William A Altemeier

List of Publications by Year
in descending order

79 papers	3,682 citations	136950 32 h-index	133252 59 g-index
81 all docs	81 docs citations	81 times ranked	5230 citing authors

#	Article	IF	Citations
1	Role of Lung Pericytes and Resident Fibroblasts in the Pathogenesis of Pulmonary Fibrosis. American Journal of Respiratory and Critical Care Medicine, 2013, 188, 820-830.	5.6	317
2	Augmented lung injury due to interaction between hyperoxia and mechanical ventilation*. Critical Care Medicine, 2004, 32, 2496-2501.	0.9	240
3	Interleukin-2-Dependent Allergen-Specific Tissue-Resident Memory Cells Drive Asthma. Immunity, 2016, 44, 155-166.	14.3	223
4	Airway epithelial regulation of pulmonary immune homeostasis and inflammation. Clinical Immunology, 2014, 151, 1-15.	3.2	193
5	Regional ventilation-perfusion distribution is more uniform in the prone position. Journal of Applied Physiology, 2000, 88, 1076-1083.	2.5	179
6	Hyperoxia in the intensive care unit: why more is not always better. Current Opinion in Critical Care, 2007, 13, 73-78.	3.2	172
7	Modulation of Lipopolysaccharide-Induced Gene Transcription and Promotion of Lung Injury by Mechanical Ventilation. Journal of Immunology, 2005, 175, 3369-3376.	0.8	165
8	Mechanical ventilation with moderate tidal volumes synergistically increases lung cytokine response to systemic endotoxin. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2004, 287, L533-L542.	2.9	157
9	Mechanical ventilation induces inflammation, lung injury, and extra-pulmonary organ dysfunction in experimental pneumonia. Laboratory Investigation, 2006, 86, 790-799.	3.7	124
10	Pericyte MyD88 and IRAK4 control inflammatory and fibrotic responses to tissue injury. Journal of Clinical Investigation, 2016, 127, 321-334.	8.2	113
11	Neutrophil extracellular traps (NETs) are increased in the alveolar spaces of patients with ventilator-associated pneumonia. Critical Care, 2018, 22, 358.	5.8	109
12	Fractal nature of regional ventilation distribution. Journal of Applied Physiology, 2000, 88, 1551-1557.	2.5	102
13	Mechanical ventilation interacts with endotoxemia to induce extrapulmonary organ dysfunction. Critical Care, 2006, 10, R136.	5.8	61
14	Pulmonary gas-exchange analysis by using simultaneous deposition of aerosolized and injected microspheres. Journal of Applied Physiology, 1998, 85, 2344-2351.	2.5	59
15	Transglutaminase 2, a Novel Regulator of Eicosanoid Production in Asthma Revealed by Genome-Wide Expression Profiling of Distinct Asthma Phenotypes. PLoS ONE, 2010, 5, e8583.	2.5	59
16	Airway epitheliumâ€“shifted mast cell infiltration regulates asthmatic inflammation via IL-33 signaling. Journal of Clinical Investigation, 2019, 129, 4979-4991.	8.2	57
17	Computational Identification of Key Biological Modules and Transcription Factors in Acute Lung Injury. American Journal of Respiratory and Critical Care Medicine, 2006, 173, 653-658.	5.6	55
18	Increased density of intraepithelial mast cells in patients with exercise-induced bronchoconstriction regulated through epithelially derived thymic stromal lymphopoietin and IL-33. Journal of Allergy and Clinical Immunology, 2014, 133, 1448-1455.	2.9	52

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19	Pulmonary embolization causes hypoxemia by redistributing regional blood flow without changing ventilation. Journal of Applied Physiology, 1998, 85, 2337-2343.	2.5	51
20	Eosinophil Cysteinyl Leukotriene Synthesis Mediated by Exogenous Secreted Phospholipase A2 Group X. Journal of Biological Chemistry, 2010, 285, 41491-41500.	3.4	50
21	Versican is produced by Trif- and type I interferon-dependent signaling in macrophages and contributes to fine control of innate immunity in lungs. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 313, L1069-L1086.	2.9	50
22	Lung pericyte-like cells are functional interstitial immune sentinel cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 312, L556-L567.	2.9	46
23	TLR-2/TLR-4 TREM-1 Signaling Pathway Is Dispensable in Inflammatory Myeloid Cells during Sterile Kidney Injury. PLoS ONE, 2013, 8, e68640.	2.5	43
24	PKR-dependent CHOP induction limits hyperoxia-induced lung injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2011, 300, L422-L429.	2.9	42
25	Experimental acute lung injury induces multi-organ epigenetic modifications in key angiogenic genes implicated in sepsis-associated endothelial dysfunction. Critical Care, 2015, 19, 225.	5.8	42
26	Effect of posture on regional gas exchange in pigs. Journal of Applied Physiology, 2004, 97, 2104-2111.	2.5	41
27	Noninjurious mechanical ventilation activates a proinflammatory transcriptional program in the lung. Physiological Genomics, 2009, 37, 239-248.	2.3	41
28	Regulation and Function of Epithelial Secreted Phospholipase A₂ Group X in Asthma. American Journal of Respiratory and Critical Care Medicine, 2013, 188, 42-50.	5.6	41
29	Role of Urokinase Plasminogen Activator Receptorâ€“Associated Protein in Mouse Lung. American Journal of Respiratory Cell and Molecular Biology, 2012, 46, 233-239.	2.9	39
30	Fas (CD95) induces macrophage proinflammatory chemokine production via a MyD88-dependent, caspase-independent pathway. Journal of Leukocyte Biology, 2007, 82, 721-728.	3.3	37
31	Matrix Metalloproteinaseâ€“7 Coordinates Airway Epithelial Injury Response and Differentiation of Ciliated Cells. American Journal of Respiratory Cell and Molecular Biology, 2013, 48, 390-396.	2.9	36
32	Physiological Implications of the Fractal Distribution of Ventilation and Perfusion in the Lung. Annals of Biomedical Engineering, 2000, 28, 1028-1031.	2.5	33
33	Mechanical ventilation modulates Toll-like receptor-3-induced lung inflammation via a MyD88-dependent, TLR4-independent pathway: a controlled animal study. BMC Pulmonary Medicine, 2010, 10, 57.	2.0	32
34	Positive end-expiratory pressure alters the severity and spatial heterogeneity of ventilator-induced lung injury: An argument for cyclical airway collapse. Journal of Critical Care, 2009, 24, 206-211.	2.2	30
35	CYR61 (CCN1) overexpression induces lung injury in mice. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 308, L759-L765.	2.9	30
36	Modified High-Molecular-Weight Hyaluronan Promotes Allergen-Specific Immune Tolerance. American Journal of Respiratory Cell and Molecular Biology, 2017, 56, 109-120.	2.9	30

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37	Transmembrane and Extracellular Domains of Syndecan-1 Have Distinct Functions in Regulating Lung Epithelial Migration and Adhesion. Journal of Biological Chemistry, 2012, 287, 34927-34935.	3.4	29
38	Secreted PLA2 group X orchestrates innate and adaptive immune responses to inhaled allergen. JCI Insight, 2017, 2, .	5.0	29
39	Identification of Epithelial Phospholipase A₂ Receptor 1 as a Potential Target in Asthma. American Journal of Respiratory Cell and Molecular Biology, 2016, 55, 825-836.	2.9	28
40	Genetic determinants of susceptibility to silver nanoparticleâ€induced acute lung inflammation in mice. FASEB Journal, 2017, 31, 4600-4611.	0.5	28
41	Role of Cells and Mediators in Exercise-Induced Bronchoconstriction. Immunology and Allergy Clinics of North America, 2013, 33, 313-328.	1.9	25
42	Matrix Metalloproteinase-28 Is a Key Contributor to Emphysema Pathogenesis. American Journal of Pathology, 2017, 187, 1288-1300.	3.8	25
43	Fas Activation in Alveolar Epithelial Cells Induces KC (CXCL1) Release by a MyD88-Dependent Mechanism. American Journal of Respiratory Cell and Molecular Biology, 2011, 45, 650-658.	2.9	24
44	Syndecan-1 controls cell migration by activating Rap1 to regulate focal adhesion disassembly. Journal of Cell Science, 2012, 125, 5188-95.	2.0	24
45	Ischemia-Reperfusion Lung Injury Is Attenuated in MyD88-Deficient Mice. PLoS ONE, 2013, 8, e77123.	2.5	24
46	Endogenous secreted phospholipase A 2 group X regulates cysteinyl leukotrienes synthesis by human eosinophils. Journal of Allergy and Clinical Immunology, 2016, 137, 268-277.e8.	2.9	22
47	Epithelial regulation of eicosanoid production in asthma. Pulmonary Pharmacology and Therapeutics, 2012, 25, 432-437.	2.6	19
48	Function of secreted phospholipase A2 group-X in asthma and allergic disease. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2019, 1864, 827-837.	2.4	19
49	Location of eosinophils in the airway wall is critical for specific features of airway hyperresponsiveness and T2 inflammation in asthma. European Respiratory Journal, 2022, 60, 2101865.	6.7	18
50	Effects of Asthma and Human Rhinovirus A16 on the Expression of SARS-CoV-2 Entry Factors in Human Airway Epithelium. American Journal of Respiratory Cell and Molecular Biology, 2020, 63, 859-863.	2.9	17
51	Role of the Fas/FasL system in a model of RSV infection in mechanically ventilated mice. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2011, 301, L451-L460.	2.9	16
52	Quantum dots and mouse strain influence house dust mite-induced allergic airway disease. Toxicology and Applied Pharmacology, 2019, 368, 55-62.	2.8	13
53	System-Wide Mapping of Activated Circuitry in Experimental Systemic Inflammatory Response Syndrome. Shock, 2016, 45, 148-156.	2.1	12
54	The pulmonary inflammatory response to multiwalled carbon nanotubes is influenced by gender and glutathione synthesis. Redox Biology, 2016, 9, 264-275.	9.0	12

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55	Quantum dot induced acute changes in lung mechanics are mouse strain dependent. Inhalation Toxicology, 2018, 30, 397-403.	1.6	12
56	Lipopolysaccharide-Induced Lung Injury Is Independent of Serum Vitamin D Concentration. PLoS ONE, 2012, 7, e49076.	2.5	11
57	Matrix metalloproteinase 28 is regulated by TRIF- and type I IFN-dependent signaling in macrophages. Innate Immunity, 2018, 24, 357-365.	2.4	11
58	Pseudomonal pericarditis complicating cystic fibrosis. , 1999, 27, 62-64.		10
59	Spatial distribution of sequential ventilation during mechanical ventilation of the uninjured lung: an argument for cyclical airway collapse and expansion. BMC Pulmonary Medicine, 2010, 10, 25.	2.0	10
60	Presence of serum amyloid A3 in mouse plasma is dependent on the nature and extent of the inflammatory stimulus. Scientific Reports, 2020, 10, 10397.	3.3	10
61	Ablation of Pericyte-Like Cells in Lungs by Oropharyngeal Aspiration of Diphtheria Toxin. American Journal of Respiratory Cell and Molecular Biology, 2017, 56, 160-167.	2.9	9
62	Secreted Phospholipase A2 Group X Acts as an Adjuvant for Type 2 Inflammation, Leading to an Allergen-Specific Immune Response in the Lung. Journal of Immunology, 2020, 204, 3097-3107.	0.8	9
63	Type I Interferon Signaling Increases Versican Expression and Synthesis in Lung Stromal Cells During Influenza Infection. Journal of Histochemistry and Cytochemistry, 2021, 69, 691-709.	2.5	7
64	Management of Acute Myeloid Leukemia in the Intensive Care Setting. Journal of Intensive Care Medicine, 2015, 30, 375-384.	2.8	6
65	Defining the versican interactome in lung health and disease. American Journal of Physiology - Cell Physiology, 2022, 323, C249-C276.	4.6	6
66	The Effects of Gene Ã— Environment Interactions on Silver Nanoparticle Toxicity in the Respiratory System. Chemical Research in Toxicology, 2019, 32, 952-968.	3.3	5
67	Exercise-induced alterations in phospholipid hydrolysis, airway surfactant, and eicosanoids and their role in airway hyperresponsiveness in asthma. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2021, 320, L705-L714.	2.9	5
68	Mouse Models of Acute Lung Injury. Respiratory Medicine, 2017, , 5-23.	0.1	5
69	Evaluation of Nutritional Gel Supplementation in C57BL/6J Mice Infected with Mouse-Adapted Influenza A/PR/8/34 Virus. Comparative Medicine, 2020, 70, 471-486.	1.0	5
70	Effect of lung pericyte-like cell ablation on the bleomycin model of injury and repair. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2022, 322, L607-L616.	2.9	5
71	Fas-deficient mice have impaired alveolar neutrophil recruitment and decreased expression of anti-KC autoantibody:KC complexes in a model of acute lung injury. Respiratory Research, 2012, 13, 91.	3.6	4
72	The Effects of Genotype Ã— Phenotype Interactions on Transcriptional Response to Silver Nanoparticle Toxicity in Organotypic Cultures of Murine Tracheal Epithelial Cells. Toxicological Sciences, 2020, 173, 131-143.	3.1	4

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73	Pericyteâ€like cells undergo transcriptional reprogramming and distinct functional adaptations in acute lung injury. FASEB Journal, 2021, 35, e21323.	0.5	4
74	Endothelialâ€derived von Willebrand factor accelerates fibrin clotting within engineered microvessels. Journal of Thrombosis and Haemostasis, 2022, 20, 1627-1637.	3.8	4
75	The Intricate Web of Phospholipase A2s and Specific Features of Airway Hyperresponsiveness in Asthma. American Journal of Respiratory Cell and Molecular Biology, 2020, 63, 543-545.	2.9	2
76	The effects of genotypeâ€‰Ã—â€‰phenotype interactions on silver nanoparticle toxicity in organotypic cultures of murine tracheal epithelial cells. Nanotoxicology, 2020, 14, 908-928.	3.0	1
77	The effects of gene Ã— environment interactions on silver nanoparticle toxicity in the respiratory system: An adverse outcome pathway. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2021, 13, e1708.	6.1	1
78	Tracheobronchopathia Osteochondroplastica. Clinical Pulmonary Medicine, 1996, 3, 234-235.	0.3	0
79	Transgenic Animal Models in Lung Research. Respiratory Medicine, 2017, , 25-38.	0.1	0