Nuala J Meyer

List of Publications by Year
in descending order

119 papers	8,615 citations	71102 41 h-index	54911 84 g-index
134 all docs	134 docs citations	134 times ranked	15425 citing authors

#	Article	IF	Citations
1	Deep immune profiling of COVID-19 patients reveals distinct immunotypes with therapeutic implications. Science, 2020, 369, .	12.6	1,280
2	Comprehensive mapping of immune perturbations associated with severe COVID-19. Science Immunology, 2020, 5, .	11.9	677
3	Inflammasome-regulated Cytokines Are Critical Mediators of Acute Lung Injury. American Journal of Respiratory and Critical Care Medicine, 2012, 185, 1225-1234.	5.6	469
4	Acute respiratory distress syndrome. Lancet, The, 2021, 398, 622-637.	13.7	426
5	CD8+ T cells contribute to survival in patients with COVID-19 and hematologic cancer. Nature Medicine, 2021, 27, 1280-1289.	30.7	365
6	Circulating Mitochondrial DNA in Patients in the ICU as a Marker of Mortality: Derivation and Validation. PLoS Medicine, 2013, 10, e1001577.	8.4	354
7	Seasonal human coronavirus antibodies are boosted upon SARS-CoV-2 infection but not associated with protection. Cell, 2021, 184, 1858-1864.e10.	28.9	332
8	PCSK9 is a critical regulator of the innate immune response and septic shock outcome. Science Translational Medicine, 2014, 6, 258ra143.	12.4	287
9	New-onset IgG autoantibodies in hospitalized patients with COVID-19. Nature Communications, 2021, 12, 5417.	12.8	286
10	Deep immune profiling of MIS-C demonstrates marked but transient immune activation compared with adult and pediatric COVID-19. Science Immunology, 2021, 6, .	11.9	152
11	Redefining critical illness. Nature Medicine, 2022, 28, 1141-1148.	30.7	136
12	Meta-analysis of Dense Genecentric Association Studies Reveals Common and Uncommon Variants Associated with Height. American Journal of Human Genetics, 2011, 88, 6-18.	6.2	122
13	ANGPT2 Genetic Variant Is Associated with Trauma-associated Acute Lung Injury and Altered Plasma Angiopoietin-2 Isoform Ratio. American Journal of Respiratory and Critical Care Medicine, 2011, 183, 1344-1353.	5.6	107
14	A Multibiomarker-Based Outcome Risk Stratification Model for Adult Septic Shock*. Critical Care Medicine, 2014, 42, 781-789.	0.9	107
15	DNA binding to TLR9 expressed by red blood cells promotes innate immune activation and anemia. Science Translational Medicine, 2021, 13, eabj1008.	12.4	90
16	Red Blood Cells Induce Necroptosis of Lung Endothelial Cells and Increase Susceptibility to Lung Inflammation. American Journal of Respiratory and Critical Care Medicine, 2014, 190, 1243-1254.	5.6	89
17	Diagnostic workup for ARDS patients. Intensive Care Medicine, 2016, 42, 674-685.	8.2	89
18	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.	8.2	89

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19	African American race, obesity, and blood product transfusion are risk factors for acute kidney injury in critically ill trauma patients. Journal of Critical Care, 2012, 27, 496-504.	2.2	88
20	Advancing precision medicine for acute respiratory distress syndrome. Lancet Respiratory Medicine,the, 2022, 10, 107-120.	10.7	83
21	Circulating heparan sulfate fragments mediate septic cognitive dysfunction. Journal of Clinical Investigation, 2019, 129, 1779-1784.	8.2	79
22	Heterogeneous Phenotypes of Acute Respiratory Distress Syndrome after Major Trauma. Annals of the American Thoracic Society, 2014, 11, 728-736.	3.2	77
23	IL1RN Coding Variant Is Associated with Lower Risk of Acute Respiratory Distress Syndrome and Increased Plasma IL-1 Receptor Antagonist. American Journal of Respiratory and Critical Care Medicine, 2013, 187, 950-959.	5.6	75
24	Signatures of COVID-19 Severity and Immune Response in the Respiratory Tract Microbiome. MBio, 2021, 12, e0177721.	4.1	74
25	Genome Wide Association Identifies PPFIA1 as a Candidate Gene for Acute Lung Injury Risk Following Major Trauma. PLoS ONE, 2012, 7, e28268.	2.5	73
26	Mortality Benefit of Recombinant Human Interleukin-1 Receptor Antagonist for Sepsis Varies by Initial Interleukin-1 Receptor Antagonist Plasma Concentration*. Critical Care Medicine, 2018, 46, 21-28.	0.9	72
27	The long noncoding RNA landscape in hypoxic and inflammatory renal epithelial injury. American Journal of Physiology - Renal Physiology, 2015, 309, F901-F913.	2.7	70
28	Variation inPTX3Is Associated with Primary Graft Dysfunction after Lung Transplantation. American Journal of Respiratory and Critical Care Medicine, 2012, 186, 546-552.	5.6	68
29	Plasma Mitochondrial DNA Levels Are Associated With ARDS in Trauma and Sepsis Patients. Chest, 2020, 157, 67-76.	0.8	64
30	Novel translational approaches to the search for precision therapies for acute respiratory distress syndrome. Lancet Respiratory Medicine,the, 2017, 5, 512-523.	10.7	62
31	ABO Blood Type A Is Associated With Increased Risk of ARDS in Whites Following Both Major Trauma and Severe Sepsis. Chest, 2014, 145, 753-761.	0.8	61
32	GADD45a is a novel candidate gene in inflammatory lung injury via influences on Akt signaling. FASEB Journal, 2009, 23, 1325-1337.	0.5	60
33	Acute kidney injury subphenotypes based on creatinine trajectory identifies patients at increased risk of death. Critical Care, 2016, 20, 372.	5.8	58
34	Circulating markers of endothelial and alveolar epithelial dysfunction are associated with mortality in pediatric acute respiratory distress syndrome. Intensive Care Medicine, 2016, 42, 1137-1145.	8.2	56
35	Distinct and replicable genetic risk factors for acute respiratory distress syndrome of pulmonary or extrapulmonary origin. Journal of Medical Genetics, 2012, 49, 671-680.	3.2	53
36	Admission plasma levels of the neuronal injury marker neuron-specific enolase are associated with mortality and delirium in sepsis. Journal of Critical Care, 2016, 36, 18-23.	2.2	53

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37	Quantitative peripheral muscle ultrasound in sepsis: Muscle area superior to thickness. Journal of Critical Care, 2018, 47, 324-330.	2.2	53
38	Genetic Heterogeneity and Risk of Acute Respiratory Distress Syndrome. Seminars in Respiratory and Critical Care Medicine, 2013, 34, 459-474.	2.1	52
39	F<scp>ifty</scp> Y<scp>ears of</scp> R<scp>esearch in</scp> ARDS.Genomic Contributions and Opportunities. American Journal of Respiratory and Critical Care Medicine, 2017, 196, 1113-1121.	5.6	52
40	A randomized controlled study of convalescent plasma for individuals hospitalized with COVID-19 pneumonia. Journal of Clinical Investigation, 2021, 131, .	8.2	51
41	Genome-Wide Association Study in African Americans with Acute Respiratory Distress Syndrome Identifies the Selectin P Ligand Gene as a Risk Factor. American Journal of Respiratory and Critical Care Medicine, 2018, 197, 1421-1432.	5.6	50
42	Plasma sRAGE Acts as a Genetically Regulated Causal Intermediate in Sepsis-associated Acute Respiratory Distress Syndrome. American Journal of Respiratory and Critical Care Medicine, 2020, 201, 47-56.	5.6	49
43	APOL1 risk variants in individuals of African genetic ancestry drive endothelial cell defects that exacerbate sepsis. Immunity, 2021, 54, 2632-2649.e6.	14.3	48
44	Neutropenic sepsis is associated with distinct clinical and biological characteristics: a cohort study of severe sepsis. Critical Care, 2016, 20, 222.	5.8	46
45	Association of vancomycin plus piperacillinâ€“tazobactam with early changes in creatinine versus cystatin C in critically ill adults: a prospective cohort study. Intensive Care Medicine, 2022, 48, 1144-1155.	8.2	43
46	A Functional Synonymous Coding Variant in theIL1RNGene Is Associated with Survival in Septic Shock. American Journal of Respiratory and Critical Care Medicine, 2014, 190, 656-664.	5.6	42
47	E-Cigarette or Vaping Product Useâ€“associated Lung Injury: Developing a Research Agenda. An NIH Workshop Report. American Journal of Respiratory and Critical Care Medicine, 2020, 202, 795-802.	5.6	42
48	Wading into the Genomic Pool to Unravel Acute Lung Injury Genetics. Proceedings of the American Thoracic Society, 2007, 4, 69-76.	3.5	41
49	The ABO Histo-Blood Group and AKI in Critically Ill Patients with Trauma or Sepsis. Clinical Journal of the American Society of Nephrology: CJASN, 2015, 10, 1911-1920.	4.5	41
50	Deep learning to detect acute respiratory distress syndrome on chest radiographs: a retrospective study with external validation. The Lancet Digital Health, 2021, 3, e340-e348.	12.3	39
51	Erythrocytes identify complement activation in patients with COVID-19. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2021, 321, L485-L489.	2.9	39
52	Cytomegalovirus Latent Infection is Associated with an Increased Risk of COVID-19-Related Hospitalization. Journal of Infectious Diseases, 2022, 226, 463-473.	4.0	39
53	Sepsis-associated acute respiratory distress syndrome in individuals of European ancestry: a genome-wide association study. Lancet Respiratory Medicine,the, 2020, 8, 258-266.	10.7	38
54	Myeloperoxidase-derived 2-chlorofatty acids contribute to human sepsis mortality via acute respiratory distress syndrome. JCI Insight, 2017, 2, .	5.0	38

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55	A Research Agenda for Precision Medicine in Sepsis and Acute Respiratory Distress Syndrome: An Official American Thoracic Society Research Statement. American Journal of Respiratory and Critical Care Medicine, 2021, 204, 891-901.	5.6	38
56	Innate lymphoid cells and COVID-19 severity in SARS-CoV-2 infection. ELife, 2022, 11, .	6.0	37
57	Epidemiology and outcomes in patients with severe sepsis admitted to the hospital wards. Journal of Critical Care, 2015, 30, 78-84.	2.2	36
58	COVID-19â€“associated Acute Respiratory Distress Syndrome Clarified: A Vascular Endotype?. American Journal of Respiratory and Critical Care Medicine, 2020, 202, 750-753.	5.6	36
59	Oxidant stress regulatory genetic variation in recipients and donors contributes to risk of primary graft dysfunction after lung transplantation. Journal of Thoracic and Cardiovascular Surgery, 2015, 149, 596-602.e3.	0.8	35
60	Precision medicine in acute respiratory distress syndrome: workshop report and recommendations for future research. European Respiratory Review, 2021, 30, 200317.	7.1	34
61	Role of Growth Arrest and DNA Damageâ€“inducible Î± in Akt Phosphorylation and Ubiquitination after Mechanical Stress-induced Vascular Injury. American Journal of Respiratory and Critical Care Medicine, 2011, 184, 1030-1040.	5.6	33
62	Genetic Variation in the Prostaglandin E₂ Pathway Is Associated with Primary Graft Dysfunction. American Journal of Respiratory and Critical Care Medicine, 2014, 189, 567-575.	5.6	32
63	Which Patients With ARDS Benefit From Lung Biopsy?. Chest, 2015, 148, 1073-1082.	0.8	32
64	Diagnostic biomarkers to differentiate sepsis from cytokine release syndrome in critically ill children. Blood Advances, 2020, 4, 5174-5183.	5.2	30
65	Elevated Plasma Angiopoietin-2 Levels and Primary Graft Dysfunction after Lung Transplantation. PLoS ONE, 2012, 7, e51932.	2.5	28
66	Brain dysfunction in critically ill patients--the intensive care unit and beyond. Critical Care, 2006, 10, 223.	5.8	26
67	Plasma receptor interacting protein kinase-3 levels are associated with acute respiratory distress syndrome in sepsis and trauma: a cohort study. Critical Care, 2019, 23, 235.	5.8	26
68	The ABO histo-blood group, endothelial activation, and acute respiratory distress syndrome risk in critical illness. Journal of Clinical Investigation, 2021, 131, .	8.2	26
69	Signaling Through FcÎ³RIIA and the C5a-C5aR Pathway Mediate Platelet Hyperactivation in COVID-19. Frontiers in Immunology, 2022, 13, 834988.	4.8	26
70	Plasma sTNFR1 and IL8 for prognostic enrichment in sepsis trials: a prospective cohort study. Critical Care, 2019, 23, 400.	5.8	22
71	Severe Impairment of Microcirculatory Perfused Vessel Density Is Associated With Postoperative Lactate and Acute Organ Injury After Cardiac Surgery. Journal of Cardiothoracic and Vascular Anesthesia, 2021, 35, 106-115.	1.3	21
72	Integrative omics provide biological and clinical insights into acute respiratory distress syndrome. Intensive Care Medicine, 2021, 47, 761-771.	8.2	19

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73	Integrative genomics identifies 7p11.2 as a novel locus for fever and clinical stress response in humans. Human Molecular Genetics, 2015, 24, 1801-1812.	2.9	18
74	Relative Adrenal Insufficiency in the ICU: Can We at Least Make the Diagnosis?. American Journal of Respiratory and Critical Care Medicine, 2006, 174, 1282-1284.	5.6	17
75	Beyond Single-Nucleotide Polymorphisms. Clinics in Chest Medicine, 2014, 35, 673-684.	2.1	17
76	Covid-19 controversies: the tocilizumab chapter. BMJ, The, 2021, 372, n244.	6.0	17
77	Clinical trial design during and beyond the pandemic: the I-SPY COVID trial. Nature Medicine, 2022, 28, 9-11.	30.7	17
78	The association of early transfusion with acute lung injury in patients with severe injury. Journal of Trauma and Acute Care Surgery, 2012, 73, 825-831.	2.1	15
79	SNP-set analysis replicates acute lung injury genetic risk factors. BMC Medical Genetics, 2012, 13, 52.	2.1	15
80	Low Plasma Levels of Adiponectin Do Not Explain Acute Respiratory Distress Syndrome Risk: a Prospective Cohort Study of Patients with Severe Sepsis. Critical Care, 2016, 20, 71.	5.8	15
81	I-SPY COVID adaptive platform trial for COVID-19 acute respiratory failure: rationale, design and operations. BMJ Open, 2022, 12, e060664.	1.9	15
82	Elevated Plasma Levels of Matrix Metalloproteinase-3 and Tissue-Inhibitor of Matrix Metalloproteinases-1 Associate With Organ Dysfunction and Mortality in Sepsis. Shock, 2022, 57, 41-47.	2.1	14
83	Identification of novel neutrophil very long chain plasmalogen molecular species and their myeloperoxidase mediated oxidation products in human sepsis. Redox Biology, 2021, 48, 102208.	9.0	12
84	Novel variants in the PRDX6 Gene and the risk of Acute Lung Injury following major trauma. BMC Medical Genetics, 2011, 12, 77.	2.1	11
85	Causal Genetic Inference Using Haplotypes as Instrumental Variables. Genetic Epidemiology, 2016, 40, 35-44.	1.3	11
86	Multisystem Inflammation and Organ Dysfunction After BNT162b2 Messenger RNA Coronavirus Disease 2019 Vaccination. , 2021, 3, e0578.		11
87	Future clinical applications of genomics for acute respiratory distress syndrome. Lancet Respiratory Medicine,the, 2013, 1, 793-803.	10.7	9
88	Comparing the prognostic performance of ASSIST to interleukin-6 and procalcitonin in patients with severe sepsis or septic shock. Biomarkers, 2015, 20, 132-135.	1.9	9
89	MUC5B Promoter Polymorphism and Development of Acute Respiratory Distress Syndrome. American Journal of Respiratory and Critical Care Medicine, 2018, 198, 1342-1345.	5.6	9
90	Plasma Insulin-like Growth Factor Binding Protein 7 Contributes Causally to ARDS 28-Day Mortality. Chest, 2021, 159, 1007-1018.	0.8	9

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91	New Insights into Clinical and Mechanistic Heterogeneity of the Acute Respiratory Distress Syndrome: Summary of the Aspen Lung Conference 2021. American Journal of Respiratory Cell and Molecular Biology, 2022, 67, 284-308.	2.9	9
92	Pulmonary and Critical Care Considerations for e-Cigarette, or Vaping, Product Use-Associated Lung Injury. Chest, 2022, 162, 256-264.	0.8	8
93	Troponin I: A New Marker of Sepsis-induced Hypoperfusion?. Annals of the American Thoracic Society, 2019, 16, 552-553.	3.2	7
94	HDL Cholesterol: A â€œPathogen Lipid Sinkâ€•for Sepsis?. American Journal of Respiratory and Critical Care Medicine, 2019, 199, 812-814.	5.6	7
95	Plasmalogen Loss in Sepsis and SARS-CoV-2 Infection. Frontiers in Cell and Developmental Biology, 0, 10, .	3.7	7
96	A cortactin CTTN coding SNP contributes to lung vascular permeability and inflammatory disease severity in African descent subjects. Translational Research, 2022, 244, 56-74.	5.0	6
97	Evolving Immunosuppressive Regimens for Lung Transplant Recipients. Seminars in Respiratory and Critical Care Medicine, 2006, 27, 470-479.	2.1	5
98	Pattern recognition in ARDS: a crucial first step toward personalised treatment. Lancet Respiratory Medicine,the, 2014, 2, 594-595.	10.7	5
99	Early Plasma Nuclear DNA, Mitochondrial DNA, and Nucleosome Concentrations Are Associated With Acute Kidney Injury in Critically Ill Trauma Patients. , 2022, 4, e0663.		5
100	von Willebrand factor and angiopoietin-2. Critical Care Medicine, 2012, 40, 1966-1967.	0.9	4
101	Immune Stimulation With Recombinant Human Granulocyte Colonyâ€“Stimulating Factor for Coronavirus Disease 2019 (COVID-19)â€”Beware of Blind Spots. JAMA Internal Medicine, 2021, 181, 78.	5.1	4
102	The relationship between vitamin C or thiamine levels and outcomes for severe sepsis patients admitted to the ICU. Scientific Reports, 2021, 11, 15114.	3.3	4
103	Sizing up (or down) extravascular lung water as a predictor of outcome in acute lung injury/acute respiratory distress syndrome*. Critical Care Medicine, 2008, 36, 337-338.	0.9	3
104	Extracellular Superoxide Dismutase Haplotypes and Acute Lung Injury. American Journal of Respiratory and Critical Care Medicine, 2009, 179, 89-91.	5.6	3
105	Single Nucleotide Variant in FAS Associates With Organ Failure and Soluble Fas Cell Surface Death Receptor in Critical Illness. Critical Care Medicine, 2022, 50, e284-e293.	0.9	3
106	Genetics of Acute Respiratory Distress Syndrome. Critical Care Clinics, 2021, 37, 817-834.	2.6	3
107	Acute Tachypnea During Mechanical Ventilation in a 62-Year-Old Man With Multiple Myeloma Involving the Spinal Cord. Chest, 2006, 130, 616-619.	0.8	2
108	Finding a Needle in the Haystack. Critical Care Medicine, 2015, 43, 242-243.	0.9	2

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109	Precision Medicine in Critical Illness: Sepsis and Acute Respiratory Distress Syndrome. Respiratory Medicine, 2020, , 267-288.	0.1	2
110	Genome Wide Association (GWA) Identifies Functional Susceptibility Loci For Trauma-Associated Acute Lung Injury. , 2010, , .		1
111	1344: PLASMA RIP3, A REGULATOR OF NECROPTOSIS, IS ASSOCIATED WITH MORTALITY & ORGAN DYSFUNCTION IN SEPSIS. Critical Care Medicine, 2016, 44, 411-411.	0.9	1
112	Whatâ€™s in a Number? Platelet Count Dynamics as a Novel Mediator of Acute Respiratory Distress Syndrome Survival. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 1285-1287.	5.6	1
113	SNPing Away at the Genetic Risk for Acute Kidney Injury. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 416-418.	5.6	1
114	Genetics in the Prevention and Treatment of Sepsis. Respiratory Medicine, 2017, , 237-264.	0.1	1
115	Factors affecting biomarkers of endothelial and alveolar epithelial dysfunction: response to comments by Kyo et al.. Intensive Care Medicine, 2016, 42, 2113-2114.	8.2	0
116	Reply: Against Another Nonspecific Marker of Perfusion. Annals of the American Thoracic Society, 2019, 16, 1337-1338.	3.2	0
117	1779. Critical Care Medicine, 2019, 47, 863.	0.9	0
118	Preparedness Tested: Severe Cerebral Malaria Presenting as a High-Risk Person Under Investigation for Ebola Virus Disease at a US Hospital. Disaster Medicine and Public Health Preparedness, 2021, 15, 528-533.	1.3	0
119	Reply to: Physiology is Vital to Precision Medicine in ARDS and Sepsis. American Journal of Respiratory and Critical Care Medicine, 2022, , .	5.6	0