Charlotte Summers

List of Publications by Year
in descending order

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100	10,626	81434 41	46524 93
papers	citations	h-index	g-index

114	114	114	20965
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	RAND appropriateness panel to determine the applicability of UK guidelines on the management of acute respiratory distress syndrome (ARDS) and other strategies in the context of the COVID-19 pandemic. Thorax, 2022, 77, 129-135.	2.7	15
2	Acute kidney injury in patients hospitalized with COVID-19 from the ISARIC WHO CCP-UK Study: a prospective, multicentre cohort study. Nephrology Dialysis Transplantation, 2022, 37, 271-284.	0.4	48
3	Acute Respiratory Distress Syndrome in an African Intensive Care Unit Setting: A Prospective Study of Prevalence and Outcomes. Annals of the American Thoracic Society, 2022, 19, 691-694.	1.5	4
4	Hypoxia Increases the Potential for Neutrophil-mediated Endothelial Damage in Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine, 2022, 205, 903-916.	2.5	16
5	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
6	Common, low-frequency, rare, and ultra-rare coding variants contribute to COVID-19 severity. Human Genetics, 2022, 141, 147-173.	1.8	22
7	Elucidating mechanisms of genetic cross-disease associations at the PROCR vascular disease locus. Nature Communications, 2022, 13, 1222.	5.8	5
8	Towards a biological definition of ARDS: are treatable traits the solution?. Intensive Care Medicine Experimental, 2022, 10, 8.	0.9	32
9	Whole-genome sequencing reveals host factors underlying critical COVID-19. Nature, 2022, 607, 97-103.	13.7	174
10	Implementation of corticosteroids in treatment of COVID-19 in the ISARIC WHO Clinical Characterisation Protocol UK: prospective, cohort study. The Lancet Digital Health, 2022, 4, e220-e234.	5.9	20
11	Distinct clinical symptom patterns in patients hospitalised with COVID-19 in an analysis of 59,011 patients in the ISARIC-4C study. Scientific Reports, 2022, 12, 6843.	1.6	12
12	Procalcitonin Is Not a Reliable Biomarker of Bacterial Coinfection in People With Coronavirus Disease 2019 Undergoing Microbiological Investigation at the Time of Hospital Admission. Open Forum Infectious Diseases, 2022, 9, ofac179.	0.4	10
13	The Impact of Sample Size Misestimations on the Interpretation of ARDS Trials. Chest, 2022, 162, 1048-1062.	0.4	2
14	Redefining critical illness. Nature Medicine, 2022, 28, 1141-1148.	15.2	136
15	Proteomic, biomechanical and functional analyses define neutrophil heterogeneity in systemic lupus erythematosus. Annals of the Rheumatic Diseases, 2021, 80, 209-218.	0.5	43
16	Circulating BMP9 Protects the Pulmonary Endothelium during Inflammation-induced Lung Injury in Mice. American Journal of Respiratory and Critical Care Medicine, 2021, 203, 1419-1430.	2.5	34
17	Measurement of Eosinophil Kinetics In Vivo. Methods in Molecular Biology, 2021, 2241, 183-191.	0.4	0
18	SARS-CoV-2 evolution during treatment of chronic infection. Nature, 2021, 592, 277-282.	13.7	802

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19	Precision medicine in acute respiratory distress syndrome: workshop report and recommendations for future research. European Respiratory Review, 2021, 30, 200317.	3.0	34
20	Inflammatory profiles across the spectrum of disease reveal a distinct role for GM-CSF in severe COVID-19. Science Immunology, 2021, 6, .	5.6	161
21	Risk of adverse outcomes in patients with underlying respiratory conditions admitted to hospital with COVID-19: a national, multicentre prospective cohort study using the ISARIC WHO Clinical Characterisation Protocol UK. Lancet Respiratory Medicine,the, 2021, 9, 699-711.	5.2	122
22	Sensitivity of SARS-CoV-2 B.1.1.7 to mRNA vaccine-elicited antibodies. Nature, 2021, 593, 136-141.	13.7	648
23	Single-cell multi-omics analysis of the immune response in COVID-19. Nature Medicine, 2021, 27, 904-916.	15.2	452
24	Development and validation of the ISARIC 4C Deterioration model for adults hospitalised with COVID-19: a prospective cohort study. Lancet Respiratory Medicine,the, 2021, 9, 349-359.	5.2	161
25	COVID-19 symptoms at hospital admission vary with age and sex: results from the ISARIC prospective multinational observational study. Infection, 2021, 49, 889-905.	2.3	62
26	Challenges and opportunities for conducting a vaccine trial during the COVID-19 pandemic in the United Kingdom. Clinical Trials, 2021, 18, 615-621.	0.7	3
27	Importance of patient bed pathways and length of stay differences in predicting COVID-19 hospital bed occupancy in England. BMC Health Services Research, 2021, 21, 566.	0.9	22
28	Age-related immune response heterogeneity to SARS-CoV-2 vaccine BNT162b2. Nature, 2021, 596, 417-422.	13.7	549
29	Endothelial cell regulation of systemic haemodynamics and metabolism acts through the HIF transcription factors. Intensive Care Medicine Experimental, 2021, 9, 28.	0.9	2
30	Changes in in-hospital mortality in the first wave of COVID-19: a multicentre prospective observational cohort study using the WHO Clinical Characterisation Protocol UK. Lancet Respiratory Medicine,the, 2021, 9, 773-785.	5.2	78
31	Characterisation of in-hospital complications associated with COVID-19 using the ISARIC WHO Clinical Characterisation Protocol UK: a prospective, multicentre cohort study. Lancet, The, 2021, 398, 223-237.	6.3	110
32	Lopinavir-ritonavir and hydroxychloroquine for critically ill patients with COVID-19: REMAP-CAP randomized controlled trial. Intensive Care Medicine, 2021, 47, 867-886.	3.9	65
33	Impact of differences in acute respiratory distress syndrome randomised controlled trial inclusion and exclusion criteria: systematic review and meta-analysis. British Journal of Anaesthesia, 2021, 127, 85-101.	1.5	13
34	Non-steroidal anti-inflammatory drug use and outcomes of COVID-19 in the ISARIC Clinical Characterisation Protocol UK cohort: a matched, prospective cohort study. Lancet Rheumatology, The, 2021, 3, e498-e506.	2.2	58
35	Co-infections, secondary infections, and antimicrobial use in patients hospitalised with COVID-19 during the first pandemic wave from the ISARIC WHO CCP-UK study: a multicentre, prospective cohort study. Lancet Microbe, The, 2021, 2, e354-e365.	3.4	216
36	SARS-CoV-2 B.1.617.2 Delta variant replication and immune evasion. Nature, 2021, 599, 114-119.	13.7	1,041

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37	A prenylated dsRNA sensor protects against severe COVID-19. Science, 2021, 374, eabj3624.	6.0	124
38	Genetic mechanisms of critical illness in COVID-19. Nature, 2021, 591, 92-98.	13.7	1,014
39	Vitamin D insufficiency in COVID-19 and influenza A, and critical illness survivors: a cross-sectional study. BMJ Open, 2021, 11, e055435.	0.8	10
40	Physical, cognitive, and mental health impacts of COVID-19 after hospitalisation (PHOSP-COVID): a UK multicentre, prospective cohort study. Lancet Respiratory Medicine,the, 2021, 9, 1275-1287.	5.2	394
41	The impact of viral mutations on recognition by SARS-CoV-2 specific TÂcells. IScience, 2021, 24, 103353.	1.9	57
42	The mechanics of myeloid cells. Biology of the Cell, 2020, 112, 103-112.	0.7	12
43	Outcome of Hospitalization for COVID-19 in Patients with Interstitial Lung Disease. An International Multicenter Study. American Journal of Respiratory and Critical Care Medicine, 2020, 202, 1656-1665.	2.5	171
44	A nebulised antitumour necrosis factor receptor-1 domain antibody in patients at risk of postoperative lung injury: A randomised, placebo-controlled pilot study. European Journal of Anaesthesiology, 2020, 37, 1014-1024.	0.7	7
45	ACCORD: A Multicentre, Seamless, Phase 2 Adaptive Randomisation Platform Study to Assess the Efficacy and Safety of Multiple Candidate Agents for the Treatment of COVID-19 in Hospitalised Patients: A structured summary of a study protocol for a randomised controlled trial. Trials, 2020, 21, 691.	0.7	62
46	Supervised machine learning for the early prediction of acute respiratory distress syndrome (ARDS). Journal of Critical Care, 2020, 60, 96-102.	1.0	54
47	Lesson of the month: novel method to quantify neutrophil uptake in early lung cancer using SPECT-CT. Thorax, 2020, 75, 1020-1023.	2.7	5
48	Current and evolving standards of care for patients with ARDS. Intensive Care Medicine, 2020, 46, 2157-2167.	3.9	55
49	Effect of the CXCR4 antagonist plerixafor on endogenous neutrophil dynamics in the bone marrow, lung and spleen. Journal of Leukocyte Biology, 2020, 107, 1175-1185.	1.5	11
50	Therapeutic blockade of granulocyte macrophage colony-stimulating factor in COVID-19-associated hyperinflammation: challenges and opportunities. Lancet Respiratory Medicine,the, 2020, 8, 822-830.	5.2	110
51	C5a impairs phagosomal maturation in the neutrophil through phosphoproteomic remodeling. JCI Insight, 2020, 5, .	2.3	26
52	Comparisons of Staphylococcus aureus infection and other outcomes between users of angiotensin-converting-enzyme inhibitors and angiotensin II receptor blockers: lessons for COVID-19 from a nationwide cohort study. Wellcome Open Research, 2020, 5, 77.	0.9	3
53	Acute hypoxaemic respiratory failure in a low-income country: a prospective observational study of hospital prevalence and mortality. BMJ Open Respiratory Research, 2020, 7, e000719.	1.2	7
54	Epidemiology of intra-abdominal infection and sepsis in critically ill patients: â€œAbSeSâ€, a multinational observational cohort study and ESICM Trials Group Project. Intensive Care Medicine, 2019, 45, 1703-1717.	3.9	103

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55	The counter-intuitive role of the neutrophil in the acute respiratory distress syndrome. British Medical Bulletin, 2019, 131, 43-55.	2.7	33
56	The Neutrophil Life Cycle. Trends in Immunology, 2019, 40, 584-597.	2.9	265
57	Real-time deformability cytometry reveals sequential contraction and expansion during neutrophil priming. Journal of Leukocyte Biology, 2019, 105, 1143-1153.	1.5	34
58	The Coagulation and Immune Systems Are Directly Linked through the Activation of Interleukin-1Î± by Thrombin. Immunity, 2019, 50, 1033-1042.e6.	6.6	154
59	Chasing the â€œHoly Grailâ€• Modulating Neutrophils in Inflammatory Lung Disease. American Journal of Respiratory and Critical Care Medicine, 2019, 200, 131-132.	2.5	6
60	Translational Research in Intensive Care Unit: Novel Approaches for Drug Development and Personalized Medicine. Seminars in Respiratory and Critical Care Medicine, 2019, 40, 687-698.	0.8	3
61	The clinical consequences of neutrophil priming. Current Opinion in Hematology, 2019, 26, 22-27.	1.2	10
62	Reply. Journal of Allergy and Clinical Immunology, 2019, 143, 1265-1266.	1.5	0
63	Novel anti-tumour necrosis factor receptor-1 (TNFR1) domain antibody prevents pulmonary inflammation in experimental acute lung injury. Thorax, 2018, 73, 723-730.	2.7	64
64	C5a anaphylatoxin and its role in critical illnessâ€•induced organ dysfunction. European Journal of Clinical Investigation, 2018, 48, e13028.	1.7	28
65	Major surgery and the immune system: from pathophysiology to treatment. Current Opinion in Critical Care, 2018, 24, 588-593.	1.6	19
66	InÂvivo imaging reveals increased eosinophil uptake in the lungs of obese asthmatic patients. Journal of Allergy and Clinical Immunology, 2018, 142, 1659-1662.e8.	1.5	30
67	Radiolabelled leucocytes in human pulmonary disease. British Medical Bulletin, 2018, 127, 69-82.	2.7	4
68	Definitions and pathophysiology of vasoplegic shock. Critical Care, 2018, 22, 174.	2.5	137
69	Priming and deâ€•priming of neutrophil responses in vitro and in vivo. European Journal of Clinical Investigation, 2018, 48, e12967.	1.7	73
70	Mechanical deformation induces depolarization of neutrophils. Science Advances, 2017, 3, e1602536.	4.7	68
71	Prediction of early unplanned intensive care unit readmission in a UK tertiary care hospital: a cross-sectional machine learning approach. BMJ Open, 2017, 7, e017199.	0.8	95
72	Cardiovascular adaptation to hypoxia and the role of peripheral resistance. ELife, 2017, 6, .	2.8	28

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73	Prospective Surveillance and Rapid Whole-Genome Sequencing Detects Two Unsuspected Outbreaks of Carbapenemase-Producing Klebsiella pneumoniae in a UK Teaching Hospital. Open Forum Infectious Diseases, 2017, 4, S43-S44.	0.4	3
74	Hypoxia upregulates neutrophil degranulation and potential for tissue injury. Thorax, 2016, 71, 1030-1038.	2.7	90
75	The pulmonary endothelium in acute respiratory distress syndrome: insights and therapeutic opportunities. Thorax, 2016, 71, 462-473.	2.7	169
76	Acute Respiratory Distress Syndrome Neutrophils Have a Distinct Phenotype and Are Resistant to Phosphoinositide 3-Kinase Inhibition. American Journal of Respiratory and Critical Care Medicine, 2016, 194, 961-973.	2.5	125
77	Incidence and recognition of acute respiratory distress syndrome in a UK intensive care unit. Thorax, 2016, 71, 1050-1051.	2.7	30
78	Therapeutic strategy in acute respiratory distress syndrome. , 2016, , .		0
79	Genome-wide transcription profiling in neutrophils in acute respiratory distress syndrome. Lancet, The, 2015, 385, S55.	6.3	16
80	Pulmonary retention of primed neutrophils: a novel protective host response, which is impaired in the acute respiratory distress syndrome. Thorax, 2014, 69, 623-629.	2.7	108
81	Killing without collateral damage: new hope for sepsis therapy. Immunology and Cell Biology, 2014, 92, 739-740.	1.0	1
82	Mathematical modeling supports the presence of neutrophil depriming in vivo. Physiological Reports, 2014, 2, e00241.	0.7	15
83	Functional capacity of alveolar neutrophils in acute respiratory distress syndrome. Lancet, The, 2014, 383, S64.	6.3	1
84	Use of 111-Indiumâ€“labeled autologous eosinophils to establish the in vivo kinetics of human eosinophils in healthy subjects. Blood, 2012, 120, 4068-4071.	0.6	58
85	Acute lung injury results from failure of neutrophil deâ€priming: a new hypothesis. European Journal of Clinical Investigation, 2012, 42, 1342-1349.	1.7	31
86	Differential Effects Of Sepsis And Acute Respiratory Distress Syndrome (ARDS) On CD62L Expression In Neutrophils Entering And Leaving The Lung. , 2012, , .		0
87	The Influence of the Spleen on Neutrophil Apoptosis in Vivo. Journal of Cell Death, 2011, 4, JCD.S6444.	0.8	2
88	Measuring wholeâ€body neutrophil redistribution using a dedicated wholeâ€body counter and ultraâ€low doses of ¹¹¹Indium. European Journal of Clinical Investigation, 2011, 41, 77-83.	1.7	12
89	Quantification of neutrophil migration into the lungs of patients with chronic obstructive pulmonary disease. European Journal of Nuclear Medicine and Molecular Imaging, 2011, 38, 911-919.	3.3	23
90	Granulocyte/Macrophage Colonyâ€“Stimulating Factor Causes a Paradoxical Increase in the BH3-Only Pro-Apoptotic Protein Bim in Human Neutrophils. American Journal of Respiratory Cell and Molecular Biology, 2011, 44, 879-887.	1.4	40

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91	Hypoxia Selectively Inhibits Respiratory Burst Activity and Killing of Staphylococcus aureus in Human Neutrophils. Journal of Immunology, 2011, 186, 453-463.	0.4	116
92	Establishing The Pulmonary Transit Time Of Primed And Unprimed Neutrophils In Man. , 2010, , .		0
93	Neutrophil kinetics in health and disease. Trends in Immunology, 2010, 31, 318-324.	2.9	875
94	Crystallographic and Cellular Characterisation of Two Mechanisms Stabilising the Native Fold of Î±1-Antitrypsin: Implications for Disease and Drug Design. Journal of Molecular Biology, 2009, 387, 857-868.	2.0	34
95	Investigation and management of an outbreak of multidrug-carbapenem-resistant Acinetobacter baumannii in Cambridge, UK. Journal of Hospital Infection, 2008, 70, 109-118.	1.4	40
96	99mTechnetium-labelled neutrophil scanning in pneumonia. Thorax, 2008, 64, 92-92.	2.7	2
97	Recent changes in the management of community acquired pneumonia in adults. BMJ: British Medical Journal, 2008, 336, 1429-1433.	2.4	26
98	Advances in Neutrophil Biology. Chest, 2008, 134, 606-612.	0.4	164
99	Respiratory Disorders: Acute Respiratory Distress Syndrome. , 0, , 365-371.		1
100	Characterising the transcriptome of hypersegmented human neutrophils. Wellcome Open Research, 0, 6, 343.	0.9	0