

# Jahar Bhattacharya

## List of Publications by Year in Descending Order

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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.

94  
papers

5,388  
citations

38  
h-index

73  
g-index

102  
ext. papers

6,289  
ext. citations

7.6  
avg, IF

5.44  
L-index

#	Paper	IF	Citations
94	Modulation of the NLRP3 inflammasome by Sars-CoV-2 Envelope protein.. <i>Scientific Reports</i> , <b>2021</b> , 11, 24432	4.9	9
93	Molecular programs of fibrotic change in aging human lung. <i>Nature Communications</i> , <b>2021</b> , 12, 6309	17.4	1
92	Pulmonary surfactant and drug delivery: Vehiculization, release and targeting of surfactant/tacrolimus formulations. <i>Journal of Controlled Release</i> , <b>2021</b> , 329, 205-222	11.7	17
91	Optical Determination of Age-Related Changes in Subpleural Collagen of Live Human Lungs. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	
90	Intravascular Delivery of TAT-conjugated Focal Adhesion Kinase Protects against Acute Lung Injury. <i>FASEB Journal</i> , <b>2019</b> , 33, 846.2	0.9	
89	Pulmonary vascular endothelium: the orchestra conductor in respiratory diseases: Highlights from basic research to therapy. <i>European Respiratory Journal</i> , <b>2018</b> , 51,	13.6	68
88	Disruption of staphylococcal aggregation protects against lethal lung injury. <i>Journal of Clinical Investigation</i> , <b>2018</b> , 128, 1074-1086	15.9	19
87	Regulatory T Cells Promote Macrophage Efferocytosis during Inflammation Resolution. <i>Immunity</i> , <b>2018</b> , 49, 666-677.e6	32.3	127
86	A three-dimensional model of human lung development and disease from pluripotent stem cells. <i>Nature Cell Biology</i> , <b>2017</b> , 19, 542-549	23.4	297
85	Intercellular mitochondrial transfer: bioenergetic crosstalk between cells. <i>Current Opinion in Genetics and Development</i> , <b>2016</b> , 38, 97-101	4.9	45
84	Macrophage-epithelial interactions in pulmonary alveoli. <i>Seminars in Immunopathology</i> , <b>2016</b> , 38, 461-9	12	48
83	A Potential Role for Regulatory T Cells in Apoptotic Cell Clearance by Macrophages in a Murine Model of Acute Lung Injury. <i>FASEB Journal</i> , <b>2015</b> , 29, 148.3	0.9	
82	Sessile alveolar macrophages communicate with alveolar epithelium to modulate immunity. <i>Nature</i> , <b>2014</b> , 506, 503-6	50.4	250
81	Efficient generation of lung and airway epithelial cells from human pluripotent stem cells. <i>Nature Biotechnology</i> , <b>2014</b> , 32, 84-91	44.5	392
80	Mitochondria in lung biology and pathology: more than just a powerhouse. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2014</b> , 306, L962-74	5.8	117
79	F-actin scaffold stabilizes lamellar bodies during surfactant secretion. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2014</b> , 306, L50-7	5.8	11
78	Live imaging of the lung. <i>Annual Review of Physiology</i> , <b>2014</b> , 76, 431-45	23.1	49

77	Hypercapnia attenuates ventilator-induced lung injury via a disintegrin and metalloprotease-17. <i>Journal of Physiology</i> , <b>2014</b> , 592, 4507-21	3.9	21
76	Cell therapy for lung diseases. Report from an NIH-NHLBI workshop, November 13-14, 2012. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2013</b> , 188, 370-5	10.2	24
75	When cells become organelle donors. <i>Physiology</i> , <b>2013</b> , 28, 414-22	9.8	50
74	Regulation and repair of the alveolar-capillary barrier in acute lung injury. <i>Annual Review of Physiology</i> , <b>2013</b> , 75, 593-615	23.1	194
73	Erythrocytes induce proinflammatory endothelial activation in hypoxia. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2013</b> , 48, 78-86	5.7	19
72	Synchronized activation of alveolar macrophages determined by live alveolar imaging. <i>FASEB Journal</i> , <b>2013</b> , 27, 914.5	0.9	
71	Cadherin selectivity filter regulates endothelial sieving properties. <i>Nature Communications</i> , <b>2012</b> , 3, 1099	7.4	9
70	Mitochondrial transfer from bone-marrow-derived stromal cells to pulmonary alveoli protects against acute lung injury. <i>Nature Medicine</i> , <b>2012</b> , 18, 759-65	50.5	889
69	Platelets induce endothelial tissue factor expression in a mouse model of acid-induced lung injury. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2012</b> , 302, L1209-20	5.8	12
68	Lung capillaries raise the hypoxia alarm. <i>Journal of Clinical Investigation</i> , <b>2012</b> , 122, 3845-7	15.9	2
67	First detection of Ca <sup>2+</sup> responses in alveolar macrophages in situ. <i>FASEB Journal</i> , <b>2012</b> , 26, 1063.16	0.9	
66	Cadherin ectodomains and cadherin-actin linkages regulate the endothelial barrier. <i>FASEB Journal</i> , <b>2012</b> , 26, 1063.3	0.9	
65	First determination of ATP in alveolar epithelium in situ, effect of mesenchymal stem cells. <i>FASEB Journal</i> , <b>2012</b> , 26, 1063.15	0.9	
64	Cell-specific expression of alveolar TNFR1. <i>FASEB Journal</i> , <b>2012</b> , 26, 1063.14	0.9	
63	Migration of fibrocytes in fibrogenic liver injury. <i>American Journal of Pathology</i> , <b>2011</b> , 179, 189-98	5.8	90
62	Localized acid instillation by a wedged-catheter method reveals a role for vascular gap junctions in spatial expansion of acid injury. <i>Anatomical Record</i> , <b>2011</b> , 294, 1585-91	2.1	7
61	Micromechanics of alveolar edema. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2011</b> , 44, 34-9	5.7	81
60	Activation of TNFR1 ectodomain shedding by mitochondrial Ca <sup>2+</sup> determines the severity of inflammation in mouse lung microvessels. <i>Journal of Clinical Investigation</i> , <b>2011</b> , 121, 1986-99	15.9	73

59	E-cadherin ectodomains determine protein sieving properties of the endothelial barrier. <i>FASEB Journal</i> , <b>2011</b> , 25, 1101.4	0.9	
58	Alveolar acid transiently permeabilizes the alveolar epithelium in mouse lungs. <i>FASEB Journal</i> , <b>2011</b> , 25, 865.7	0.9	
57	Motility of alveolar mitochondria. <i>FASEB Journal</i> , <b>2011</b> , 25, 865.8	0.9	
56	Intracellular delivery of activated focal adhesion kinase - a novel therapeutic strategy for acute lung injury. <i>FASEB Journal</i> , <b>2011</b> , 25, 1101.6	0.9	
55	Strategic plan for lung vascular research: An NHLBI-ORDR Workshop Report. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2010</b> , 182, 1554-62	10.2	59
54	Endothelial TNFR1 shedding by mitochondria. <i>FASEB Journal</i> , <b>2010</b> , 24, 777.9	0.9	
53	TNFR1 shedding by mitochondrial RISP in lung microvascular endothelium. <i>FASEB Journal</i> , <b>2010</b> , 24, 797.8.9		
52	Actin tethering in endothelial junctions. <i>FASEB Journal</i> , <b>2010</b> , 24, 598.10	0.9	
51	Paracrine purinergic signaling determines lung endothelial nitric oxide production. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2009</b> , 296, L901-10	5.8	26
50	Concentration-dependent inhibition of angiogenesis by mesenchymal stem cells. <i>Blood</i> , <b>2009</b> , 113, 4197-205		239
49	Focal actin tethering regulates E-cadherin mobility in lung microvascular endothelial cells. <i>FASEB Journal</i> , <b>2009</b> , 23, 964.5	0.9	
48	Lung microvascular mitochondria regulate TNF $\alpha$ -induced TNFR1 shedding. <i>FASEB Journal</i> , <b>2009</b> , 23, 1023.6.9		
47	Mitochondria determine TNF $\alpha$ -receptor distribution in lung microvessels. <i>FASEB Journal</i> , <b>2009</b> , 23, 594.20.0.9		
46	Red blood cell-induced proinflammatory lung endothelial signaling in hypoxia. <i>FASEB Journal</i> , <b>2009</b> , 23, 1023.4	0.9	
45	The Pulmonary Microcirculation <b>2008</b> , 712-734		2
44	Red blood cells induce hypoxic lung inflammation. <i>Blood</i> , <b>2008</b> , 111, 5205-14	2.2	88
43	Atomic force microscope elastography reveals phenotypic differences in alveolar cell stiffness. <i>Journal of Applied Physiology</i> , <b>2008</b> , 105, 652-61	3.7	50
42	Profile of E-cadherin mobility in the endothelial junction. <i>FASEB Journal</i> , <b>2008</b> , 22, 964.33	0.9	

41	Real-time lung microscopy. <i>Journal of Applied Physiology</i> , <b>2007</b> , 102, 1255-64	3.7	56
40	Interpreting the lung microvascular filtration coefficient. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2007</b> , 293, L9-L10	5.8	11
39	ITF1697, a stable Lys-Pro-containing peptide, inhibits weibel-palade body exocytosis induced by ischemia/reperfusion and pressure elevation. <i>Molecular Medicine</i> , <b>2007</b> , 13, 615-24	6.2	8
38	Chloride-dependent secretion of alveolar wall liquid determined by optical-sectioning microscopy. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2007</b> , 36, 688-96	5.7	50
37	Alveolar expansion imaged by optical sectioning microscopy. <i>Journal of Applied Physiology</i> , <b>2007</b> , 103, 1037-44	3.7	94
36	Red blood cells induce lung inflammation in hypoxia. <i>FASEB Journal</i> , <b>2007</b> , 21, A1204	0.9	
35	Bone marrow stromal cells cause collapse of neocapillary networks in vitro. <i>FASEB Journal</i> , <b>2007</b> , 21, A1427	0.9	
34	Hyperosmolar sucrose treatment of acid-induced lung injury in FRNK-transfected mice. <i>FASEB Journal</i> , <b>2007</b> , 21, A555	0.9	
33	Impaired mitochondrial Ca <sup>2+</sup> dynamics in lipopolysaccharide-treated lungs. <i>FASEB Journal</i> , <b>2007</b> , 21, A550	0.9	
32	Tissue conduction of acid-induced lung injury. <i>FASEB Journal</i> , <b>2007</b> , 21, A555	0.9	
31	Quantification of lung microvascular permeability by two-photon microscopy. <i>FASEB Journal</i> , <b>2007</b> , 21, A554	0.9	
30	Higher estimate of lung microvascular fluid production. <i>Acta Physiologica</i> , <b>2006</b> , 188, 75-75	5.6	1
29	Connexin 43 mediates spread of Ca <sup>2+</sup> -dependent proinflammatory responses in lung capillaries. <i>Journal of Clinical Investigation</i> , <b>2006</b> , 116, 2193-200	15.9	121
28	ATP induces alveolar/capillary cross talk in the lung. <i>FASEB Journal</i> , <b>2006</b> , 20, LB40	0.9	
27	Capillary Ca <sup>2+</sup> increase induces venular P-selectin expression in lung. <i>FASEB Journal</i> , <b>2006</b> , 20, A752	0.9	
26	Ca <sup>2+</sup> communication through connexin 43 in lung capillaries. <i>FASEB Journal</i> , <b>2006</b> , 20, A275	0.9	
25	Hyperosmolar sucrose protects against acid-induced lung injury in awake rats. <i>FASEB Journal</i> , <b>2006</b> , 20, LB40	0.9	
24	Lung endothelial barrier restoration by interactions of E-catenin and focal adhesion kinase. <i>FASEB Journal</i> , <b>2006</b> , 20, A752	0.9	

23	Inhibition of acid-induced lung injury by hyperosmolar sucrose in rats. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2005</b> , 172, 1002-7	10.2	32
22	Alveolocapillary cross-talk: Giles F. Filley lecture. <i>Chest</i> , <b>2005</b> , 128, 553S-555S	5.3	2
21	Pressure-induced leukocyte margination in lung postcapillary venules. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2005</b> , 289, L407-12	5.8	24
20	Lung injury: sphingosine-1-phosphate to the rescue. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2004</b> , 170, 928-9	10.2	5
19	Ongoing angiogenesis in blood vessels of the abdominal aortic aneurysm. <i>Experimental and Molecular Medicine</i> , <b>2004</b> , 36, 524-33	12.8	61
18	High tidal volume ventilation induces proinflammatory signaling in rat lung endothelium. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2003</b> , 28, 218-24	5.7	41
17	Future research directions in acute lung injury: summary of a National Heart, Lung, and Blood Institute working group. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2003</b> , 167, 1027-35	10.2	430
16	Endothelial barrier strengthening by activation of focal adhesion kinase. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 13342-9	5.4	65
15	Mechano-oxidative coupling by mitochondria induces proinflammatory responses in lung venular capillaries. <i>Journal of Clinical Investigation</i> , <b>2003</b> , 111, 691-9	15.9	103
14	Hyperosmolarity enhances the lung capillary barrier. <i>Journal of Clinical Investigation</i> , <b>2003</b> , 112, 1541-9	15.9	48
13	Mitochondrial reactive oxygen species regulate spatial profile of proinflammatory responses in lung venular capillaries. <i>Journal of Immunology</i> , <b>2002</b> , 169, 7078-86	5.3	51
12	Pressure-induced endothelial Ca(2+) oscillations in lung capillaries. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2002</b> , 282, L917-23	5.8	59
11	Mechanisms regulating endothelial cell barrier function. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2000</b> , 279, L419-22	5.8	184
10	[Ca(2+)](i) oscillations regulate type II cell exocytosis in the pulmonary alveolus. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2000</b> , 279, L5-13	5.8	110
9	Gene therapy for pulmonary edema. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2000</b> , 22, 640-1	5.7	4
8	alpha(v)beta(3) integrin induces tyrosine phosphorylation-dependent Ca(2+) influx in pulmonary endothelial cells. <i>Circulation Research</i> , <b>2000</b> , 86, 456-62	15.7	33
7	A novel signaling mechanism between gas and blood compartments of the lung. <i>Journal of Clinical Investigation</i> , <b>2000</b> , 105, 905-13	15.9	78
6	Pressure is proinflammatory in lung venular capillaries. <i>Journal of Clinical Investigation</i> , <b>1999</b> , 104, 495-503	15.9	116

5	Ca <sup>2+</sup> waves in lung capillary endothelium. <i>Circulation Research</i> , <b>1996</b> , 79, 898-908	15.7	82
4	Soluble ligands of the alpha v beta 3 integrin mediate enhanced tyrosine phosphorylation of multiple proteins in adherent bovine pulmonary artery endothelial cells. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 16781-7	5.4	62
3	Ligation of endothelial alpha v beta 3 integrin increases capillary hydraulic conductivity of rat lung. <i>Circulation Research</i> , <b>1995</b> , 77, 651-9	15.7	46
2	Microvascular pressures in the isolated, perfused dog lung: comparison between theory and measurement. <i>Microvascular Research</i> , <b>1982</b> , 23, 67-76	3.7	12
1	Factors affecting lung microvascular pressure. <i>Annals of the New York Academy of Sciences</i> , <b>1982</b> , 384, 107-14	6.5	9