Michael A Matthay

List of Publications by Year
in descending order

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410 papers	74,658 citations	764 119 h-index	547 264 g-index
432 all docs	432 docs citations	432 times ranked	42015 citing authors

#	ARTICLE	IF	CITATIONS
1	Ventilation with Lower Tidal Volumes as Compared with Traditional Tidal Volumes for Acute Lung Injury and the Acute Respiratory Distress Syndrome. New England Journal of Medicine, 2000, 342, 1301-1308.	13.9	14,454
2	The Acute Respiratory Distress Syndrome. New England Journal of Medicine, 2000, 342, 1334-1349.	13.9	5,867
3	An Expanded Definition of the Adult Respiratory Distress Syndrome. The American Review of Respiratory Disease, 1988, 138, 720-723.	2.9	2,578
4	Higher versus Lower Positive End-Expiratory Pressures in Patients with the Acute Respiratory Distress Syndrome. New England Journal of Medicine, 2004, 351, 327-336.	13.9	2,302
5	The acute respiratory distress syndrome. Journal of Clinical Investigation, 2012, 122, 2731-2740.	3.9	1,434
6	Acute respiratory distress syndrome. Nature Reviews Disease Primers, 2019, 5, 18.	18.1	1,364
7	Subphenotypes in acute respiratory distress syndrome: latent class analysis of data from two randomised controlled trials. Lancet Respiratory Medicine,the, 2014, 2, 611-620.	5.2	992
8	Intrapulmonary Delivery of Bone Marrow-Derived Mesenchymal Stem Cells Improves Survival and Attenuates Endotoxin-Induced Acute Lung Injury in Mice. Journal of Immunology, 2007, 179, 1855-1863.	0.4	836
9	The Acute Respiratory Distress Syndrome: Pathogenesis and Treatment. Annual Review of Pathology: Mechanisms of Disease, 2011, 6, 147-163.	9.6	818
10	Pulmonary Dead-Space Fraction as a Risk Factor for Death in the Acute Respiratory Distress Syndrome. New England Journal of Medicine, 2002, 346, 1281-1286.	13.9	809
11	Lung Epithelial Fluid Transport and the Resolution of Pulmonary Edema. Physiological Reviews, 2002, 82, 569-600.	13.1	690
12	Antibacterial Effect of Human Mesenchymal Stem Cells Is Mediated in Part from Secretion of the Antimicrobial Peptide LL-37. Stem Cells, 2010, 28, 2229-2238.	1.4	672
13	Allogeneic human mesenchymal stem cells for treatment of E. coli endotoxin-induced acute lung injury in the ex vivo perfused human lung. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16357-16362.	3.3	653
14	Sepsis: pathophysiology and clinical management. BMJ, The, 2016, 353, i1585.	3.0	653
15	From evidence to clinical practice: Effective implementation of therapeutic hypothermia to improve patient outcome after cardiac arrest*. Critical Care Medicine, 2006, 34, 1865-1873.	0.4	622
16	Mesenchymal stem (stromal) cells for treatment of ARDS: a phase 1 clinical trial. Lancet Respiratory Medicine,the, 2015, 3, 24-32.	5.2	614
17	Acute Pulmonary Edema. New England Journal of Medicine, 2005, 353, 2788-2796.	13.9	601
18	Lower tidal volume ventilation and plasma cytokine markers of inflammation in patients with acute lung injury*. Critical Care Medicine, 2005, 33, 1-6.	0.4	599

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19	Intact Epithelial Barrier Function Is Critical for the Resolution of Alveolar Edema in Humans. The American Review of Respiratory Disease, 1990, 142, 1250-1257.	2.9	587
20	Acute Lung Injury and the Acute Respiratory Distress Syndrome. American Journal of Respiratory Cell and Molecular Biology, 2005, 33, 319-327.	1.4	584
21	Acute Lung Injury: Epidemiology, Pathogenesis, and Treatment. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2010, 23, 243-252.	0.7	578
22	Is a â€œCytokine Stormâ€• Relevant to COVID-19?. JAMA Internal Medicine, 2020, 180, 1152.	2.6	577
23	Lineage-negative progenitors mobilize to regenerate lung epithelium after major injury. Nature, 2015, 517, 621-625.	13.7	562
24	Human Mesenchymal Stem Cell Microvesicles for Treatment of <i>Escherichia coli</i> Endotoxin-Induced Acute Lung Injury in Mice. Stem Cells, 2014, 32, 116-125.	1.4	550
25	Transfusion-related acute lung injury: incidence and risk factors. Blood, 2012, 119, 1757-1767.	0.6	493
26	Future Research Directions in Acute Lung Injury. American Journal of Respiratory and Critical Care Medicine, 2003, 167, 1027-1035.	2.5	489
27	Hydrostatic mechanisms may contribute to the pathogenesis of human re-expansion pulmonary edema. Intensive Care Medicine, 2004, 30, 1921-1926.	3.9	462
28	Acute respiratory distress syndrome subphenotypes and differential response to simvastatin: secondary analysis of a randomised controlled trial. Lancet Respiratory Medicine,the, 2018, 6, 691-698.	5.2	455
29	Treatment with allogeneic mesenchymal stromal cells for moderate to severe acute respiratory distress syndrome (START study): a randomised phase 2a safety trial. Lancet Respiratory Medicine,the, 2019, 7, 154-162.	5.2	443
30	Rosuvastatin for Sepsis-Associated Acute Respiratory Distress Syndrome. New England Journal of Medicine, 2014, 370, 2191-2200.	13.9	439
31	TGF-Î² is a critical mediator of acute lung injury. Journal of Clinical Investigation, 2001, 107, 1537-1544.	3.9	438
32	What drives neutrophils to the alveoli in ARDS?. Thorax, 2017, 72, 1-3.	2.7	418
33	Randomized, Placebo-controlled Clinical Trial of an Aerosolized Î²₂-Agonist for Treatment of Acute Lung Injury. American Journal of Respiratory and Critical Care Medicine, 2011, 184, 561-568.	2.5	416
34	Mitochondrial Transfer via Tunneling Nanotubes is an Important Mechanism by Which Mesenchymal Stem Cells Enhance Macrophage Phagocytosis in the In Vitro and In Vivo Models of ARDS. Stem Cells, 2016, 34, 2210-2223.	1.4	401
35	Recent trends in acute lung injury mortality: 1996â€"2005*. Critical Care Medicine, 2009, 37, 1574-1579.	0.4	398
36	Pediatric Acute Lung Injury. American Journal of Respiratory and Critical Care Medicine, 2005, 171, 995-1001.	2.5	397

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37	Therapeutic Effects of Human Mesenchymal Stem Cellâ€“derived Microvesicles in Severe Pneumonia in Mice. American Journal of Respiratory and Critical Care Medicine, 2015, 192, 324-336.	2.5	392
38	Receptor for Advanced Glycation End-Products Is a Marker of Type I Cell Injury in Acute Lung Injury. American Journal of Respiratory and Critical Care Medicine, 2006, 173, 1008-1015.	2.5	390
39	Concise Review: Mesenchymal Stem Cells for Acute Lung Injury: Role of Paracrine Soluble Factors. Stem Cells, 2011, 29, 913-919.	1.4	355
40	Collagen-producing lung cell atlas identifies multiple subsets with distinct localization and relevance to fibrosis. Nature Communications, 2020, 11, 1920.	5.8	346
41	Platelet depletion and aspirin treatment protect mice in a two-event model of transfusion-related acute lung injury. Journal of Clinical Investigation, 2009, 119, 3450-61.	3.9	342
42	Interobserver Variability in Applying a Radiographic Definition for ARDS. Chest, 1999, 116, 1347-1353.	0.4	317
43	Low Tidal Volume Reduces Epithelial and Endothelial Injury in Acid-injured Rat Lungs. American Journal of Respiratory and Critical Care Medicine, 2002, 165, 242-249.	2.5	313
44	Therapeutic Effects of Human Mesenchymal Stem Cells in <i>Ex Vivo</i> Human Lungs Injured with Live Bacteria. American Journal of Respiratory and Critical Care Medicine, 2013, 187, 751-760.	2.5	313
45	Elevated levels of plasminogen activator inhibitor-1 in pulmonary edema fluid are associated with mortality in acute lung injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2003, 285, L20-L28.	1.3	309
46	Elevated Plasmin(ogen) as a Common Risk Factor for COVID-19 Susceptibility. Physiological Reviews, 2020, 100, 1065-1075.	13.1	308
47	Hyperoxia causes angiopoietin 2â€“mediated acute lung injury and necrotic cell death. Nature Medicine, 2006, 12, 1286-1293.	15.2	307
48	Mesenchymal stem cells enhance survival and bacterial clearance in murine<i>Escherichia coli</i>pneumonia. Thorax, 2012, 67, 533-539.	2.7	307
49	Polymorphonuclear leukocytes mediate <i>Staphylococcus aureus</i> Panton-Valentine leukocidin-induced lung inflammation and injury. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5587-5592.	3.3	306
50	Fas and Fas Ligand Are Up-Regulated in Pulmonary Edema Fluid and Lung Tissue of Patients with Acute Lung Injury and the Acute Respiratory Distress Syndrome. American Journal of Pathology, 2002, 161, 1783-1796.	1.9	299
51	Protein C and thrombomodulin in human acute lung injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2003, 285, L514-L521.	1.3	296
52	Keratinocyte and hepatocyte growth factors in the lung: roles in lung development, inflammation, and repair. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2002, 282, L924-L940.	1.3	293
53	Effect of Prone Positioning on Clinical Outcomes in Children With Acute Lung Injury. JAMA - Journal of the American Medical Association, 2005, 294, 229.	3.8	289
54	Prognostic and Pathogenetic Value of Combining Clinical and Biochemical Indices in Patients With Acute Lung Injury. Chest, 2010, 137, 288-296.	0.4	287

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55	Distinct Molecular Phenotypes of Direct vs Indirect ARDS in Single-Center and Multicenter Studies. Chest, 2015, 147, 1539-1548.	0.4	283
56	Human mesenchymal stem cells reduce mortality and bacteremia in gram-negative sepsis in mice in part by enhancing the phagocytic activity of blood monocytes. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2012, 302, L1003-L1013.	1.3	278
57	Pathogenesis of Acute Respiratory Distress Syndrome. Seminars in Respiratory and Critical Care Medicine, 2019, 40, 031-039.	0.8	276
58	Neutrophils and their FcÂ receptors are essential in a mouse model of transfusion-related acute lung injury. Journal of Clinical Investigation, 2006, 116, 1615-1623.	3.9	273
59	Regulation and Repair of the Alveolar-Capillary Barrier in Acute Lung Injury. Annual Review of Physiology, 2013, 75, 593-615.	5.6	266
60	Significance of Von Willebrand Factor in Septic and Nonseptic Patients with Acute Lung Injury. American Journal of Respiratory and Critical Care Medicine, 2004, 170, 766-772.	2.5	265
61	Randomized Clinical Trial of Activated Protein C for the Treatment of Acute Lung Injury. American Journal of Respiratory and Critical Care Medicine, 2008, 178, 618-623.	2.5	263
62	Lung Overexpression of the Vascular Endothelial Growth Factor Gene Induces Pulmonary Edema. American Journal of Respiratory Cell and Molecular Biology, 2000, 22, 657-664.	1.4	260
63	Treatment for severe acute respiratory distress syndrome from COVID-19. Lancet Respiratory Medicine,the, 2020, 8, 433-434.	5.2	254
64	Integrating host response and unbiased microbe detection for lower respiratory tract infection diagnosis in critically ill adults. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E12353-E12362.	3.3	249
65	Severity scoring of lung oedema on the chest radiograph is associated with clinical outcomes in ARDS. Thorax, 2018, 73, 840-846.	2.7	244
66	Trauma-associated lung injury differs clinically and biologically from acute lung injury due to other clinical disorders*. Critical Care Medicine, 2007, 35, 2243-2250.	0.4	232
67	Allogeneic Human Mesenchymal Stem Cells Restore Epithelial Protein Permeability in Cultured Human Alveolar Type II Cells by Secretion of Angiopoietin-1*. Journal of Biological Chemistry, 2010, 285, 26211-26222.	1.6	230
68	Pulmonary toxicity of e-cigarettes. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 313, L193-L206.	1.3	225
69	Latent class analysis of ARDS subphenotypes: a secondary analysis of the statins for acutely injured lungs from sepsis (SAILS) study. Intensive Care Medicine, 2018, 44, 1859-1869.	3.9	223
70	Mesenchymal stem cells: mechanisms of potential therapeutic benefit in ARDS and sepsis. Lancet Respiratory Medicine,the, 2014, 2, 1016-1026.	5.2	222
71	Simvastatin Decreases Lipopolysaccharide-induced Pulmonary Inflammation in Healthy Volunteers. American Journal of Respiratory and Critical Care Medicine, 2009, 179, 1107-1114.	2.5	221
72	Plasma Angiopoietin-2 Predicts the Onset of Acute Lung Injury in Critically Ill Patients. American Journal of Respiratory and Critical Care Medicine, 2013, 187, 736-742.	2.5	220

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73	Racial and ethnic disparities in mortality from acute lung injury*. Critical Care Medicine, 2009, 37, 1-6.	0.4	218
74	Clinical trials in acute respiratory distress syndrome: challenges and opportunities. Lancet Respiratory Medicine,the, 2017, 5, 524-534.	5.2	213
75	Heterogeneous gene expression signatures correspond to distinct lung pathologies and biomarkers of disease severity in idiopathic pulmonary fibrosis. Thorax, 2015, 70, 48-56.	2.7	207
76	Global absence and targeting of protective immune states in severe COVID-19. Nature, 2021, 591, 124-130.	13.7	206
77	Local lung hypoxia determines epithelial fate decisions during alveolar regeneration. Nature Cell Biology, 2017, 19, 904-914.	4.6	202
78	Biomarkers in Acute Lung Injury: Insights into the Pathogenesis of Acute Lung Injury. Critical Care Clinics, 2011, 27, 355-377.	1.0	199
79	Nonventilatory Treatments for Acute Lung Injury and ARDS. Chest, 2007, 131, 913-920.	0.4	195
80	Plasma angiopoietin-2 in clinical acute lung injury. Critical Care Medicine, 2012, 40, 1731-1737.	0.4	194
81	Pharmacotherapy of Acute Lung Injury and the Acute Respiratory Distress Syndrome. Journal of Intensive Care Medicine, 2006, 21, 119-143.	1.3	192
82	Physiologic Analysis and Clinical Performance of the Ventilatory Ratio in Acute Respiratory Distress Syndrome. American Journal of Respiratory and Critical Care Medicine, 2019, 199, 333-341.	2.5	186
83	Assessment of lungs rejected for transplantation and implications for donor selection. Lancet, The, 2002, 360, 619-620.	6.3	181
84	Elevated plasma levels of soluble TNF receptors are associated with morbidity and mortality in patients with acute lung injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2005, 288, L426-L431.	1.3	180
85	F<scp>ifty</scp> Y<scp>ears</scp> <scp>of</scp> R<scp>esearch</scp> <scp>in</scp> ARDS.Cell-based Therapy for Acute Respiratory Distress Syndrome. Biology and Potential Therapeutic Value. American Journal of Respiratory and Critical Care Medicine, 2017, 196, 266-273.	2.5	179
86	Human mesenchymal stromal cells reduce influenza A H5N1-associated acute lung injury in vitro and in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3621-3626.	3.3	174
87	Timing of Intubation and Clinical Outcomes in Adults With Acute Respiratory Distress Syndrome*. Critical Care Medicine, 2016, 44, 120-129.	0.4	170
88	Biomarkers of lung epithelial injury and inflammation distinguish severe sepsis patients with acute respiratory distress syndrome. Critical Care, 2013, 17, R253.	2.5	169
89	Alveolar macrophages contribute to alveolar barrier dysfunction in ventilator-induced lung injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2006, 291, L1191-L1198.	1.3	166
90	Therapeutic strategies for severe acute lung injury. Critical Care Medicine, 2010, 38, 1644-1650.	0.4	166

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91	Therapeutic effects of human mesenchymal stem cell microvesicles in an ex vivo perfused human lung injured with severe<i>E. coli</i>pneumonia. Thorax, 2019, 74, 43-50.	2.7	166
92	Development and validation of parsimonious algorithms to classify acute respiratory distress syndrome phenotypes: a secondary analysis of randomised controlled trials. Lancet Respiratory Medicine,the, 2020, 8, 247-257.	5.2	165
93	Activation of the Î±7 nAChR Reduces Acid-Induced Acute Lung Injury in Mice and Rats. American Journal of Respiratory Cell and Molecular Biology, 2007, 37, 186-192.	1.4	160
94	Interleukin-1Î² Decreases Expression of the Epithelial Sodium Channel Î±-Subunit in Alveolar Epithelial Cells via a p38 MAPK-dependent Signaling Pathway*. Journal of Biological Chemistry, 2005, 280, 18579-18589.	1.6	158
95	Transforming Growth Factor-Î²1 Decreases Expression of the Epithelial Sodium Channel Î±ENaC and Alveolar Epithelial Vectorial Sodium and Fluid Transport via an ERK1/2-dependent Mechanism. Journal of Biological Chemistry, 2003, 278, 43939-43950.	1.6	151
96	Therapeutic Potential of Mesenchymal Stem Cells for Severe Acute Lung Injury. Chest, 2010, 138, 965-972.	0.4	151
97	Negative-Pressure Pulmonary Edema. Chest, 2016, 150, 927-933.	0.4	147
98	Hypoxia and Î²2-Agonists Regulate Cell Surface Expression of the Epithelial Sodium Channel in Native Alveolar Epithelial Cells. Journal of Biological Chemistry, 2002, 277, 47318-47324.	1.6	145
99	Mesenchymal stem cells for acute lung injury: Preclinical evidence. Critical Care Medicine, 2010, 38, S569-S573.	0.4	144
100	One-year mortality and predictors of death among hospital survivors of acute respiratory distress syndrome. Intensive Care Medicine, 2014, 40, 388-396.	3.9	144
101	Limited cross-variant immunity from SARS-CoV-2 Omicron without vaccination. Nature, 2022, 607, 351-355.	13.7	143
102	Contribution of CFTR to apical-basolateral fluid transport in cultured human alveolar epithelial type II cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2006, 290, L242-L249.	1.3	142
103	Acute Lung Injury in Patients With Traumatic Injuries: Utility of a Panel of Biomarkers for Diagnosis and Pathogenesis. Journal of Trauma, 2010, 68, 1121-1127.	2.3	139
104	von Willebrand factor antigen is an independent marker of poor outcome in patients with early acute lung injury. Critical Care Medicine, 2001, 29, 2325-2331.	0.4	138
105	Biomarkers of inflammation, coagulation and fibrinolysis predict mortality in acute lung injury. Critical Care, 2008, 12, R41.	2.5	138
106	Increased expression of neutrophil-related genes in patients with early sepsis-induced ARDS. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 308, L1102-L1113.	1.3	137
107	Predictive and pathogenetic value of plasma biomarkers for acute kidney injury in patients with acute lung injury. Critical Care Medicine, 2007, 35, 2755-61.	0.4	137
108	NADPH Oxidase-1 Plays a Crucial Role in Hyperoxia-induced Acute Lung Injury in Mice. American Journal of Respiratory and Critical Care Medicine, 2009, 180, 972-981.	2.5	134

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109	Resolution of Pulmonary Edema. Thirty Years of Progress. American Journal of Respiratory and Critical Care Medicine, 2014, 189, 1301-1308.	2.5	134
110	Human mesenchymal stem cells reduce the severity of acute lung injury in a sheep model of bacterial pneumonia. Thorax, 2014, 69, 819-825.	2.7	133
111	The alveolar epithelium can initiate the extrinsic coagulation cascade through expression of tissue factor. Thorax, 2007, 62, 608-616.	2.7	132
112	Human Mesenchymal Stem (Stromal) Cells Promote the Resolution of Acute Lung Injury in Part through Lipoxin A4. Journal of Immunology, 2015, 195, 875-881.	0.4	132
113	Predictive and pathogenetic value of plasma biomarkers for acute kidney injury in patients with acute lung injury*. Critical Care Medicine, 2007, 35, 2755-2761.	0.4	131
114	Potential application of mesenchymal stem cells in acute lung injury. Expert Opinion on Biological Therapy, 2009, 9, 1259-1270.	1.4	131
115	Quantifying unintended exposure to high tidal volumes from breath stacking dyssynchrony in ARDS: the BREATHE criteria. Intensive Care Medicine, 2016, 42, 1427-1436.	3.9	130
116	Concise Review: Mesenchymal Stem (Stromal) Cells: Biology and Preclinical Evidence for Therapeutic Potential for Organ Dysfunction Following Trauma or Sepsis. Stem Cells, 2017, 35, 316-324.	1.4	130
117	Active and Passive Cigarette Smoking and Acute Lung Injury after Severe Blunt Trauma. American Journal of Respiratory and Critical Care Medicine, 2011, 183, 1660-1665.	2.5	128
118	Metabolomic Derangements Are Associated with Mortality in Critically Ill Adult Patients. PLoS ONE, 2014, 9, e87538.	1.1	127
119	Invited Review: Alveolar edema fluid clearance in the injured lung. Journal of Applied Physiology, 2002, 93, 2207-2213.	1.2	121
120	Predictive and pathogenetic value of plasma biomarkers for acute kidney injury in patients with acute lung injury *. Critical Care Medicine, 2007, 35, 2755-2761.	0.4	120
121	Integrin Î±vÎ²5 Regulates Lung Vascular Permeability and Pulmonary Endothelial Barrier Function. American Journal of Respiratory Cell and Molecular Biology, 2007, 36, 377-386.	1.4	119
122	Initial severity of metabolic acidosis predicts the development of acute lung injury in severely traumatized patients. Critical Care Medicine, 2000, 28, 125-131.	0.4	118
123	Heterogeneity in sepsis: new biological evidence with clinical applications. Critical Care, 2019, 23, 80.	2.5	118
124	Mesenchymal Stem Cells and Idiopathic Pulmonary Fibrosis. Potential for Clinical Testing. American Journal of Respiratory and Critical Care Medicine, 2013, 188, 133-140.	2.5	116
125	Ventilator-induced lung injury: in vivo and in vitro mechanisms. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2002, 283, L678-L682.	1.3	111
126	Postobstructive Pulmonary Edema. Chest, 2007, 131, 1742-1746.	0.4	111

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127	Soluble intercellular adhesion molecule-1 and clinical outcomes in patients with acute lung injury. Intensive Care Medicine, 2009, 35, 248-257.	3.9	108
128	Clinician-Family Communication About Patientsâ€™ Values and Preferences in Intensive Care Units. JAMA Internal Medicine, 2019, 179, 676.	2.6	108
129	Human alveolar type 2 epithelium transdifferentiates into metaplastic KRT5+ basal cells. Nature Cell Biology, 2022, 24, 10-23.	4.6	108
130	Pulmonary Dead Space Fraction and Pulmonary Artery Systolic Pressure as Early Predictors of Clinical Outcome in Acute Lung Injury. Chest, 2007, 132, 836-842.	0.4	107
131	Physiological and biochemical markers of alveolar epithelial barrier dysfunction in perfused human lungs. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2007, 293, L52-L59.	1.3	106
132	miR-34 miRNAs Regulate Cellular Senescence in Type II Alveolar Epithelial Cells of Patients with Idiopathic Pulmonary Fibrosis. PLoS ONE, 2016, 11, e0158367.	1.1	106
133	Phenotypes and personalized medicine in the acute respiratory distress syndrome. Intensive Care Medicine, 2020, 46, 2136-2152.	3.9	106
134	Use of risk reclassification with multiple biomarkers improves mortality prediction in acute lung injury. Critical Care Medicine, 2011, 39, 711-717.	0.4	105
135	Alveolar Epithelial Ion and Fluid Transport. American Journal of Respiratory Cell and Molecular Biology, 2006, 35, 10-19.	1.4	104
136	Conditioned media from mesenchymal stromal cells restore sodium transport and preserve epithelial permeability in an in vitro model of acute alveolar injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2014, 306, L975-L985.	1.3	101
137	Dexamethasone in hospitalised patients with COVID-19: addressing uncertainties. Lancet Respiratory Medicine,the, 2020, 8, 1170-1172.	5.2	98
138	Keratinocyte growth factor can enhance alveolar epithelial repair by nonmitogenic mechanisms. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2002, 283, L163-L169.	1.3	97
139	Keratinocyte Growth Factor Promotes Epithelial Survival and Resolution in a Human Model of Lung Injury. American Journal of Respiratory and Critical Care Medicine, 2014, 189, 1520-1529.	2.5	96
140	Alveolar epithelial fluid transport can be simultaneously upregulated by both KGF and Î²-agonist therapy. Journal of Applied Physiology, 1999, 87, 1852-1860.	1.2	95
141	Cigarette Smoke Exposure and the Acute Respiratory Distress Syndrome*. Critical Care Medicine, 2015, 43, 1790-1797.	0.4	92
142	Elevated Levels of the Receptor for Advanced Glycation End Products, a Marker of Alveolar Epithelial Type I Cell Injury, Predict Impaired Alveolar Fluid Clearance in Isolated Perfused Human Lungs. Chest, 2009, 135, 269-275.	0.4	90
143	Clinical review: Early treatment of acute lung injury - paradigm shift toward prevention and treatment prior to respiratory failure. Critical Care, 2012, 16, 223.	2.5	90
144	Diagnostic workup for ARDS patients. Intensive Care Medicine, 2016, 42, 674-685.	3.9	89

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145	Plasma angiopoietin-2 as a potential causal marker in sepsis-associated ARDS development: evidence from Mendelian randomization and mediation analysis. Intensive Care Medicine, 2018, 44, 1849-1858.	3.9	89
146	Secondary peritonitis: principles of diagnosis and intervention. BMJ: British Medical Journal, 2018, 361, k1407.	2.4	88
147	Advances in Critical Care for the Nephrologist. Clinical Journal of the American Society of Nephrology: CJASN, 2008, 3, 578-586.	2.2	87
148	Novel Role of the Human Alveolar Epithelium in Regulating Intra-Alveolar Coagulation. American Journal of Respiratory Cell and Molecular Biology, 2007, 36, 497-503.	1.4	85
149	Antiâ€inflammatory effects of Î²₂adrenergic receptor agonists in experimental acute lung injury. FASEB Journal, 2012, 26, 2137-2144.	0.2	84
150	Influenza causes prolonged disruption of the alveolar-capillary barrier in mice unresponsive to mesenchymal stem cell therapy. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2014, 307, L395-L406.	1.3	84
151	Plasma sRAGE is independently associated with increased mortality in ARDS: a meta-analysis of individual patient data. Intensive Care Medicine, 2018, 44, 1388-1399.	3.9	82
152	Update on the Features and Measurements of Experimental Acute Lung Injury in Animals: An Official American Thoracic Society Workshop Report. American Journal of Respiratory Cell and Molecular Biology, 2022, 66, e1-e14.	1.4	82
153	Inhibiting Brutonâ€™s tyrosine kinase rescues mice from lethal influenza-induced acute lung injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2018, 315, L52-L58.	1.3	81
154	Mesenchymal Stem Cells and Acute Lung Injury. Critical Care Clinics, 2011, 27, 719-733.	1.0	80
155	Early Acute Lung Injury. Critical Care Medicine, 2013, 41, 1929-1937.	0.4	80
156	The Berlin definition of acute respiratory distress syndrome: should patients receiving high-flow nasal oxygen be included?. Lancet Respiratory Medicine,the, 2021, 9, 933-936.	5.2	80
157	Claudin-4 Levels Are Associated with Intact Alveolar Fluid Clearance in Human Lungs. American Journal of Pathology, 2011, 179, 1081-1087.	1.9	79
158	The Association Between Physiologic Dead-Space Fraction and Mortality in Subjects With ARDS Enrolled in a Prospective Multi-Center Clinical Trial. Respiratory Care, 2014, 59, 1611-1618.	0.8	78
159	Mesenchymal stem cell-derived extracellular vesicles attenuate pulmonary vascular permeability and lung injury induced by hemorrhagic shock and trauma. Journal of Trauma and Acute Care Surgery, 2018, 84, 245-256.	1.1	76
160	Plasma Receptor for Advanced Glycation End-products Predicts Duration of ICU Stay and Mechanical Ventilation in Patients After Lung Transplantation. Journal of Heart and Lung Transplantation, 2007, 26, 675-680.	0.3	74
161	Plasma angiopoietin-2 outperforms other markers of endothelial injury in prognosticating pediatric ARDS mortality. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 310, L224-L231.	1.3	74
162	Acute respiratory distress syndrome-attributable mortality in critically ill patients with sepsis. Intensive Care Medicine, 2020, 46, 1222-1231.	3.9	74

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163	Exacerbation of Acute Pulmonary Edema During Assisted Mechanical Ventilation Using a Low-Tidal Volume, Lung-Protective Ventilator Strategy. Chest, 1999, 116, 1826-1832.	0.4	73
164	Bench-to-bedside review: the role of the alveolar epithelium in the resolution of pulmonary edema in acute lung injury. Critical Care, 2004, 8, 469.	2.5	73
165	Acute Lung Injury Edema Fluid Decreases Net Fluid Transport across Human Alveolar Epithelial Type II Cells. Journal of Biological Chemistry, 2007, 282, 24109-24119.	1.6	73
166	Elevated PAI-1 is associated with poor clinical outcomes in pediatric patients with acute lung injury. Intensive Care Medicine, 2010, 36, 157-163.	3.9	73
167	Genome Wide Association Identifies PPFIA1 as a Candidate Gene for Acute Lung Injury Risk Following Major Trauma. PLoS ONE, 2012, 7, e28268.	1.1	73
168	Prognostic value of the pulmonary dead-space fraction during the first 6 days of acute respiratory distress syndrome. Respiratory Care, 2004, 49, 1008-14.	0.8	71
169	Protective effect of endogenous Î²-adrenergic tone on lung fluid balance in acute bacterial pneumonia in mice. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2006, 290, L769-L776.	1.3	70
170	CD47 Deficiency Protects Mice from Lipopolysaccharide-Induced Acute Lung Injury and <i>Escherichia coli</i> Pneumonia. Journal of Immunology, 2008, 180, 6947-6953.	0.4	70
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