Lei Xi

List of Publications by Year
in descending order

99 papers	4,476 citations	94269 37 h-index	110170 64 g-index
100 all docs	100 docs citations	100 times ranked	5173 citing authors

#	Article	IF	Citations
1	Phosphodiesterase-5 Inhibitor Sildenafil Preconditions Adult Cardiac Myocytes against Necrosis and Apoptosis. Journal of Biological Chemistry, 2005, 280, 12944-12955.	1.6	304
2	Sildenafil Induces Delayed Preconditioning Through Inducible Nitric Oxide Synthaseâ€"Dependent Pathway in Mouse Heart. Circulation Research, 2003, 92, 595-597.	2.0	225
3	PDE5 inhibitors as therapeutics for heart disease, diabetes and cancer. , 2015, 147, 12-21.		187
4	Pharmacological preconditioning with sildenafil: Basic mechanisms and clinical implications. Vascular Pharmacology, 2005, 42, 219-232.	1.0	184
5	Rapamycin confers preconditioning-like protection against ischemiaâ€"reperfusion injury in isolated mouse heart and cardiomyocytes. Journal of Molecular and Cellular Cardiology, 2006, 41, 256-264.	0.9	181
6	Protein Kinase G-dependent Cardioprotective Mechanism of Phosphodiesterase-5 Inhibition Involves Phosphorylation of ERK and GSK3Î². Journal of Biological Chemistry, 2008, 283, 29572-29585.	1.6	175
7	Hypoxia, HIF-1Î±, and COVID-19: from pathogenic factors to potential therapeutic targets. Acta Pharmacologica Sinica, 2020, 41, 1539-1546.	2.8	154
8	Cardioprotection with phosphodiesterase-5 inhibitionâ€"a novel preconditioning strategy. Journal of Molecular and Cellular Cardiology, 2004, 36, 165-173.	0.9	143
9	Inducible Nitric Oxide Synthase Mediates Delayed Myocardial Protection Induced by Activation of Adenosine A₁Receptors. Circulation, 2000, 102, 902-907.	1.6	141
10	Essential Role of Inducible Nitric Oxide Synthase in Monophosphoryl Lipid Aâ€"Induced Late Cardioprotection. Circulation, 1999, 99, 2157-2163.	1.6	134
11	Mammalian Target of Rapamycin (mTOR) Inhibition with Rapamycin Improves Cardiac Function in Type 2 Diabetic Mice. Journal of Biological Chemistry, 2014, 289, 4145-4160.	1.6	130
12	Hypoxia inducible factor 1 (HIF-1) and cardioprotection. Acta Pharmacologica Sinica, 2010, 31, 1085-1094.	2.8	129
13	ERK phosphorylation mediates sildenafil-induced myocardial protection against ischemia-reperfusion injury in mice. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H1236-H1243.	1.5	121
14	Cobalt chloride induces delayed cardiac preconditioning in mice through selective activation of HIF-1Î± and AP-1 and iNOS signaling. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H2369-H2375.	1.5	118
15	Long-Acting Phosphodiesterase-5 Inhibitor Tadalafil Attenuates Doxorubicin-Induced Cardiomyopathy without Interfering with Chemotherapeutic Effect. Journal of Pharmacology and Experimental Therapeutics, 2010, 334, 1023-1030.	1.3	93
16	Dietary Nitrate Supplementation Protects Against Doxorubicin-Induced Cardiomyopathy by Improving Mitochondrial Function. Journal of the American College of Cardiology, 2011, 57, 2181-2189.	1.2	82
17	Chronic inhibition of phosphodiesterase 5 with tadalafil attenuates mitochondrial dysfunction in type 2 diabetic hearts: potential role of NO/SIRT1/PGC-1Î± signaling. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 306, H1558-H1568.	1.5	76
18	Opening of Ca2+-activated K+ channels triggers early and delayed preconditioning against I/R injury independent of NOS in mice. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H2070-H2077.	1.5	73

#	Article	IF	Citations
19	Essential role of mitochondrial Ca2+-activated and ATP-sensitive K+ channels in sildenafil-induced late cardioprotection. Journal of Molecular and Cellular Cardiology, 2008, 44, 105-113.	0.9	71
20	Inosine and hypoxanthine as novel biomarkers for cardiac ischemia: From bench to point-of-care. Experimental Biology and Medicine, 2015, 240, 821-831.	1.1	70
21	Loss of Myocardial Ischemic Postconditioning in Adenosine A ₁ and Bradykinin B ₂ Receptors Gene Knockout Mice. Circulation, 2008, 118, S32-7.	1.6	65
22	eNOS phosphorylation: A pivotal molecular switch in vasodilation and cardioprotection?. Journal of Molecular and Cellular Cardiology, 2007, 42, 280-282.	0.9	64
23	Intermittent Hypoxia-Hyperoxia Training Improves Cognitive Function and Decreases Circulating Biomarkers of Alzheimerâ€™s Disease in Patients with Mild Cognitive Impairment: A Pilot Study. International Journal of Molecular Sciences, 2019, 20, 5405.	1.8	63
24	Evidence that NOS2 acts as a trigger and mediator of late preconditioning induced by acute systemic hypoxia. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H5-H12.	1.5	62
25	Postinfarction exercise training alleviates cardiac dysfunction and adverse remodeling via mitochondrial biogenesis and SIRT1/PGCâ€1Î±/PI3K/Akt signaling. Journal of Cellular Physiology, 2019, 234, 23705-23718.	2.0	59
26	Intermittent hypoxia training as non-pharmacologic therapy for cardiovascular diseases: Practical analysis on methods and equipment. Experimental Biology and Medicine, 2016, 241, 1708-1723.	1.1	57
27	Apnoea following normocapnic mechanical ventilation in awake mammals: a demonstration of control system inertia.. Journal of Physiology, 1993, 472, 749-768.	1.3	54
28	Sirtuin 1 (SIRT1) Activation Mediates Sildenafil Induced Delayed Cardioprotection against Ischemia-Reperfusion Injury in Mice. PLoS ONE, 2014, 9, e86977.	1.1	51
29	Pivotal effects of phosphodiesterase inhibitors on myocyte contractility and viability in normal and ischemic hearts. Acta Pharmacologica Sinica, 2009, 30, 1-24.	2.8	49
30	Remote ischemic preconditioning for myocardial protection: update on mechanisms and clinical relevance. Molecular and Cellular Biochemistry, 2015, 402, 41-49.	1.4	49
31	Intermittent hypoxia training in prediabetes patients: Beneficial effects on glucose homeostasis, hypoxia tolerance and gene expression. Experimental Biology and Medicine, 2017, 242, 1542-1552.	1.1	47
32	A simple and sensitive HPLC fluorescence method for determination of tadalafil in mouse plasma. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2010, 878, 2891-2895.	1.2	44
33	Title is missing!. Molecular and Cellular Biochemistry, 1998, 186, 69-77.	1.4	43
34	Emerging new uses of phosphodiesterase-5 inhibitors in cardiovascular diseases. Experimental and Clinical Cardiology, 2011, 16, e30-5.	1.3	40
35	A volume-dependent apneic threshold during NREM sleep in the dog. Journal of Applied Physiology, 1994, 76, 2315-2325.	1.2	39
36	Silencing heat shock factor 1 by small interfering RNA abrogates heat shock-induced cardioprotection against ischemiaâ€“reperfusion injury in mice. Journal of Molecular and Cellular Cardiology, 2005, 39, 681-689.	0.9	39

#	Article	IF	Citations
37	Dietary inorganic nitrate alleviates doxorubicin cardiotoxicity: Mechanisms and implications. Nitric Oxide - Biology and Chemistry, 2012, 26, 274-284.	1.2	39
38	Mitogen-activated protein kinases mediate heat shock-induced delayed protection in mouse heart. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H523-H532.	1.5	38
39	Myocardial preconditioning: Basic concepts and potential mechanisms. Molecular and Cellular Biochemistry, 1999, 196, 3-12.	1.4	37
40	Effects of rapid-eye-movement sleep on the apneic threshold in dogs. Journal of Applied Physiology, 1993, 75, 1129-1139.	1.2	34
41	Type 2 diabetic obese <i>db/db</i> mice are refractory to myocardial ischaemic postâ€conditioning <i>in vivo</i>: potential role for Hsp20, F1â€ATPase Î´ and Echs1. Journal of Cellular and Molecular Medicine, 2012, 16, 950-958.	1.6	33
42	Ventilatory response to exercise after heart and lung denervation in humans. Respiration Physiology, 1993, 92, 289-304.	2.8	32
43	Myocardial ischemia/reperfusion injury in the inducible nitric oxide synthase knockout mice. Life Sciences, 1999, 65, 935-945.	2.0	32
44	Whole Body Heat Shock Fails To Protect Mouse Heart Against Ischemia/Reperfusion Injury: Role of 72 kDa Heat Shock Protein and Antioxidant Enzymes. Journal of Molecular and Cellular Cardiology, 1998, 30, 2213-2227.	0.9	31
45	Chronic treatment with long acting phosphodiesterase-5 inhibitor tadalafil alters proteomic changes associated with cytoskeletal rearrangement and redox regulation in Type 2 diabetic hearts. Basic Research in Cardiology, 2012, 107, 249.	2.5	29
46	Potential Therapeutic Strategies for Hypertension-Exacerbated Cardiotoxicity of Anticancer Drugs. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-9.	1.9	28
47	Sildenafil Potentiates the Therapeutic Efficacy of Docetaxel in Advanced Prostate Cancer by Stimulating NO-cGMP Signaling. Clinical Cancer Research, 2020, 26, 5720-5734.	3.2	28
48	Pivotal role of nitric oxide in delayed pharmacological preconditioning against myocardial infarction. Toxicology, 2000, 155, 37-44.	2.0	26
49	Glycolipid RC-552 induces delayed preconditioning-like effect via iNOS-dependent pathway in mice. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 277, H2418-H2424.	1.5	25
50	Beetroot juice reduces infarct size and improves cardiac function following ischemiaâ€"reperfusion injury: Possible involvement of endogenous H₂S. Experimental Biology and Medicine, 2015, 240, 669-681.	1.1	24
51	Hypercholesterolemia Enhances Tolerance to Lethal Systemic Hypoxia in Middle-Aged Mice: Possible Role of VEGF Downregulation in Brain. Molecular and Cellular Biochemistry, 2006, 291, 205-211.	1.4	23
52	Cardiovascular risks and toxicity - The Achilles heel of androgen deprivation therapy in prostate cancer patients. Biochimica Et Biophysica Acta: Reviews on Cancer, 2020, 1874, 188383.	3.3	23
53	Identification of protein targets underlying dietary nitrate-induced protection against doxorubicin cardiotoxicity. Journal of Cellular and Molecular Medicine, 2011, 15, 2512-2524.	1.6	22
54	Neural-mechanical coupling of breathing in REM sleep. Journal of Applied Physiology, 1997, 83, 1923-1932.	1.2	21

#	Article	IF	Citations
55	Effects of memory from vagal feedback on shortâ€term potentiation of ventilation in conscious dogs.. Journal of Physiology, 1993, 462, 547-561.	1.3	19
56	Intermittent Hypoxia in Childhood: The Harmful Consequences Versus Potential Benefits of Therapeutic Uses. Frontiers in Pediatrics, 2015, 3, 44.	0.9	19
57	Sildenafil-induced cardioprotection in rabbits. Cardiovascular Research, 2003, 60, 700-701.	1.8	18
58	Role of phosphodiesterase 1 in the pathophysiology of diseases and potential therapeutic opportunities. , 2021, 226, 107858.		18
59	Myocardial preconditioning: Basic concepts and potential mechanisms. , 1999, , 3-12.		18
60	Role of Muscle-Specific Histone Methyltransferase (Smyd1) in Exercise-Induced Cardioprotection against Pathological Remodeling after Myocardial Infarction. International Journal of Molecular Sciences, 2020, 21, 7010.	1.8	17
61	Intermittent Hypoxia and Human Diseases. , 2012, , .		16
62	Role of Tissue and Systemic Hypoxia in Obesity and Type 2 Diabetes. Journal of Diabetes Research, 2016, 2016, 1-3.	1.0	16
63	A rapid and simple chemiluminescence method for screening levels of inosine and hypoxanthine in nonâ€traumatic chest pain patients. Luminescence, 2011, 26, 65-75.	1.5	15
64	Effects of intermittent hypoxia training on leukocyte pyruvate dehydrogenase kinase 1 (PDK-1) mRNA expression and blood insulin level in prediabetes patients. European Journal of Applied Physiology, 2019, 119, 813-823.	1.2	15
65	Anti-ischemic effects of sildenafil, vardenafil and tadalafil in heart. International Journal of Impotence Research, 2007, 19, 226-227.	1.0	14
66	High-performance liquid chromatography (HPLC) determination of inosine, a potential biomarker for initial cardiac ischaemia, using isolated mouse hearts. Biomarkers, 2006, 11, 449-459.	0.9	12
67	PDE5 Inhibitor Tadalafil and Hydroxychloroquine Cotreatment Provides Synergistic Protection against Type 2 Diabetes and Myocardial Infarction in Mice. Journal of Pharmacology and Experimental Therapeutics, 2017, 361, 29-38.	1.3	12
68	Chronic inhibition of phosphodiesterase 5 with tadalafil affords cardioprotection in a mouse model of metabolic syndrome: role of nitric oxide. Molecular and Cellular Biochemistry, 2020, 468, 47-58.	1.4	12
69	Natriuretic peptide family as diagnostic/prognostic biomarker and treatment modality in management of adult and geriatric patients with heart failure: remaining issues and challenges. Journal of Geriatric Cardiology, 2018, 15, 540-546.	0.2	11
70	Exercise Does Not Protect the Female Heart: An Unconvincing Conclusion?. Circulation Research, 2002, 91, e2.	2.0	10
71	Genetic Deletion of Fas Receptors or Fas Ligands Does Not Reduce Infarct Size After Acute Global Ischemia-Reperfusion in Isolated Mouse Heart. Cell Biochemistry and Biophysics, 2006, 44, 111-118.	0.9	10
72	Effects of REM Sleep on the Ventilatory Response to Airway Occlusion in the Dog. Sleep, 1994, 17, 674-687.	0.6	9

#	Article	IF	Citations
73	Effects of salicylic acid on post-ischaemic ventricular function and purine efflux in isolated mouse hearts. Biomarkers, 2007, 12, 623-634.	0.9	9
74	Timing-Dependent Protection of Swimming Exercise against d-Galactose-Induced Aging-Like Impairments in Spatial Learning/Memory in Rats. Brain Sciences, 2019, 9, 236.	1.1	9
75	Response of Circulating Inflammatory Markers to Intermittent Hypoxia-Hyperoxia Training in Healthy Elderly People and Patients with Mild Cognitive Impairment. Life, 2022, 12, 432.	1.1	9
76	Utility of cardiac biomarkers in sports medicine: Focusing on troponin, natriuretic peptides, and hypoxanthine. Sports Medicine and Health Science, 2020, 2, 65-71.	0.7	6
77	The role of pulmonary CO2 flow in the control of the phase i ventilatory response to exercise in humans. European Journal of Applied Physiology and Occupational Physiology, 1995, 71, 287-294.	1.2	5
78	Commentary on Viewpoint: Regulation of leptin by hypoxia. Journal of Applied Physiology, 2008, 105, 1687-1690.	1.2	5
79	Individualized Intermittent Hypoxia Training: Principles and Practices. , 2012, , 281-289.		5
80	Postconditioning of ischemic heart by intermittent ventricular pacing at the beginning of reperfusion: novel mechanisms and potential utilities in interventional cardiology settings. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 310, H1-H3.	1.5	4
81	Circulating biomarkers for cardiovascular diseases: the beats never stop. Acta Pharmacologica Sinica, 2018, 39, 1065-1067.	2.8	4
82	Visnagin-a new protectant against doxorubicin cardiotoxicity? Inhibition of mitochondrial malate dehydrogenase 2 (MDH2) and beyond. Annals of Translational Medicine, 2016, 4, 65.	0.7	4
83	Intermittent Hypoxia and Atherosclerosis. , 2012, , 29-45.		3
84	Nonurologic applications of phosphodiesterase type 5 inhibitors. Current Sexual Health Reports, 2007, 4, 64-70.	0.4	2
85	PDE5 inhibitor sildenafil attenuates cardiac microRNA 214 upregulation and pro-apoptotic signaling after chronic alcohol ingestion in mice. Molecular and Cellular Biochemistry, 2020, 471, 189-201.	1.4	2
86	Effects of acute hypoxia on ventilatory response at the onset of submaximal exercise.. The Japanese Journal of Physiology, 1990, 40, 417-422.	0.9	2
87	Myocardial Protection by Monophosphoryl Lipid A: Potential Mechanisms. Cardiovascular Drug Reviews, 1999, 17, 265-280.	4.4	1
88	Beet Juice as Nutraceutical Remedy for Alleviating Pulmonary Arterial Hypertension: Searching for Optimal Treatment Timing and Nitrate Dose. American Journal of Hypertension, 2019, 32, 135-138.	1.0	1
89	Phosphodiesteraseâ€5 Inhibition with Tadalafil Attenuates Left Ventricular Dysfunction and Cardiomyocyte Apoptosis in Doxorubicinâ€induced Cardiotoxicity in Mice. FASEB Journal, 2010, 24, 785.10.	0.2	1
90	Abstract 10246: Hydroxychloroquine Pretreatment Reduces Myocardial Ischemia-Reperfusion Injury: Role of Cardiac Extracellular-Signal-Regulated Kinase 5 and Autophagy. Circulation, 2015, 132, .	1.6	1

#	Article	IF	Citations
91	Role of Chitinase-3-like Protein 1 in Cardioprotection and Angiogenesis by Post-Infarction Exercise Training. Biomedicines, 2022, 10, 1028.	1.4	1
92	CARD9: key player or bystander in cardiac remodeling under hypertension?. Hypertension Research, 2020, 43, 1454-1456.	1.5	0
93	Abstract 1568: Loss of Ischemic Postconditioning in the Mouse Hearts Lacking Adenosine A ₁ or Bradykinin B ₂ Receptors. Circulation, 2007, 116, .	1.6	0
94	Abstract 2893: Enhanced Myocardial Ischemic Tolerance in Hypercholesterolemic APOE Knockout Mice is Associated with Increased Expression of Caveolin 1 and Metallothionein. Circulation, 2008, 118, .	1.6	0
95	Abstract 2894: Essential Role of ERK 1/2 in Sildenafil-Induced Early and Delayed Cardioprotection in Mice. Circulation, 2008, 118, .	1.6	0
96	Rapamycin (Sirolimus)â€“induced protection against ischemiaâ€•reperfusion injury is mediated through AMPK, Akt and JAK/STAT pathways in mouse heart. FASEB Journal, 2010, 24, 601.6.	0.2	0
97	PDE5 Inhibition with Sildenafil Blocks Induction of Carboxylesteras3 and Reduces Cell Necrosis and Autophagy in Acute Alcoholâ€•Induced Injury in Heart. FASEB Journal, 2015, 29, 896.14.	0.2	0
98	Acute Alcohol Treatment and Cardiac Dysfunction in Obese Diabetic Mice: Role of PDE5 and MicroRNAâ€•21. FASEB Journal, 2015, 29, 1020.9.	0.2	0
99	Abstract 17414: Combination Therapy of Sildenafil and Rapamycin Alleviates Doxorubicin Induced Cardiotoxicity With Improvement of Skeletal Muscle Function. Circulation, 2020, 142, .	1.6	0