperfusion injury in the inducible nitric oxide synthase knockout mice. <i>Life Sciences</i> , <b>1999</b> , 65, 935-45	6.8	28
49	Effects of rapid-eye-movement sleep on the apneic threshold in dogs. <i>Journal of Applied Physiology</i> , <b>1993</b> , 75, 1129-39	3.7	28
48	Mitogen-activated protein kinases mediate heat shock-induced delayed protection in mouse heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2001</b> , 281, H523-32	5.2	27
47	Ventilatory response to exercise after heart and lung denervation in humans. <i>Respiration Physiology</i> , <b>1993</b> , 92, 289-304		26
46	Chronic treatment with long acting phosphodiesterase-5 inhibitor tadalafil alters proteomic changes associated with cytoskeletal rearrangement and redox regulation in Type 2 diabetic hearts. <i>Basic Research in Cardiology</i> , <b>2012</b> , 107, 249	11.8	24
45	Intermittent Hypoxia-Hyperoxia Training Improves Cognitive Function and Decreases Circulating Biomarkers of Alzheimer's Disease in Patients with Mild Cognitive Impairment: A Pilot Study. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	23
44	Hypercholesterolemia enhances tolerance to lethal systemic hypoxia in middle-aged mice: possible role of VEGF downregulation in brain. <i>Molecular and Cellular Biochemistry</i> , <b>2006</b> , 291, 205-11	4.2	22
43	Beetroot juice reduces infarct size and improves cardiac function following ischemia-reperfusion injury: Possible involvement of endogenous H <sub>2</sub> S. <i>Experimental Biology and Medicine</i> , <b>2015</b> , 240, 669-81	3.7	21
42	Pivotal role of nitric oxide in delayed pharmacological preconditioning against myocardial infarction. <i>Toxicology</i> , <b>2000</b> , 155, 37-44	4.4	21
41	Identification of protein targets underlying dietary nitrate-induced protection against doxorubicin cardiotoxicity. <i>Journal of Cellular and Molecular Medicine</i> , <b>2011</b> , 15, 2512-24	5.6	20
40	Neural-mechanical coupling of breathing in REM sleep. <i>Journal of Applied Physiology</i> , <b>1997</b> , 83, 1923-32	3.7	20
39	Sildenafil-induced cardioprotection in rabbits. <i>Cardiovascular Research</i> , <b>2003</b> , 60, 700-1; author reply 702-3	9.9	17
38	Potential Therapeutic Strategies for Hypertension-Exacerbated Cardiotoxicity of Anticancer Drugs. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2016</b> , 2016, 8139861	6.7	17
37	Glycolipid RC-552 induces delayed preconditioning-like effect via iNOS-dependent pathway in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>1999</b> , 277, H2418-24	5.2	15

36	Sildenafil Potentiates the Therapeutic Efficacy of Docetaxel in Advanced Prostate Cancer by Stimulating NO-cGMP Signaling. <i>Clinical Cancer Research</i> , <b>2020</b> , 26, 5720-5734	12.9	15
35	Anti-ischemic effects of sildenafil, vardenafil and tadalafil in heart. <i>International Journal of Impotence Research</i> , <b>2007</b> , 19, 226-7	2.3	14
34	Effects of memory from vagal feedback on short-term potentiation of ventilation in conscious dogs. <i>Journal of Physiology</i> , <b>1993</b> , 462, 547-61	3.9	14
33	Intermittent hypoxia in childhood: the harmful consequences versus potential benefits of therapeutic uses. <i>Frontiers in Pediatrics</i> , <b>2015</b> , 3, 44	3.4	12
32	A rapid and simple chemiluminescence method for screening levels of inosine and hypoxanthine in non-traumatic chest pain patients. <i>Luminescence</i> , <b>2011</b> , 26, 65-75	2.5	12
31	Intermittent Hypoxia and Human Diseases <b>2012</b> ,		11
30	High-performance liquid chromatography (HPLC) determination of inosine, a potential biomarker for initial cardiac ischaemia, using isolated mouse hearts. <i>Biomarkers</i> , <b>2006</b> , 11, 449-59	2.6	11
29	Cardiovascular risks and toxicity - The Achilles heel of androgen deprivation therapy in prostate cancer patients. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , <b>2020</b> , 1874, 188383	11.2	9
28	Effects of salicylic acid on post-ischaemic ventricular function and purine efflux in isolated mouse hearts. <i>Biomarkers</i> , <b>2007</b> , 12, 623-34	2.6	8
27	Effects of REM sleep on the ventilatory response to airway occlusion in the dog. <i>Sleep</i> , <b>1994</b> , 17, 674-87	1.1	8
26	Role of Muscle-Specific Histone Methyltransferase (Smyd1) in Exercise-Induced Cardioprotection against Pathological Remodeling after Myocardial Infarction. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	8
25	Chronic inhibition of phosphodiesterase 5 with tadalafil affords cardioprotection in a mouse model of metabolic syndrome: role of nitric oxide. <i>Molecular and Cellular Biochemistry</i> , <b>2020</b> , 468, 47-58	4.2	7
24	Genetic deletion of fas receptors or Fas ligands does not reduce infarct size after acute global ischemia-reperfusion in isolated mouse heart. <i>Cell Biochemistry and Biophysics</i> , <b>2006</b> , 44, 111-7	3.2	7
23	Exercise does not protect the female heart: an unconvincing conclusion?. <i>Circulation Research</i> , <b>2002</b> , 91, e2	15.7	7
22	Natriuretic peptide family as diagnostic/prognostic biomarker and treatment modality in management of adult and geriatric patients with heart failure: remaining issues and challenges. <i>Journal of Geriatric Cardiology</i> , <b>2018</b> , 15, 540-546	1.7	7
21	PDE5 Inhibitor Tadalafil and Hydroxychloroquine Cotreatment Provides Synergistic Protection against Type 2 Diabetes and Myocardial Infarction in Mice. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2017</b> , 361, 29-38	4.7	5
20	Effects of intermittent hypoxia training on leukocyte pyruvate dehydrogenase kinase 1 (PDK-1) mRNA expression and blood insulin level in prediabetes patients. <i>European Journal of Applied Physiology</i> , <b>2019</b> , 119, 813-823	3.4	5
19	Regulation of leptin by hypoxia. <i>Journal of Applied Physiology</i> , <b>2008</b> , 105, 1687-90	3.7	5

18	The role of pulmonary CO <sub>2</sub> flow in the control of the phase I ventilatory response to exercise in humans. <i>European Journal of Applied Physiology and Occupational Physiology</i> , <b>1995</b> , 71, 287-94		4
17	Visnagin-a new protectant against doxorubicin cardiotoxicity? Inhibition of mitochondrial malate dehydrogenase 2 (MDH2) and beyond. <i>Annals of Translational Medicine</i> , <b>2016</b> , 4, 65	3-2	4
16	Individualized Intermittent Hypoxia Training: Principles and Practices <b>2012</b> , 281-289		4
15	Intermittent Hypoxia and Atherosclerosis <b>2012</b> , 29-45		3
14	Timing-Dependent Protection of Swimming Exercise against d-Galactose-Induced Aging-Like Impairments in Spatial Learning/Memory in Rats. <i>Brain Sciences</i> , <b>2019</b> , 9,	3-4	2
13	Effects of acute hypoxia on ventilatory response at the onset of submaximal exercise. <i>The Japanese Journal of Physiology</i> , <b>1990</b> , 40, 417-22		2
12	Role of phosphodiesterase 1 in the pathophysiology of diseases and potential therapeutic opportunities. <i>Pharmacology &amp; Therapeutics</i> , <b>2021</b> , 226, 107858	13-9	2
11	PDE5 inhibitor sildenafil attenuates cardiac microRNA 214 upregulation and pro-apoptotic signaling after chronic alcohol ingestion in mice. <i>Molecular and Cellular Biochemistry</i> , <b>2020</b> , 471, 189-201	4-2	1
10	Utility of cardiac biomarkers in sports medicine: Focusing on troponin, natriuretic peptides, and hypoxanthine. <i>Sports Medicine and Health Science</i> , <b>2020</b> , 2, 65-71	4-5	1
9	Nonurologic applications of phosphodiesterase type 5 inhibitors. <i>Current Sexual Health Reports</i> , <b>2007</b> , 4, 64-70	1-2	1
8	Myocardial preconditioning: Basic concepts and potential mechanisms <b>1999</b> , 3-12		1
7	Phosphodiesterase-5 Inhibition with Tadalafil Attenuates Left Ventricular Dysfunction and Cardiomyocyte Apoptosis in Doxorubicin-induced Cardiotoxicity in Mice. <i>FASEB Journal</i> , <b>2010</b> , 24, 785-10 <sup>0.9</sup>		1
6	Beet Juice as Nutraceutical Remedy for Alleviating Pulmonary Arterial Hypertension: Searching for Optimal Treatment Timing and Nitrate Dose. <i>American Journal of Hypertension</i> , <b>2019</b> , 32, 135-138	2-3	1
5	Myocardial Protection by Monophosphoryl Lipid A: Potential Mechanisms. <i>Cardiovascular Drug Reviews</i> , <b>2006</b> , 17, 265-280		
4	PDE5 Inhibition with Sildenafil Blocks Induction of Carboxylesteras3 and Reduces Cell Necrosis and Autophagy in Acute Alcohol-Induced Injury in Heart. <i>FASEB Journal</i> , <b>2015</b> , 29, 896.14	0-9	
3	Acute Alcohol Treatment and Cardiac Dysfunction in Obese Diabetic Mice: Role of PDE5 and MicroRNA-21. <i>FASEB Journal</i> , <b>2015</b> , 29, 1020.9	0-9	
2	Rapamycin (Sirolimus) Induced protection against ischemia-reperfusion injury is mediated through AMPK, Akt and JAK/STAT pathways in mouse heart. <i>FASEB Journal</i> , <b>2010</b> , 24, 601.6	0-9	
1	Role of Chitinase-3-like Protein 1 in Cardioprotection and Angiogenesis by Post-Infarction Exercise Training. <i>Biomedicines</i> , <b>2022</b> , 10, 1028	4-8	

