Jahar Bhattacharya

List of Publications by Year
in descending order

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97 papers	6,988 citations	81743 39 h-index	110170 64 g-index
102 all docs	102 docs citations	102 times ranked	9361 citing authors

#	Article	IF	Citations
1	Oxidative Crosstalk with Venular Capillary Mitochondria Mediates Barrier Failure in Acute Lung Injury. FASEB Journal, 2022, 36, .	0.2	0
2	Alveolar Responses to Influenza Lung Infection Determined by Confocal Imaging of Live Lungs. FASEB Journal, 2022, 36, .	0.2	0
3	Pulmonary surfactant and drug delivery: Vehiculization, release and targeting of surfactant/tacrolimus formulations. Journal of Controlled Release, 2021, 329, 205-222.	4.8	34
4	Actin fence therapy with exogenous V12Rac1 protects against acute lung injury. JCI Insight, 2021, 6, .	2.3	7
5	Molecular programs of fibrotic change in aging human lung. Nature Communications, 2021, 12, 6309.	5.8	33
6	Modulation of the NLRP3 inflammasome by Sars-CoV-2 Envelope protein. Scientific Reports, 2021, 11, 24432.	1.6	51
7	Optical Determination of Ageâ€Related Changes in Subpleural Collagen of Live Human Lungs. FASEB Journal, 2020, 34, 1-1.	0.2	0
8	Intravascular Delivery of TATâ€conjugated Focal Adhesion Kinase Protects against Acute Lung Injury. FASEB Journal, 2019, 33, 846.2.	0.2	0
9	Pulmonary vascular endothelium: the orchestra conductor in respiratory diseases. European Respiratory Journal, 2018, 51, 1700745.	3.1	136
10	Regulatory T Cells Promote Macrophage Efferocytosis during Inflammation Resolution. Immunity, 2018, 49, 666-677.e6.	6.6	270
11	Disruption of staphylococcal aggregation protects against lethal lung injury. Journal of Clinical Investigation, 2018, 128, 1074-1086.	3.9	39
12	A three-dimensional model of human lung development and disease from pluripotent stem cells. Nature Cell Biology, 2017, 19, 542-549.	4.6	467
13	Intercellular mitochondrial transfer: bioenergetic crosstalk between cells. Current Opinion in Genetics and Development, 2016, 38, 97-101.	1.5	70
14	Macrophage-epithelial interactions in pulmonary alveoli. Seminars in Immunopathology, 2016, 38, 461-469.	2.8	69
15	A Potential Role for Regulatory T Cells in Apoptotic Cell Clearance by Macrophages in a Murine Model of Acute Lung Injury. FASEB Journal, 2015, 29, 148.3.	0.2	0
16	F-actin scaffold stabilizes lamellar bodies during surfactant secretion. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2014, 306, L50-L57.	1.3	23
17	Live Imaging of the Lung. Annual Review of Physiology, 2014, 76, 431-445.	5.6	59
18	Hypercapnia attenuates ventilatorâ€induced lung injury via a disintegrin and metalloproteaseâ€17. Journal of Physiology, 2014, 592, 4507-4521.	1.3	24

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19	Sessile alveolar macrophages communicate with alveolar epithelium to modulate immunity. Nature, 2014, 506, 503-506.	13.7	349
20	Efficient generation of lung and airway epithelial cells from human pluripotent stem cells. Nature Biotechnology, 2014, 32, 84-91.	9.4	497
21	Mitochondria in lung biology and pathology: more than just a powerhouse. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2014, 306, L962-L974.	1.3	158
22	Cell Therapy for Lung Diseases. Report from an NIHâ€“NHLBI Workshop, November 13â€“14, 2012. American Journal of Respiratory and Critical Care Medicine, 2013, 188, 370-375.	2.5	29
23	When Cells Become Organelle Donors. Physiology, 2013, 28, 414-422.	1.6	64
24	Regulation and Repair of the Alveolar-Capillary Barrier in Acute Lung Injury. Annual Review of Physiology, 2013, 75, 593-615.	5.6	266
25	Erythrocytes Induce Proinflammatory Endothelial Activation in Hypoxia. American Journal of Respiratory Cell and Molecular Biology, 2013, 48, 78-86.	1.4	23
26	Synchronized activation of alveolar macrophages determined by live alveolar imaging. FASEB Journal, 2013, 27, 914.5.	0.2	0
27	Platelets induce endothelial tissue factor expression in a mouse model of acid-induced lung injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2012, 302, L1209-L1220.	1.3	13
28	Cadherin selectivity filter regulates endothelial sieving properties. Nature Communications, 2012, 3, 1099.	5.8	11
29	Mitochondrial transfer from bone-marrowâ€“derived stromal cells to pulmonary alveoli protects against acute lung injury. Nature Medicine, 2012, 18, 759-765.	15.2	1,164
30	Lung capillaries raise the hypoxia alarm. Journal of Clinical Investigation, 2012, 122, 3845-3847.	3.9	3
31	First detection of Ca 2+ responses in alveolar macrophages in situ. FASEB Journal, 2012, 26, 1063.16.	0.2	0
32	Cadherin ectodomains and cadherinâ€actin linkages regulate the endothelial barrier. FASEB Journal, 2012, 26, 1063.3.	0.2	0
33	First determination of ATP in alveolar epithelium in situ , effect of mesenchymal stem cells. FASEB Journal, 2012, 26, 1063.15.	0.2	0
34	Cellâ€specific expression of alveolar TNFR1. FASEB Journal, 2012, 26, 1063.14.	0.2	0
35	Migration of Fibrocytes in Fibrogenic Liver Injury. American Journal of Pathology, 2011, 179, 189-198.	1.9	97
36	Localized Acid Instillation by a Wedgedâ€Catheter Method Reveals a Role for Vascular Gap Junctions in Spatial Expansion of Acid Injury. Anatomical Record, 2011, 294, 1585-1591.	0.8	7

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37	Micromechanics of Alveolar Edema. American Journal of Respiratory Cell and Molecular Biology, 2011, 44, 34-39.	1.4	108
38	Activation of TNFR1 ectodomain shedding by mitochondrial Ca2+ determines the severity of inflammation in mouse lung microvessels. Journal of Clinical Investigation, 2011, 121, 1986-1999.	3.9	89
39	Eâ€cadherin ectodomains determine protein sieving properties of the endothelial barrier. FASEB Journal, 2011, 25, 1101.4.	0.2	0
40	Alveolar acid transiently permeabilizes the alveolar epithelium in mouse lungs. FASEB Journal, 2011, 25, 865.7.	0.2	0
41	Motility of alveolar mitochondria. FASEB Journal, 2011, 25, 865.8.	0.2	0
42	Intracellular delivery of activated focal adhesion kinase â€•a novel therapeutic strategy for acute lung injury. FASEB Journal, 2011, 25, 1101.6.	0.2	0
43	Strategic Plan for Lung Vascular Research. American Journal of Respiratory and Critical Care Medicine, 2010, 182, 1554-1562.	2.5	73
44	Endothelial TNFR1 shedding by mitochondria. FASEB Journal, 2010, 24, 777.9.	0.2	0
45	TNFR1 shedding by mitochondrial RISP in lung microvascular endothelium. FASEB Journal, 2010, 24, 797.8.	0.2	0
46	Actin tethering in endothelial junctions. FASEB Journal, 2010, 24, 598.10.	0.2	0
47	Paracrine purinergic signaling determines lung endothelial nitric oxide production. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2009, 296, L901-L910.	1.3	30
48	Concentration-dependent inhibition of angiogenesis by mesenchymal stem cells. Blood, 2009, 113, 4197-4205.	0.6	298
49	Focal actin tethering regulates Eâ€cadherin mobility in lung microvascular endothelial cells. FASEB Journal, 2009, 23, 964.5.	0.2	0
50	Lung microvascular mitochondria regulate TNFÎ±â€induced TNFR1 shedding. FASEB Journal, 2009, 23, 1023.6.	0.2	0
51	Mitochondria determine TNFÎ± receptor distribution in lung microvessels. FASEB Journal, 2009, 23, 594.20.	0.2	0
52	Red blood cellâ€induced proinflammatory lung endothelial signaling in hypoxia. FASEB Journal, 2009, 23, 1023.4.	0.2	0
53	Red blood cells induce hypoxic lung inflammation. Blood, 2008, 111, 5205-5214.	0.6	101
54	Atomic force microscope elastography reveals phenotypic differences in alveolar cell stiffness. Journal of Applied Physiology, 2008, 105, 652-661.	1.2	57

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55	Profile of Eâ€cadherin mobility in the endothelial junction. FASEB Journal, 2008, 22, 964.33.	0.2	0
56	Chloride-Dependent Secretion of Alveolar Wall Liquid Determined by Optical-Sectioning Microscopy. American Journal of Respiratory Cell and Molecular Biology, 2007, 36, 688-696.	1.4	61
57	Alveolar expansion imaged by optical sectioning microscopy. Journal of Applied Physiology, 2007, 103, 1037-1044.	1.2	111
58	Real-time lung microscopy. Journal of Applied Physiology, 2007, 102, 1255-1264.	1.2	60
59	Interpreting the lung microvascular filtration coefficient. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2007, 293, L9-L10.	1.3	11
60	ITF1697, a Stable Lys-Pro-Containing Peptide, Inhibits Weibel-Palade Body Exocytosis Induced by Ischemia/Reperfusion and Pressure Elevation. Molecular Medicine, 2007, 13, 615-624.	1.9	8
61	Red blood cells induce lung inflammation in hypoxia. FASEB Journal, 2007, 21, A1204.	0.2	0
62	Bone marrow stromal cells cause collapse of neocapillary networks in vitro. FASEB Journal, 2007, 21, A1427.	0.2	0
63	Hyperosmolar sucrose treatment of acidâ€induced lung injury in FRNKâ€transfected mice. FASEB Journal, 2007, 21, A555.	0.2	0
64	Impaired mitochondrial Ca2+ dynamics in lipopolysaccharideâ€treated lungs. FASEB Journal, 2007, 21, A550.	0.2	0
65	Tissue conduction of acidâ€induced lung injury. FASEB Journal, 2007, 21, A555.	0.2	0
66	Quantification of lung microvascular permeability by twoâ€photon microscopy. FASEB Journal, 2007, 21, A554.	0.2	0
67	Higher estimate of lung microvascular fluid production. Acta Physiologica, 2006, 188, 75-75.	1.8	2
68	Connexin 43 mediates spread of Ca2+ -dependent proinflammatory responses in lung capillaries. Journal of Clinical Investigation, 2006, 116, 2193-2200.	3.9	142
69	ATP induces alveolar/capillary cross talk in the lung. FASEB Journal, 2006, 20, LB40.	0.2	0
70	Capillary Ca ²⁺ increase induces venular Pâ€selectin expression in lung. FASEB Journal, 2006, 20, A752.	0.2	0
71	Ca 2+ communication through connexin 43 in lung capillaries. FASEB Journal, 2006, 20, A275.	0.2	0
72	Hyperosmolar sucrose protects against acidâ€induced lung injury in awake rats. FASEB Journal, 2006, 20, LB40.	0.2	0

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73	Mitochondrial ROS regulate surfactant secretion in pulmonary alveoli. FASEB Journal, 2006, 20, .	0.2	0
74	Lung endothelial barrier restoration by interactions of Î²â€catenin and focal adhesion kinase. FASEB Journal, 2006, 20, A752.	0.2	0
75	PREVALENCE AND RISK FACTORS OF LEFT VENTRICULAR DIASTOLIC DYSFUNCTION IN COPD PATIENTS. Chest, 2005, 128, 263S.	0.4	2
76	Pressure-induced leukocyte margination in lung postcapillary venules. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2005, 289, L407-L412.	1.3	28
77	Inhibition of Acid-induced Lung Injury by Hyperosmolar Sucrose in Rats. American Journal of Respiratory and Critical Care Medicine, 2005, 172, 1002-1007.	2.5	34
78	Lung Injury. American Journal of Respiratory and Critical Care Medicine, 2004, 170, 928-929.	2.5	7
79	Ongoing angiogenesis in blood vessels of the abdominal aortic aneurysm. Experimental and Molecular Medicine, 2004, 36, 524-533.	3.2	66
80	Endothelial Barrier Strengthening by Activation of Focal Adhesion Kinase. Journal of Biological Chemistry, 2003, 278, 13342-13349.	1.6	72
81	High Tidal Volume Ventilation Induces Proinflammatory Signaling in Rat Lung Endothelium. American Journal of Respiratory Cell and Molecular Biology, 2003, 28, 218-224.	1.4	44
82	Future Research Directions in Acute Lung Injury. American Journal of Respiratory and Critical Care Medicine, 2003, 167, 1027-1035.	2.5	489
83	Mechano-oxidative coupling by mitochondria induces proinflammatory responses in lung venular capillaries. Journal of Clinical Investigation, 2003, 111, 691-699.	3.9	120
84	Hyperosmolarity enhances the lung capillary barrier. Journal of Clinical Investigation, 2003, 112, 1541-1549.	3.9	54
85	Mitochondrial Reactive Oxygen Species Regulate Spatial Profile of Proinflammatory Responses in Lung Venular Capillaries. Journal of Immunology, 2002, 169, 7078-7086.	0.4	55
86	Pressure-induced endothelial Ca2+ oscillations in lung capillaries. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2002, 282, L917-L923.	1.3	64
87	Mechanisms regulating endothelial cell barrier function. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2000, 279, L419-L422.	1.3	206
88	[Ca²⁺]_i oscillations regulate type II cell exocytosis in the pulmonary alveolus. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2000, 279, L5-L13.	1.3	130
89	Gene Therapy for Pulmonary Edema. American Journal of Respiratory Cell and Molecular Biology, 2000, 22, 640-641.	1.4	4
90	Î± v Î² 3 Integrin Induces Tyrosine Phosphorylationâ€“Dependent Ca 2+ Influx in Pulmonary Endothelial Cells. Circulation Research, 2000, 86, 456-462.	2.0	35

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91	A novel signaling mechanism between gas and blood compartments of the lung. Journal of Clinical Investigation, 2000, 105, 905-913.	3.9	93
92	Pressure is proinflammatory in lung venular capillaries. Journal of Clinical Investigation, 1999, 104, 495-502.	3.9	128
93	Ca²⁺Waves in Lung Capillary Endothelium. Circulation Research, 1996, 79, 898-908.	2.0	94
94	Soluble Ligands of the Î±vÎ²4 Integrin Mediate Enhanced Tyrosine Phosphorylation of Multiple Proteins in Adherent Bovine Pulmonary Artery Endothelial Cells. Journal of Biological Chemistry, 1995, 270, 16781-16787.	1.6	67
95	Ligation of Endothelial Î±_vÎ²₃Integrin Increases Capillary Hydraulic Conductivity of Rat Lung. Circulation Research, 1995, 77, 651-659.	2.0	50
96	Microvascular pressures in the isolated, perfused dog lung: Comparison between theory and measurement. Microvascular Research, 1982, 23, 67-76.	1.1	13
97	FACTORS AFFECTING LUNG MICROVASCULAR PRESSURE. Annals of the New York Academy of Sciences, 1982, 384, 107-114.	1.8	10