

Nina C Weber

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.

67
papers

1,446
citations

20
h-index

36
g-index

70
ext. papers

1,862
ext. citations

4.7
avg, IF

4.38
L-index

#	Paper	IF	Citations
67	Class effects of SGLT2 inhibitors in mouse cardiomyocytes and hearts: inhibition of Na/H exchanger, lowering of cytosolic Na and vasodilation. <i>Diabetologia</i> , 2018 , 61, 722-726	10.3	241
66	The noble gas xenon induces pharmacological preconditioning in the rat heart in vivo via induction of PKC-epsilon and p38 MAPK. <i>British Journal of Pharmacology</i> , 2005 , 144, 123-32	8.6	118
65	Direct Cardiac Actions of Sodium Glucose Cotransporter 2 Inhibitors Target Pathogenic Mechanisms Underlying Heart Failure in Diabetic Patients. <i>Frontiers in Physiology</i> , 2018 , 9, 1575	4.6	76
64	Helium-induced preconditioning in young and old rat heart: impact of mitochondrial Ca(2+)-sensitive potassium channel activation. <i>Anesthesiology</i> , 2008 , 109, 830-6	4.3	71
63	Empagliflozin and Dapagliflozin Reduce ROS Generation and Restore NO Bioavailability in Tumor Necrosis Factor β -stimulated Human Coronary Arterial Endothelial Cells. <i>Cellular Physiology and Biochemistry</i> , 2019 , 53, 865-886	3.9	69
62	Impact of preconditioning protocol on anesthetic-induced cardioprotection in patients having coronary artery bypass surgery. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2009 , 137, 1436-42, 1442.e1-2	1.5	60
61	Delayed ischaemic contracture onset by empagliflozin associates with NHE1 inhibition and is dependent on insulin in isolated mouse hearts. <i>Cardiovascular Research</i> , 2019 , 115, 1533-1545	9.9	48
60	Nlrp3 plays no role in acute cardiac infarction due to low cardiac expression. <i>International Journal of Cardiology</i> , 2014 , 177, 41-3	3.2	42
59	Cellular effects of helium in different organs. <i>Anesthesiology</i> , 2010 , 112, 1503-10	4.3	38
58	Xenon induces late cardiac preconditioning in vivo: a role for cyclooxygenase 2?. <i>Anesthesia and Analgesia</i> , 2008 , 107, 1807-13	3.9	37
57	Hydrogen sulfide donor NaHS reduces organ injury in a rat model of pneumococcal pneumosepsis, associated with improved bio-energetic status. <i>PLoS ONE</i> , 2013 , 8, e63497	3.7	35
56	Age-related loss of cardiac preconditioning: impact of protein kinase A. <i>Experimental Gerontology</i> , 2012 , 47, 116-21	4.5	33
55	Sevoflurane-induced preconditioning: impact of protocol and aprotinin administration on infarct size and endothelial nitric-oxide synthase phosphorylation in the rat heart in vivo. <i>Anesthesiology</i> , 2010 , 113, 1289-98	4.3	33
54	Hypoxia-inducible factor 1 and related gene products in anaesthetic-induced preconditioning. <i>European Journal of Anaesthesiology</i> , 2009 , 26, 201-6	2.3	30
53	Helium-induced cardioprotection of healthy and hypertensive rat myocardium in vivo. <i>European Journal of Pharmacology</i> , 2012 , 684, 125-31	5.3	27
52	Effect of Xenon Anesthesia Compared to Sevoflurane and Total Intravenous Anesthesia for Coronary Artery Bypass Graft Surgery on Postoperative Cardiac Troponin Release: An International, Multicenter, Phase 3, Single-blinded, Randomized Noninferiority Trial. <i>Anesthesiology</i> , 2017 , 127, 918-933	4.3	27
51	Intermittent pharmacologic pretreatment by xenon, isoflurane, nitrous oxide, and the opioid morphine prevents tumor necrosis factor alpha-induced adhesion molecule expression in human umbilical vein endothelial cells. <i>Anesthesiology</i> , 2008 , 108, 199-207	4.3	24

50	Helium induces preconditioning in human endothelium in vivo. <i>Anesthesiology</i> , 2013 , 118, 95-104	4.3	23
49	Postconditioning by xenon and hypothermia in the rat heart in vivo. <i>European Journal of Anaesthesiology</i> , 2010 , 27, 734-9	2.3	21
48	Plasma from human volunteers subjected to remote ischemic preconditioning protects human endothelial cells from hypoxia-induced cell damage. <i>Basic Research in Cardiology</i> , 2015 , 110, 17	11.8	20
47	Noble gases as cardioprotectants - translatability and mechanism. <i>British Journal of Pharmacology</i> , 2015 , 172, 2062-73	8.6	20
46	Morphine induces preconditioning via activation of mitochondrial K(Ca) channels. <i>Canadian Journal of Anaesthesia</i> , 2010 , 57, 767-73	3	19
45	The regulation of mitochondrial respiration by opening of mKCa channels is age-dependent. <i>European Journal of Pharmacology</i> , 2008 , 578, 108-13	5.3	16
44	Novel Anti-inflammatory Effects of Canagliflozin Involving Hexokinase II in Lipopolysaccharide-Stimulated Human Coronary Artery Endothelial Cells. <i>Cardiovascular Drugs and Therapy</i> , 2021 , 35, 1083-1094	3.9	16
43	Effect of remote ischemic conditioning on atrial fibrillation and outcome after coronary artery bypass grafting (RICO-trial). <i>BMC Anesthesiology</i> , 2011 , 11, 11	2.4	15
42	Hypoxia induces late preconditioning in the rat heart in vivo. <i>Anesthesiology</i> , 2010 , 113, 1351-60	4.3	15
41	Helium postconditioning regulates expression of caveolin-1 and -3 and induces RISK pathway activation after ischaemia/reperfusion in cardiac tissue of rats. <i>European Journal of Pharmacology</i> , 2016 , 791, 718-725	5.3	13
40	Reducing mitochondrial bound hexokinase II mediates transition from non-injurious into injurious ischemia/reperfusion of the intact heart. <i>Journal of Physiology and Biochemistry</i> , 2016 , 73, 323-333	5	13
39	Reduction of cardiac cell death after helium postconditioning in rats: transcriptional analysis of cell death and survival pathways. <i>Molecular Medicine</i> , 2015 , 20, 516-26	6.2	13
38	The effect of standard chow and reduced hexokinase II on growth, cardiac and skeletal muscle hexokinase and low-flow cardiac ischaemia-reperfusion injury. <i>Laboratory Animals</i> , 2011 , 45, 160-6	2.6	13
37	Blockade of anaesthetic-induced preconditioning in the hyperglycaemic myocardium: the regulation of different mitogen-activated protein kinases. <i>European Journal of Pharmacology</i> , 2008 , 592, 48-54	5.3	13
36	Empagliflozin Decreases Lactate Generation in an NHE-1 Dependent Fashion and Increases Ketoglutarate Synthesis From Palmitate in Type II Diabetic Mouse Hearts. <i>Frontiers in Cardiovascular Medicine</i> , 2020 , 7, 592233	5.4	12
35	Remote Ischemic Preconditioning Does Not Affect the Release of Humoral Factors in Propofol-Anesthetized Cardiac Surgery Patients: A Secondary Analysis of the RIPHeart Study. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	11
34	Sodium Glucose Co-Transporter 2 Inhibitors Ameliorate Endothelium Barrier Dysfunction Induced by Cyclic Stretch through Inhibition of Reactive Oxygen Species. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	11
33	A randomized trial of remote ischemic preconditioning and control treatment for cardioprotection in sevoflurane-anesthetized CABG patients. <i>BMC Anesthesiology</i> , 2017 , 17, 51	2.4	10

32	Effects of helium on inflammatory and oxidative stress-induced endothelial cell damage. <i>Experimental Cell Research</i> , 2015 , 337, 37-43	4.2	10
31	Cardioprotective efficacy depends critically on pharmacological dose, duration of ischaemia, health status of animals and choice of anaesthetic regimen: a case study with folic acid. <i>Journal of Translational Medicine</i> , 2014 , 12, 325	8.5	10
30	Targets Involved in Cardioprotection by the Non-Anesthetic Noble Gas Helium. <i>Current Drug Targets</i> , 2015 , 16, 786-92	3	10
29	Helium-Induced Changes in Circulating Caveolin in Mice Suggest a Novel Mechanism of Cardiac Protection. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	9
28	Perioperative Cardioprotection: General Mechanisms and Pharmacological Approaches. <i>Anesthesia and Analgesia</i> , 2020 , 131, 1765-1780	3.9	9
27	Role of Endogenous Opioid System in Ischemic-Induced Late Preconditioning. <i>PLoS ONE</i> , 2015 , 10, e0134283	3.7	9
26	Gaseous mediators: an updated review on the effects of helium beyond blowing up balloons. <i>Intensive Care Medicine Experimental</i> , 2019 , 7, 73	3.7	9
25	Effect of helium pre- or postconditioning on signal transduction kinases in patients undergoing coronary artery bypass graft surgery. <i>Journal of Translational Medicine</i> , 2016 , 14, 294	8.5	9
24	Empagliflozin reduces oxidative stress through inhibition of the novel inflammation/NHE/[Na]/ROS-pathway in human endothelial cells.. <i>Biomedicine and Pharmacotherapy</i> , 2021 , 146, 112515	7.5	8
23	Helium alters the cytoskeleton and decreases permeability in endothelial cells cultured in vitro through a pathway involving Caveolin-1. <i>Scientific Reports</i> , 2018 , 8, 4768	4.9	7
22	In vivo desflurane preconditioning evokes dynamic alterations of metabolic proteins in the heart--proteomic insights strengthen the link between bioenergetics and cardioprotection. <i>Cellular Physiology and Biochemistry</i> , 2014 , 33, 967-81	3.9	6
21	Pharmacological Conditioning of the Heart: An Update on Experimental Developments and Clinical Implications. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	6
20	Assessment of intensive care unit-acquired weakness in young and old mice: An E. coli septic peritonitis model. <i>Muscle and Nerve</i> , 2016 , 53, 127-33	3.4	6
19	Cyclophilin D ablation is associated with increased end-ischemic mitochondrial hexokinase activity. <i>Scientific Reports</i> , 2017 , 7, 12749	4.9	5
18	Plasma from Volunteers Breathing Helium Reduces Hypoxia-Induced Cell Damage in Human Endothelial Cells-Mechanisms of Remote Protection Against Hypoxia by Helium. <i>Cardiovascular Drugs and Therapy</i> , 2019 , 33, 297-306	3.9	5
17	Prolonged helium postconditioning protocols during early reperfusion do not induce cardioprotection in the rat heart in vivo: role of inflammatory cytokines. <i>Journal of Immunology Research</i> , 2015 , 2015, 216798	4.5	5
16	Physiological levels of glutamine prevent morphine-induced preconditioning in the isolated rat heart. <i>European Journal of Pharmacology</i> , 2008 , 595, 58-64	5.3	5
15	NLRX1 Deletion Increases Ischemia-Reperfusion Damage and Activates Glucose Metabolism in Mouse Heart. <i>Frontiers in Immunology</i> , 2020 , 11, 591815	8.4	5

14	Direct cardiac effects of SGLT2 inhibitors.. <i>Cardiovascular Diabetology</i> , 2022 , 21, 45	8.7	5
13	Effects of helium and air inhalation on the innate and early adaptive immune system in healthy volunteers ex vivo. <i>Journal of Translational Medicine</i> , 2012 , 10, 201	8.5	4
12	Effects of Hyperglycemia and Diabetes Mellitus on Coagulation and Hemostasis. <i>Journal of Clinical Medicine</i> , 2021 , 10,	5.1	4
11	Cardiac mechanisms of the beneficial effects of SGLT2 inhibitors in heart failure: Evidence for potential off-target effects.. <i>Journal of Molecular and Cellular Cardiology</i> , 2022 , 167, 17-31	5.8	4
10	Red-blood-cell manufacturing methods and storage solutions differentially induce pulmonary cell activation. <i>Vox Sanguinis</i> , 2020 , 115, 395-404	3.1	2
9	Molecular biology in cardiovascular anaesthesia. <i>Current Opinion in Anaesthesiology</i> , 2008 , 21, 71-7	2.9	2
8	Helium inhalation induces caveolin secretion to blood. <i>FASEB Journal</i> , 2013 , 27, 1089.3	0.9	2
7	Administration of SGLT2 inhibitor empagliflozin against TNF- α -induced endothelial dysfunction in human venous and arterial endothelial cells.. <i>FASEB Journal</i> , 2018 , 32, 569.4	0.9	1
6	Intravenous S-ketamine does not inhibit alveolar fluid clearance in a septic rat model. <i>PLoS ONE</i> , 2014 , 9, e112622	3.7	1
5	Transcriptional regulation of cardiac cell death and survival signaling by helium postconditioning in a rat model of regional cardiac ischemia/reperfusion. <i>FASEB Journal</i> , 2013 , 27, lb623	0.9	1
4	The Redox Modulating Sonlicromanol Active Metabolite KH176m and the Antioxidant MPG Protect Against Short-Duration Cardiac Ischemia-Reperfusion Injury. <i>Cardiovascular Drugs and Therapy</i> , 2021 , 35, 745-758	3.9	1
3	In reply. <i>Anesthesiology</i> , 2013 , 119, 488-9	4.3	
2	Empagliflozin effects on ischemic contracture and I/R injury in isolated mouse hearts perfused with or without insulin. <i>FASEB Journal</i> , 2018 , 32, lb292	0.9	
1	Effects of noble gas conditioning on Caveolin expression in the rat heart in vivo. <i>FASEB Journal</i> , 2012 , 26, 1114.17	0.9	