

# Shampa Chatterjee

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Circulating Donor Lung-specific Exosome Profiles Enable Noninvasive Monitoring of Acute Rejection in a Rodent Orthotopic Lung Transplantation Model. <i>Transplantation</i> , 2022, 106, 754-766.	0.5	10
2	Pulmonary vascular inflammation with fatal coronavirus disease 2019 (COVID-19): possible role for the NLRP3 inflammasome. <i>Respiratory Research</i> , 2022, 23, 25.	1.4	9
3	Donor extracellular vesicle trafficking via the pleural space represents a novel pathway for allorecognition after lung transplantation. <i>American Journal of Transplantation</i> , 2022, 22, 1909-1918.	2.6	2
4	Pulmonary Endothelial Activation with COVID-19: Possible Role of Reactive Oxygen Species. <i>FASEB Journal</i> , 2022, 36, .	0.2	0
5	CD26-inhibition correlates with the absence of chronic lung allograft dysfunction and decreases fibroblast activity in vitro. <i>British Journal of Surgery</i> , 2022, 109, .	0.1	0
6	Severe Impairment of Microcirculatory Perfused Vessel Density Is Associated With Postoperative Lactate and Acute Organ Injury After Cardiac Surgery. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2021, 35, 106-115.	0.6	21
7	Acute e-cig inhalation impacts vascular health: a study in smoking naïve subjects. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 320, H144-H158.	1.5	18
8	Diminishing Efficacy of Prone Positioning With Late Application in Evolving Lung Injury. <i>Critical Care Medicine</i> , 2021, 49, e1015-e1024.	0.4	14
9	A Peptide Inhibitor of Peroxiredoxin 6 Phospholipase A2 Activity Significantly Protects against Lung Injury in a Mouse Model of Ventilator Induced Lung Injury (VILI). <i>Antioxidants</i> , 2021, 10, 925.	2.2	10
10	Editorial: Vascular Health: The Endothelial Perspective in Regulation of Inflammation and Injury. <i>Frontiers in Physiology</i> , 2021, 12, 732234.	1.3	1
11	Copper Oxide Nanoparticle-Induced Acute Inflammatory Response and Injury in Murine Lung Is Ameliorated by Synthetic Secoisolariciresinol Diglucoside (LGM2605). <i>International Journal of Molecular Sciences</i> , 2021, 22, 9477.	1.8	9
12	The vascular system: components, signaling, and regulation. , 2021, , 3-13.		2
13	Inhibition of Peroxiredoxin 6 PLA2 Activity Decreases Oxidative Stress and the Severity of Acute Lung Injury in the Mouse Cecal Ligation and Puncture Model. <i>Antioxidants</i> , 2021, 10, 1676.	2.2	6
14	Utility of FDG PET/CT in assessing bowel inflammation. <i>American Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 11, 271-279.	1.0	1
15	Pulmonary pyruvate metabolism as an index of inflammation and injury in a rat model of acute respiratory distress syndrome. <i>NMR in Biomedicine</i> , 2020, 33, e4380.	1.6	6
16	Metabolic Imaging and Biological Assessment: Platforms to Evaluate Acute Lung Injury and Inflammation. <i>Frontiers in Physiology</i> , 2020, 11, 937.	1.3	8
17	New Insights From MRI and Cell Biology Into the Acute Vascular-Metabolic Implications of Electronic Cigarette Vaping. <i>Frontiers in Physiology</i> , 2020, 11, 492.	1.3	4
18	Acute Effects of Electronic Cigarette Aerosol Inhalation on Vascular Function Detected at Quantitative MRI. <i>Radiology</i> , 2019, 293, 97-106.	3.6	76

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19	Detection of lung transplant rejection in a rat model using hyperpolarized [ <sup>13</sup> C] pyruvate-based metabolic imaging. <i>NMR in Biomedicine</i> , 2019, 32, e4107.	1.6	8
20	A Peptide Inhibitor of NADPH Oxidase (NOX2) Activation Markedly Decreases Mouse Lung Injury and Mortality Following Administration of Lipopolysaccharide (LPS). <i>International Journal of Molecular Sciences</i> , 2019, 20, 2395.	1.8	23
21	Acute exposure to e-cigarettes causes inflammation and pulmonary endothelial oxidative stress in nonsmoking, healthy young subjects. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2019, 317, L155-L166.	1.3	85
22	Peroxiredoxin6 in Endothelial Signaling. <i>Antioxidants</i> , 2019, 8, 63.	2.2	17
23	LGM2605 Reduces Space Radiation-Induced NLRP3 Inflammasome Activation and Damage in In Vitro Lung Vascular Networks. <i>International Journal of Molecular Sciences</i> , 2019, 20, 176.	1.8	16
24	Genetic inactivation of the phospholipase A <sub>2</sub> activity of peroxiredoxin 6 in mice protects against LPS-induced acute lung injury. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2019, 316, L656-L668.	1.3	33
25	Lung Metabolism and Inflammation during Mechanical Ventilation; An Imaging Approach. <i>Scientific Reports</i> , 2018, 8, 3525.	1.6	12
26	Endothelial Mechanotransduction, Redox Signaling and the Regulation of Vascular Inflammatory Pathways. <i>Frontiers in Physiology</i> , 2018, 9, 524.	1.3	119
27	Synthetic Lignan Secoisolariciresinol Diglucoside (LGM2605) Reduces Asbestos-Induced Cytotoxicity in an Nrf2-Dependent and -Independent Manner. <i>Antioxidants</i> , 2018, 7, 38.	2.2	16
28	Red blood cell-hitchhiking boosts delivery of nanocarriers to chosen organs by orders of magnitude. <i>Nature Communications</i> , 2018, 9, 2684.	5.8	247
29	Anti-inflammatory effects on ischemia/reperfusion-injured lung transplants by the cluster of differentiation 26/dipeptidylpeptidase 4 (CD26/DPP4) inhibitor vildagliptin. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2017, 153, 713-724.e4.	0.4	15
30	Synthetic Secoisolariciresinol Diglucoside (LGM2605) Protects Human Lung in an Ex Vivo Model of Proton Radiation Damage. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2525.	1.8	16
31	The Synthetic Lignan Secoisolariciresinol Diglucoside Prevents Asbestos-Induced NLRP3 Inflammasome Activation in Murine Macrophages. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-14.	1.9	22
32	Onset of Inflammation With Ischemia: Implications for Donor Lung Preservation and Transplant Survival. <i>American Journal of Transplantation</i> , 2016, 16, 2598-2611.	2.6	21
33	The relationship between plasma lipid peroxidation products and primary graft dysfunction after lung transplantation is modified by donor smoking and reperfusion hyperoxia. <i>Journal of Heart and Lung Transplantation</i> , 2016, 35, 500-507.	0.3	30
34	The phospholipase A <sub>2</sub> activity of peroxiredoxin 6 modulates NADPH oxidase 2 activation via lysophosphatidic acid receptor signaling in the pulmonary endothelium and alveolar macrophages. <i>FASEB Journal</i> , 2016, 30, 2885-2898.	0.2	56
35	Inhibition of the phospholipase A <sub>2</sub> activity of peroxiredoxin 6 prevents lung damage with exposure to hyperoxia. <i>Redox Biology</i> , 2015, 4, 321-327.	3.9	35
36	Critical role of peroxiredoxin 6 in the repair of peroxidized cell membranes following oxidative stress. <i>Free Radical Biology and Medicine</i> , 2015, 87, 356-365.	1.3	55

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37	Mechanosignaling in the vasculature: emerging concepts in sensing, transduction and physiological responses. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 308, H1451-H1462.	1.5	41
38	A non-BRICHOS<i>SFTPC</i> mutant (SP-C<sup>I73T</sup>) linked to interstitial lung disease promotes a late block in macroautophagy disrupting cellular proteostasis and mitophagy. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 308, L33-L47.	1.3	77
39	Mechanosignal Transduction via NOX2 with Lung Ischemia Reperfusion: Lessons for Lung Transplant. <i>FASEB Journal</i> , 2015, 29, 1029.9.	0.2	0
40	Shear stress-related mechanosignaling with lung ischemia: lessons from basic research can inform lung transplantation. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014, 307, L668-L680.	1.3	77
41	NOX2 in lung inflammation: quantum dot based in situ imaging of NOX2-mediated expression of vascular cell adhesion molecule-1. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014, 306, L260-L268.	1.3	20
42	Mechanotransduction Drives Post Ischemic Revascularization Through K<sub>ATP</sub> Channel Closure and Production of Reactive Oxygen Species. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 872-886.	2.5	30
43	Protection against LPS-induced acute lung injury by a mechanism-based inhibitor of NADPH oxidase (type 2). <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014, 306, L635-L644.	1.3	50
44	Mechanotransduction in the Endothelium: Role of Membrane Proteins and Reactive Oxygen Species in Sensing, Transduction, and Transmission of the Signal with Altered Blood Flow. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 899-913.	2.5	72
45	Mechanotransduction: Forces, Sensors, and Redox Signaling. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 868-871.	2.5	38
46	Response to letter by Dr. M. S. A. Mohamed (Antagonizing reactive oxygen species during lung) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38 L909-L909.	1.3	1
47	PECAM-1 and caveolae form the mechanosensing complex necessary for NOX2 activation and angiogenic signaling with stopped flow in pulmonary endothelium. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2013, 305, L805-L818.	1.3	46
48	A Novel Nontoxic Inhibitor of the Activation of NADPH Oxidase Reduces Reactive Oxygen Species Production in Mouse Lung. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2013, 345, 284-296.	1.3	46
49	Mechanosensing with restart of flow drives K ATP channel induced NOX2 activation in a model of Lung Ischemia Reperfusion. <i>FASEB Journal</i> , 2013, 27, 913.19.	0.2	0
50	Detecting cell adhesion molecules in intact lung using quantum dot conjugates targeted to endothelial cells. <i>FASEB Journal</i> , 2013, 27, 1143.3.	0.2	0
51	Therapeutic efficacy of MJ33, a novel inhibitor of phospholipase A 2 (PLA 2 ) of peroxiredoxin 6 (Prdx6), in LPSâ€­induced acute lung injury (ALI). <i>FASEB Journal</i> , 2013, 27, 1107.11.	0.2	1
52	Membrane depolarization is the trigger for PI3K/Akt activation and leads to the generation of ROS. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H105-H114.	1.5	122
53	Stop the Flow: A Paradigm for Cell Signaling Mediated by Reactive Oxygen Species in the Pulmonary Endothelium. <i>Annual Review of Physiology</i> , 2012, 74, 403-424.	5.6	46
54	Phospholipase A 2 (PLA 2 ) activity of phosphoPeroxiredoxin6 (pPrdx6) is regulated by the interaction with p67 phox. <i>FASEB Journal</i> , 2012, 26, 581.4.	0.2	0

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55	Mechanosensing by K ATP channels and PECAM-1 contributes to superoxide generation in mouse model of lung ischemia. FASEB Journal, 2012, 26, 696.13.	0.2	1
56	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
57	The role of KIR6.2 in mediating NOX2-derived ROS-dependent neovascularization in response to ischemic injury. FASEB Journal, 2012, 26, 682.17.	0.2	0
58	Peptide Quantum Dot Conjugates Detect Integrin $\alpha 5 \beta 1$ . FASEB Journal, 2012, 26, .	0.2	0
59	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
60	Reactive Oxygen Species (ROS) generated with obstruction of blood flow drives vascular remodeling. FASEB Journal, 2011, 25, 1093.3.	0.2	0
61	Interaction of p67phox with Prdx6 regulates PLA2 activity. FASEB Journal, 2011, 25, .	0.2	0
62	Increased Generation of Reactive Oxygen Species (ROS) via Mechanosensing Requires PECAM in the Lung. FASEB Journal, 2011, 25, 1093.15.	0.2	0
63	Endothelial mechanotransduction with loss of shear is a signal for angiogenesis. FASEB Journal, 2010, 24, 602.3.	0.2	1
64	PI3Kinase/Akt activation trigger ROS production in a model of pulmonary ischemia. FASEB Journal, 2010, 24, 796.6.	0.2	1
65	The PLA2 activity is required for Angiotensin II-mediated Endothelial NADPH oxidase. FASEB Journal, 2010, 24, 785.5.	0.2	0
66	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
67	ROS generated with Ischemia are a Redox Signal for Angiogenesis. FASEB Journal, 2009, 23, 1007.4.	0.2	1
68	Lung Ischemia: A Model for Endothelial Mechanotransduction. Cell Biochemistry and Biophysics, 2008, 52, 125-138.	0.9	42
69	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
70	Rac and PI3 Kinase Mediate Endothelial Cell Reactive Oxygen Species Generation During Normoxic Lung Ischemia. Antioxidants and Redox Signaling, 2008, 10, 679-690.	2.5	38
71	Ischemia in the Pulmonary Vasculature: Redox Signaling for Angiogenesis. FASEB Journal, 2008, 22, 929.1.	0.2	0
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	KATP Channels Are an Important Component of the Shear-Sensing Mechanism in the Pulmonary Microvasculature. <i>Microcirculation</i> , 2006, 13, 633-644.	1.0	64
74	Lung endothelial cell proliferation with decreased shear stress is mediated by reactive oxygen species. <i>American Journal of Physiology - Cell Physiology</i> , 2006, 290, C66-C76.	2.1	57
75	How reliable are models for malaria vaccine development? Lessons from irradiated sporozoite immunizations. <i>Journal of Postgraduate Medicine</i> , 2006, 52, 321-4.	0.2	7
76	Activation of endothelial NADPH oxidase during normoxic lung ischemia is KATP channel dependent. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2005, 289, L954-L961.	1.3	62
77	Membrane depolarization and NADPH oxidase activation in aortic endothelium during ischemia reflect altered mechanotransduction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 288, H336-H343.	1.5	53
78	Endothelial Cell Proliferation Associated with Abrupt Reduction in Shear Stress Is Dependent on Reactive Oxygen Species. <i>Antioxidants and Redox Signaling</i> , 2004, 6, 245-258.	2.5	32
79	Ca <sup>2+</sup> Flux Through Voltage-Gated Channels with Flow Cessation in Pulmonary Microvascular Endothelial Cells. <i>Microcirculation</i> , 2004, 11, 517-526.	1.0	42
80	Shear stress increases expression of a K <sup>+</sup> ATP <sup>-</sup> channel in rat and bovine pulmonary vascular endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2003, 285, C959-C967.	2.1	83
81	Cryopreservation alters membrane sulfhydryl status of bull spermatozoa: Protection by oxidized glutathione. <i>Molecular Reproduction and Development</i> , 2001, 60, 498-506.	1.0	143
82	Production of reactive oxygen species by spermatozoa undergoing cooling, freezing, and thawing. <i>Molecular Reproduction and Development</i> , 2001, 59, 451-458.	1.0	420
83	[9] Assay of lactosylceramide synthase and comments on its potential role in signal transduction. <i>Methods in Enzymology</i> , 2000, 311, 73-81.	0.4	12
84	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
85	Oxidized low density lipoproteins stimulate galactosyltransferase activity, ras activation, p44 mitogen activated protein kinase and c-fos expression in aortic smooth muscle cells. <i>Glycobiology</i> , 1997, 7, 703-710.	1.3	61
86	Oxidized low density lipoproteins and lactosylceramide both stimulate the expression of proliferating cell nuclear antigen and the proliferation of aortic smooth muscle cells. <i>Indian Journal of Biochemistry and Biophysics</i> , 1997, 34, 56-60.	0.2	13
87	Studies of the action of ceramide-like substances (d- and l-PDMP) on sphingolipid glycosyltransferases and purified lactosylceramide synthase. <i>Glycoconjugate Journal</i> , 1996, 13, 481-486.	1.4	36
88	Oxidized low density lipoprotein stimulates aortic smooth muscle cell proliferation. <i>Glycobiology</i> , 1996, 6, 303-311.	1.3	63
89	Digalactosylceramide is the receptor for staphylococcal enterotoxin-B in human kidney proximal tubular cells. <i>Glycobiology</i> , 1995, 5, 327-333.	1.3	30
90	Neutral sphingomyelinase action stimulates signal transduction of tumor necrosis factor-alpha in the synthesis of cholesteryl esters in human fibroblasts. <i>Journal of Biological Chemistry</i> , 1994, 269, 879-82.	1.6	71

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91	Regulation of synthesis of lactosylceramide in normal and tumor proximal tubular cells. <i>Lipids and Lipid Metabolism</i> , 1993, 1167, 339-344.	2.6	13
92	Effects of monensin on glycosphingolipid metabolism in cultured human proximal tubular cells. <i>Indian Journal of Biochemistry and Biophysics</i> , 1993, 30, 346-52.	0.2	2
93	Neutral sphingomyelinase increases the binding, internalization, and degradation of low density lipoproteins and synthesis of cholesteryl ester in cultured human fibroblasts. <i>Journal of Biological Chemistry</i> , 1993, 268, 3401-6.	1.6	24
94	Role of oxidized human plasma low density lipoproteins in atherosclerosis: effects on smooth muscle cell proliferation. <i>Molecular and Cellular Biochemistry</i> , 1992, 111, 143-7.	1.4	104
95	Glycosphingolipids: The putative receptor for staphylococcus aureus enterotoxin-B in human kidney proximal tubular cells. <i>Molecular and Cellular Biochemistry</i> , 1992, 113, 25-31.	1.4	26
96	Purification of uridine diphosphate-galactose:glucosyl ceramide, beta 1-4 galactosyltransferase from human kidney. <i>Journal of Biological Chemistry</i> , 1992, 267, 7148-53.	1.6	26
97	Glycosphingolipids in patients with the Rett syndrome. <i>Brain and Development</i> , 1990, 12, 85-87.	0.6	5
98	Phosphatidylcholine stimulates the activity of UDP-Gal beta 1-4 galactosyltransferase in normal human kidney proximal tumour cells. <i>Indian Journal of Biochemistry and Biophysics</i> , 1990, 27, 375-8.	0.2	4
99	Strategy for selection of cell variants deficient in poly(ADP-ribose) polymerase. <i>Experimental Cell Research</i> , 1987, 172, 245-257.	1.2	28
100	Endothelial Mechanotransduction in Lung: Ischemia in the Pulmonary Vasculature. , 0, , 1202-1213.		0
101	Oxidant-Mediated Signaling and Injury in Pulmonary Endothelium. , 0, , 261-285.		1