Shampa Chatterjee

List of Publications by Year
in descending order

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101 papers	3,460 citations	126708 33 h-index	143772 57 g-index
108 all docs	108 docs citations	108 times ranked	4172 citing authors

#	Article	IF	Citations
1	Production of reactive oxygen species by spermatozoa undergoing cooling, freezing, and thawing. Molecular Reproduction and Development, 2001, 59, 451-458.	1.0	420
2	Red blood cell-hitchhiking boosts delivery of nanocarriers to chosen organs by orders of magnitude. Nature Communications, 2018, 9, 2684.	5.8	247
3	Cryopreservation alters membrane sulfhydryl status of bull spermatozoa: Protection by oxidized glutathione. Molecular Reproduction and Development, 2001, 60, 498-506.	1.0	143
4	Membrane depolarization is the trigger for PI3K/Akt activation and leads to the generation of ROS. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H105-H114.	1.5	122
5	Endothelial Mechanotransduction, Redox Signaling and the Regulation of Vascular Inflammatory Pathways. Frontiers in Physiology, 2018, 9, 524.	1.3	119
6	Peroxiredoxin 6 Phosphorylation and Subsequent Phospholipase A2 Activity Are Required for Agonist-mediated Activation of NADPH Oxidase in Mouse Pulmonary Microvascular Endothelium and Alveolar Macrophages. Journal of Biological Chemistry, 2011, 286, 11696-11706.	1.6	114
7	Role of oxidized human plasma low density lipoproteins in atherosclerosis: effects on smooth muscle cell proliferation. Molecular and Cellular Biochemistry, 1992, 111, 143-7.	1.4	104
8	Acute exposure to e-cigarettes causes inflammation and pulmonary endothelial oxidative stress in nonsmoking, healthy young subjects. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2019, 317, L155-L166.	1.3	85
9	Shear stress increases expression of a K_{ATP} channel in rat and bovine pulmonary vascular endothelial cells. American Journal of Physiology - Cell Physiology, 2003, 285, C959-C967.	2.1	83
10	Shear stress-related mechanosignaling with lung ischemia: lessons from basic research can inform lung transplantation. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2014, 307, L668-L680.	1.3	77
11	A non-BRICHOSSFTPCmutant (SP-C^{I73T}) linked to interstitial lung disease promotes a late block in macroautophagy disrupting cellular proteostasis and mitophagy. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 308, L33-L47.	1.3	77
12	Acute Effects of Electronic Cigarette Aerosol Inhalation on Vascular Function Detected at Quantitative MRI. Radiology, 2019, 293, 97-106.	3.6	76
13	Mechanotransduction in the Endothelium: Role of Membrane Proteins and Reactive Oxygen Species in Sensing, Transduction, and Transmission of the Signal with Altered Blood Flow. Antioxidants and Redox Signaling, 2014, 20, 899-913.	2.5	72
14	Neutral sphingomyelinase action stimulates signal transduction of tumor necrosis factor-alpha in the synthesis of cholesteryl esters in human fibroblasts. Journal of Biological Chemistry, 1994, 269, 879-82.	1.6	71
15	Caveolae are an essential component of the pathway for endothelial cell signaling associated with abrupt reduction of shear stress. Biochimica Et Biophysica Acta - Molecular Cell Research, 2008, 1783, 1866-1875.	1.9	65
16	KATPChannels Are an Important Component of the Shear-Sensing Mechanism in the Pulmonary Microvasculature. Microcirculation, 2006, 13, 633-644.	1.0	64
17	Oxidized low density lipoprotein stimulates aortic smooth muscle cell proliferation. Glycobiology, 1996, 6, 303-311.	1.3	63
18	Activation of endothelial NADPH oxidase during normoxic lung ischemia is KATP channel dependent. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2005, 289, L954-L961.	1.3	62

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19	Oxidized low density lipoproteins stimulate galactosyltransferase activity, ras activation, p44 mitogen activated protein kinase and c-fos expression in aortic smooth muscle cells. Glycobiology, 1997, 7, 703-710.	1.3	61
20	Lung endothelial cell proliferation with decreased shear stress is mediated by reactive oxygen species. American Journal of Physiology - Cell Physiology, 2006, 290, C66-C76.	2.1	57
21	The phospholipase A₂activity of peroxiredoxin 6 modulates NADPH oxidase 2 activationvialysophosphatidic acid receptor signaling in the pulmonary endothelium and alveolar macrophages. FASEB Journal, 2016, 30, 2885-2898.	0.2	56
22	Critical role of peroxiredoxin 6 in the repair of peroxidized cell membranes following oxidative stress. Free Radical Biology and Medicine, 2015, 87, 356-365.	1.3	55
23	Membrane depolarization and NADPH oxidase activation in aortic endothelium during ischemia reflect altered mechanotransduction. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 288, H336-H343.	1.5	53
24	Protection against LPS-induced acute lung injury by a mechanism-based inhibitor of NADPH oxidase (type 2). American Journal of Physiology - Lung Cellular and Molecular Physiology, 2014, 306, L635-L644.	1.3	50
25	Stop the Flow: A Paradigm for Cell Signaling Mediated by Reactive Oxygen Species in the Pulmonary Endothelium. Annual Review of Physiology, 2012, 74, 403-424.	5.6	46
26	PECAM-1 and caveolae form the mechanosensing complex necessary for NOX2 activation and angiogenic signaling with stopped flow in pulmonary endothelium. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2013, 305, L805-L818.	1.3	46
27	A Novel Nontoxic Inhibitor of the Activation of NADPH Oxidase Reduces Reactive Oxygen Species Production in Mouse Lung. Journal of Pharmacology and Experimental Therapeutics, 2013, 345, 284-296.	1.3	46
28	Ca2+Flux Through Voltage-Gated Channels with Flow Cessation in Pulmonary Microvascular Endothelial Cells. Microcirculation, 2004, 11, 517-526.	1.0	42
29	Lung Ischemia: A Model for Endothelial Mechanotransduction. Cell Biochemistry and Biophysics, 2008, 52, 125-138.	0.9	42
30	Mechanosignaling in the vasculature: emerging concepts in sensing, transduction and physiological responses. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 308, H1451-H1462.	1.5	41
31	Rac and PI3 Kinase Mediate Endothelial Cellâ€“Reactive Oxygen Species Generation During Normoxic Lung Ischemia. Antioxidants and Redox Signaling, 2008, 10, 679-690.	2.5	38
32	Mechanotransduction: Forces, Sensors, and Redox Signaling. Antioxidants and Redox Signaling, 2014, 20, 868-871.	2.5	38
33	Studies of the action of ceramide-like substances (d- andl-PDMP) on sphingolipid glycosyltransferases and purified lactosylceramide synthase. Glycoconjugate Journal, 1996, 13, 481-486.	1.4	36
34	Inhibition of the phospholipase A2 activity of peroxiredoxin 6 prevents lung damage with exposure to hyperoxia. Redox Biology, 2015, 4, 321-327.	3.9	35
35	Genetic inactivation of the phospholipase A₂activity of peroxiredoxin 6 in mice protects against LPS-induced acute lung injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2019, 316, L656-L668.	1.3	33
36	Endothelial Cell Proliferation Associated with Abrupt Reduction in Shear Stress Is Dependent on Reactive Oxygen Species. Antioxidants and Redox Signaling, 2004, 6, 245-258.	2.5	32

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37	Digalactosylceramide is the receptor for staphylococcal enterotoxin-B in human kidney proximal tubular cells. Glycobiology, 1995, 5, 327-333.	1.3	30
38	Mechanotransduction Drives Post Ischemic Revascularization Through K_{ATP} Channel Closure and Production of Reactive Oxygen Species. Antioxidants and Redox Signaling, 2014, 20, 872-886.	2.5	30
39	The relationship between plasma lipid peroxidation products and primary graft dysfunction after lung transplantation is modified by donor smoking and reperfusion hyperoxia. Journal of Heart and Lung Transplantation, 2016, 35, 500-507.	0.3	30
40	Strategy for selection of cell variants deficient in poly(ADP-ribose) polymerase. Experimental Cell Research, 1987, 172, 245-257.	1.2	28
41	Glycosphingolipids: The putative receptor for staphylococcus aureus enterotoxin-B in human kidney proximal tubular cells. Molecular and Cellular Biochemistry, 1992, 113, 25-31.	1.4	26
42	Purification of uridine diphosphate-galactose:glucosyl ceramide, beta 1-4 galactosyltransferase from human kidney. Journal of Biological Chemistry, 1992, 267, 7148-53.	1.6	26
43	Neutral sphingomyelinase increases the binding, internalization, and degradation of low density lipoproteins and synthesis of cholesteryl ester in cultured human fibroblasts. Journal of Biological Chemistry, 1993, 268, 3401-6.	1.6	24
44	A Peptide Inhibitor of NADPH Oxidase (NOX2) Activation Markedly Decreases Mouse Lung Injury and Mortality Following Administration of Lipopolysaccharide (LPS). International Journal of Molecular Sciences, 2019, 20, 2395.	1.8	23
45	The Synthetic Lignan Secoisolariciresinol Diglucoside Prevents Asbestos-Induced NLRP3 Inflammasome Activation in Murine Macrophages. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-14.	1.9	22
46	Onset of Inflammation With Ischemia: Implications for Donor Lung Preservation and Transplant Survival. American Journal of Transplantation, 2016, 16, 2598-2611.	2.6	21
47	Severe Impairment of Microcirculatory Perfused Vessel Density Is Associated With Postoperative Lactate and Acute Organ Injury After Cardiac Surgery. Journal of Cardiothoracic and Vascular Anesthesia, 2021, 35, 106-115.	0.6	21
48	NOX2 in lung inflammation: quantum dot based in situ imaging of NOX2-mediated expression of vascular cell adhesion molecule-1. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2014, 306, L260-L268.	1.3	20
49	Acute e-cig inhalation impacts vascular health: a study in smoking naÃ¯ve subjects. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H144-H158.	1.5	18
50	Peroxiredoxin6 in Endothelial Signaling. Antioxidants, 2019, 8, 63.	2.2	17
51	Synthetic Secoisolariciresinol Diglucoside (LGM2605) Protects Human Lung in an Ex Vivo Model of Proton Radiation Damage. International Journal of Molecular Sciences, 2017, 18, 2525.	1.8	16
52	Synthetic Lignan Secoisolariciresinol Diglucoside (LGM2605) Reduces Asbestos-Induced Cytotoxicity in an Nrf2-Dependent and -Independent Manner. Antioxidants, 2018, 7, 38.	2.2	16
53	LGM2605 Reduces Space Radiation-Induced NLRP3 Inflammasome Activation and Damage in In Vitro Lung Vascular Networks. International Journal of Molecular Sciences, 2019, 20, 176.	1.8	16
54	Anti-inflammatory effects on ischemia/reperfusion-injured lung transplants by the cluster of differentiation 26/dipeptidylpeptidase 4 (CD26/DPP4) inhibitor vildagliptin. Journal of Thoracic and Cardiovascular Surgery, 2017, 153, 713-724.e4.	0.4	15

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55	Diminishing Efficacy of Prone Positioning With Late Application in Evolving Lung Injury. Critical Care Medicine, 2021, 49, e1015-e1024.	0.4	14
56	Regulation of synthesis of lactosylceramide in normal and tumor proximal tubular cells. Lipids and Lipid Metabolism, 1993, 1167, 339-344.	2.6	13
57	Oxidized low density lipoproteins and lactosylceramide both stimulate the expression of proliferating cell nuclear antigen and the proliferation of aortic smooth muscle cells. Indian Journal of Biochemistry and Biophysics, 1997, 34, 56-60.	0.2	13
58	[9] Assay of lactosylceramide synthase and comments on its potential role in signal transduction. Methods in Enzymology, 2000, 311, 73-81.	0.4	12
59	Lung Metabolism and Inflammation during Mechanical Ventilation; An Imaging Approach. Scientific Reports, 2018, 8, 3525.	1.6	12
60	Circulating Donor Lung-specific Exosome Profiles Enable Noninvasive Monitoring of Acute Rejection in a Rodent Orthotopic Lung Transplantation Model. Transplantation, 2022, 106, 754-766.	0.5	10
61	A Peptide Inhibitor of Peroxiredoxin 6 Phospholipase A2 Activity Significantly Protects against Lung Injury in a Mouse Model of Ventilator Induced Lung Injury (VILI). Antioxidants, 2021, 10, 925.	2.2	10
62	Copper Oxide Nanoparticle-Induced Acute Inflammatory Response and Injury in Murine Lung Is Ameliorated by Synthetic Secoisolariciresinol Diglucoside (LGM2605). International Journal of Molecular Sciences, 2021, 22, 9477.	1.8	9
63	Pulmonary vascular inflammation with fatal coronavirus disease 2019 (COVID-19): possible role for the NLRP3 inflammasome. Respiratory Research, 2022, 23, 25.	1.4	9
64	Detection of lung transplant rejection in a rat model using hyperpolarized [1â€¹³C] pyruvateâ€based metabolic imaging. NMR in Biomedicine, 2019, 32, e4107.	1.6	8
65	Metabolic Imaging and Biological Assessment: Platforms to Evaluate Acute Lung Injury and Inflammation. Frontiers in Physiology, 2020, 11, 937.	1.3	8
66	How reliable are models for malaria vaccine development? Lessons from irradiated sporozoite immunizations. Journal of Postgraduate Medicine, 2006, 52, 321-4.	0.2	7
67	Pulmonary pyruvate metabolism as an index of inflammation and injury in a rat model of acute respiratory distress syndrome. NMR in Biomedicine, 2020, 33, e4380.	1.6	6
68	Inhibition of Peroxiredoxin 6 PLA2 Activity Decreases Oxidative Stress and the Severity of Acute Lung Injury in the Mouse Cecal Ligation and Puncture Model. Antioxidants, 2021, 10, 1676.	2.2	6
69	Glycosphingolipids in patients with the Rett syndrome. Brain and Development, 1990, 12, 85-87.	0.6	5
70	New Insights From MRI and Cell Biology Into the Acute Vascular-Metabolic Implications of Electronic Cigarette Vaping. Frontiers in Physiology, 2020, 11, 492.	1.3	4
71	Phosphatidylcholine stimulates the activity of UDP-Gal beta 1-4 galactosyltransferase in normal human kidney proximal tumour cells. Indian Journal of Biochemistry and Biophysics, 1990, 27, 375-8.	0.2	4
72	Paradoxical Response of Endothelial ROS production in Peroxiredoxin 6 null mice to Ischemia. FASEB Journal, 2007, 21, .	0.2	3

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73	The vascular system: components, signaling, and regulation. , 2021, , 3-13.		2
74	Effects of monensin on glycosphingolipid metabolism in cultured human proximal tubular cells. Indian Journal of Biochemistry and Biophysics, 1993, 30, 346-52.	0.2	2
75	Donor extracellular vesicle trafficking via the pleural space represents a novel pathway for allorecognition after lung transplantation. American Journal of Transplantation, 2022, 22, 1909-1918.	2.6	2
76	X-ray-induced damage repair in exponentially growing and growth arrested confluent poly(adenosine) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Oncology, 2000, 17, 955-62.	1.4	1
77	Response to letter by Dr. M. S. A. Mohamed (Antagonizing reactive oxygen species during lung) Tj ETQq1 1 0.784314 rgBT /Overlock L909-L909.	1.3	1
78	Editorial: Vascular Health: The Endothelial Perspective in Regulation of Inflammation and Injury. Frontiers in Physiology, 2021, 12, 732234.	1.3	1
79	ROS generated with Ischemia are a Redox Signal for Angiogenesis. FASEB Journal, 2009, 23, 1007.4.	0.2	1
80	Endothelial mechanotransduction with loss of shear is a signal for angiogenesis. FASEB Journal, 2010, 24, 602.3.	0.2	1
81	PI3Kinase/Akt activation trigger ROS production in a model of pulmonary ischemia. FASEB Journal, 2010, 24, 796.6.	0.2	1
82	Mechanosensing by K ATP channels and PECAMâ€1 contributes to superoxide generation in mouse model of lung ischemia. FASEB Journal, 2012, 26, 696.13.	0.2	1
83	Therapeutic efficacy of MJ33, a novel inhibitor of phospholipase A 2 (PLA 2) of peroxiredoxin 6 (Prdx6), in LPSâ€induced acute lung injury (ALI). FASEB Journal, 2013, 27, 1107.11.	0.2	1
84	Utility of FDG PET/CT in assessing bowel inflammation. American Journal of Nuclear Medicine and Molecular Imaging, 2021, 11, 271-279.	1.0	1
85	Oxidant-Mediated Signaling and Injury in Pulmonary Endothelium. , 0, , 261-285.		1
86	Endothelial Mechanotransduction in Lung: Ischemia in the Pulmonary Vasculature. , 0, , 1202-1213.		0
87	Ischemia in the Pulmonary Vasculature: Redox Signaling for Angiogenesis. FASEB Journal, 2008, 22, 929.1.	0.2	0
88	Depolarization is the trigger for PI3K/Akt activation and leads to ROS production in a model of pulmonary ischemia. FASEB Journal, 2009, 23, 999.6.	0.2	0
89	The PLA2 activity is required for Angiotensin IIâ€mediated Endothelial NADPH oxidase. FASEB Journal, 2010, 24, 785.5.	0.2	0
90	Reactive Oxygen Species (ROS) generated with obstruction of blood flow drives vascular remodeling. FASEB Journal, 2011, 25, 1093.3.	0.2	0

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91	Interaction of p67phox with Prdx6 regulates PLA2 activity. FASEB Journal, 2011, 25, .	0.2	0
92	Increased Generation of Reactive Oxygen Species (ROS) via Mechanosensing Requires PECAM in the Lung. FASEB Journal, 2011, 25, 1093.15.	0.2	0
93	Phospholipase A 2 (PLA 2) activity of phosphoPeroxiredoxin6 (pPrdx6) is regulated by the interaction with p67 phox. FASEB Journal, 2012, 26, 581.4.	0.2	0
94	MJ33, an inhibitor of the phospholipase A 2 activity of peroxiredoxin 6, reduces reactive oxygen species production in a model of endotoxin induced lung inflammation. FASEB Journal, 2012, 26, 1137.2.	0.2	0
95	The role of KIR6.2 in mediating NOX2â€derived ROSâ€dependent neovascularization in response to ischemic injury. FASEB Journal, 2012, 26, 682.17.	0.2	0
96	Peptide Quantum Dot Conjugates Detect Integrin Î± v Î² 3. FASEB Journal, 2012, 26, .	0.2	0
97	Mechanosensing with restart of flow drives K ATP channel induced NOX2 activation in a model of Lung Ischemia Reperfusion. FASEB Journal, 2013, 27, 913.19.	0.2	0
98	Detecting cell adhesion molecules in intact lung using quantum dot conjugates targeted to endothelial cells. FASEB Journal, 2013, 27, 1143.3.	0.2	0
99	Mechanosignal Transduction via NOX2 with Lung Ischemia Reperfusion: Lessons for Lung Transplant. FASEB Journal, 2015, 29, 1029.9.	0.2	0
100	Pulmonary Endothelial Activation with COVIDâ€19: Possible Role of Reactive Oxygen Species. FASEB Journal, 2022, 36, .	0.2	0
101	CD26-inhibition correlates with the absence of chronic lung allograft dysfunction and decreases fibroblast activity in vitro. British Journal of Surgery, 2022, 109, .	0.1	0