

# Charlotte Summers

## List of Publications by Year in descending order

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Version: 2024-02-01

100  
papers

10,626  
citations

71061

41  
h-index

40954

93  
g-index

114  
all docs

114  
docs citations

114  
times ranked

19630  
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. <i>Thorax</i> , 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. <i>Nephrology Dialysis Transplantation</i> , 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. <i>Annals of the American Thoracic Society</i> , 2022, 19, 691-694.	1.5	4
4	Hypoxia Increases the Potential for Neutrophil-mediated Endothelial Damage in Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 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. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2022, 66, e1-e14.	1.4	82
6	Common, low-frequency, rare, and ultra-rare coding variants contribute to COVID-19 severity. <i>Human Genetics</i> , 2022, 141, 147-173.	1.8	22
7	Elucidating mechanisms of genetic cross-disease associations at the PROCRA vascular disease locus. <i>Nature Communications</i> , 2022, 13, 1222.	5.8	5
8	Towards a biological definition of ARDS: are treatable traits the solution?. <i>Intensive Care Medicine Experimental</i> , 2022, 10, 8.	0.9	32
9	Whole-genome sequencing reveals host factors underlying critical COVID-19. <i>Nature</i> , 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. <i>The Lancet Digital Health</i> , 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. <i>Scientific Reports</i> , 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. <i>Open Forum Infectious Diseases</i> , 2022, 9, ofac179.	0.4	10
13	The Impact of Sample Size Misestimations on the Interpretation of ARDS Trials. <i>Chest</i> , 2022, 162, 1048-1062.	0.4	2
14	Redefining critical illness. <i>Nature Medicine</i> , 2022, 28, 1141-1148.	15.2	136
15	Proteomic, biomechanical and functional analyses define neutrophil heterogeneity in systemic lupus erythematosus. <i>Annals of the Rheumatic Diseases</i> , 2021, 80, 209-218.	0.5	43
16	Circulating BMP9 Protects the Pulmonary Endothelium during Inflammation-induced Lung Injury in Mice. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 203, 1419-1430.	2.5	34
17	Measurement of Eosinophil Kinetics In Vivo. <i>Methods in Molecular Biology</i> , 2021, 2241, 183-191.	0.4	0
18	SARS-CoV-2 evolution during treatment of chronic infection. <i>Nature</i> , 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. <i>European Respiratory Review</i> , 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. <i>Science Immunology</i> , 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. <i>Lancet Respiratory Medicine</i> , 2021, 9, 699-711.	5.2	122
22	Sensitivity of SARS-CoV-2 B.1.1.7 to mRNA vaccine-elicited antibodies. <i>Nature</i> , 2021, 593, 136-141.	13.7	648
23	Single-cell multi-omics analysis of the immune response in COVID-19. <i>Nature Medicine</i> , 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. <i>Lancet Respiratory Medicine</i> , 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. <i>Infection</i> , 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. <i>Clinical Trials</i> , 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. <i>BMC Health Services Research</i> , 2021, 21, 566.	0.9	22
28	Age-related immune response heterogeneity to SARS-CoV-2 vaccine BNT162b2. <i>Nature</i> , 2021, 596, 417-422.	13.7	549
29	Endothelial cell regulation of systemic haemodynamics and metabolism acts through the HIF transcription factors. <i>Intensive Care Medicine Experimental</i> , 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. <i>Lancet Respiratory Medicine</i> , 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. <i>Lancet</i> , 2021, 398, 223-237.	6.3	110
32	Lopinavir-ritonavir and hydroxychloroquine for critically ill patients with COVID-19: REMAP-CAP randomized controlled trial. <i>Intensive Care Medicine</i> , 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. <i>British Journal of Anaesthesia</i> , 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. <i>Lancet Rheumatology</i> , 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. <i>Lancet Microbe</i> , 2021, 2, e354-e365.	3.4	216
36	SARS-CoV-2 B.1.617.2 Delta variant replication and immune evasion. <i>Nature</i> , 2021, 599, 114-119.	13.7	1,041

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37	A prenylated dsRNA sensor protects against severe COVID-19. <i>Science</i> , 2021, 374, eabj3624.	6.0	124
38	Genetic mechanisms of critical illness in COVID-19. <i>Nature</i> , 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. <i>BMJ Open</i> , 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. <i>Lancet Respiratory Medicine</i> , 2021, 9, 1275-1287.	5.2	394
41	The impact of viral mutations on recognition by SARS-CoV-2 specific T cells. <i>iScience</i> , 2021, 24, 103353.	1.9	57
42	The mechanics of myeloid cells. <i>Biology of the Cell</i> , 2020, 112, 103-112.	0.7	12
43	Outcome of Hospitalization for COVID-19 in Patients with Interstitial Lung Disease. An International Multicenter Study. <i>American Journal of Respiratory and Critical Care Medicine</i> , 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. <i>European Journal of Anaesthesiology</i> , 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. <i>Trials</i> , 2020, 21, 691.	0.7	62
46	Supervised machine learning for the early prediction of acute respiratory distress syndrome (ARDS). <i>Journal of Critical Care</i> , 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. <i>Thorax</i> , 2020, 75, 1020-1023.	2.7	5
48	Current and evolving standards of care for patients with ARDS. <i>Intensive Care Medicine</i> , 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. <i>Journal of Leukocyte Biology</i> , 2020, 107, 1175-1185.	1.5	11
50	Therapeutic blockade of granulocyte macrophage colony-stimulating factor in COVID-19-associated hyperinflammation: challenges and opportunities. <i>Lancet Respiratory Medicine</i> , 2020, 8, 822-830.	5.2	110
51	C5a impairs phagosomal maturation in the neutrophil through phosphoproteomic remodeling. <i>JCI Insight</i> , 2020, 5, .	2.3	26
52	Comparisons of <i>Staphylococcus aureus</i> 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. <i>Wellcome Open Research</i> , 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. <i>BMJ Open Respiratory Research</i> , 2020, 7, e000719.	1.2	7
54	Epidemiology of intra-abdominal infection and sepsis in critically ill patients: a multinational observational cohort study and ESICM Trials Group Project. <i>Intensive Care Medicine</i> , 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. <i>British Medical Bulletin</i> , 2019, 131, 43-55.	2.7	33
56	The Neutrophil Life Cycle. <i>Trends in Immunology</i> , 2019, 40, 584-597.	2.9	265
57	Real-time deformability cytometry reveals sequential contraction and expansion during neutrophil priming. <i>Journal of Leukocyte Biology</i> , 2019, 105, 1143-1153.	1.5	34
58	The Coagulation and Immune Systems Are Directly Linked through the Activation of Interleukin-1 $\beta$ by Thrombin. <i>Immunity</i> , 2019, 50, 1033-1042.e6.	6.6	154
59	Chasing the "Holy Grail": Modulating Neutrophils in Inflammatory Lung Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 200, 131-132.	2.5	6
60	Translational Research in Intensive Care Unit: Novel Approaches for Drug Development and Personalized Medicine. <i>Seminars in Respiratory and Critical Care Medicine</i> , 2019, 40, 687-698.	0.8	3
61	The clinical consequences of neutrophil priming. <i>Current Opinion in Hematology</i> , 2019, 26, 22-27.	1.2	10
62	Reply. <i>Journal of Allergy and Clinical Immunology</i> , 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. <i>Thorax</i> , 2018, 73, 723-730.	2.7	64
64	C5a anaphylatoxin and its role in critical illness-induced organ dysfunction. <i>European Journal of Clinical Investigation</i> , 2018, 48, e13028.	1.7	28
65	Major surgery and the immune system: from pathophysiology to treatment. <i>Current Opinion in Critical Care</i> , 2018, 24, 588-593.	1.6	19
66	In vivo imaging reveals increased eosinophil uptake in the lungs of obese asthmatic patients. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 142, 1659-1662.e8.	1.5	30
67	Radiolabelled leucocytes in human pulmonary disease. <i>British Medical Bulletin</i> , 2018, 127, 69-82.	2.7	4
68	Definitions and pathophysiology of vasoplegic shock. <i>Critical Care</i> , 2018, 22, 174.	2.5	137
69	Priming and depriming of neutrophil responses in vitro and in vivo. <i>European Journal of Clinical Investigation</i> , 2018, 48, e12967.	1.7	73
70	Mechanical deformation induces depolarization of neutrophils. <i>Science Advances</i> , 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. <i>BMJ Open</i> , 2017, 7, e017199.	0.8	95
72	Cardiovascular adaptation to hypoxia and the role of peripheral resistance. <i>ELife</i> , 2017, 6, .	2.8	28

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73	Prospective Surveillance and Rapid Whole-Genome Sequencing Detects Two Unsuspected Outbreaks of Carbapenemase-Producing <i>Klebsiella pneumoniae</i> in a UK Teaching Hospital. <i>Open Forum Infectious Diseases</i> , 2017, 4, S43-S44.	0.4	3
74	Hypoxia upregulates neutrophil degranulation and potential for tissue injury. <i>Thorax</i> , 2016, 71, 1030-1038.	2.7	90
75	The pulmonary endothelium in acute respiratory distress syndrome: insights and therapeutic opportunities. <i>Thorax</i> , 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. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016, 194, 961-973.	2.5	125
77	Incidence and recognition of acute respiratory distress syndrome in a UK intensive care unit. <i>Thorax</i> , 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. <i>Lancet, The</i> , 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. <i>Thorax</i> , 2014, 69, 623-629.	2.7	108
81	Killing without collateral damage: new hope for sepsis therapy. <i>Immunology and Cell Biology</i> , 2014, 92, 739-740.	1.0	1
82	Mathematical modeling supports the presence of neutrophil depriming in vivo. <i>Physiological Reports</i> , 2014, 2, e00241.	0.7	15
83	Functional capacity of alveolar neutrophils in acute respiratory distress syndrome. <i>Lancet, The</i> , 2014, 383, S64.	6.3	1
84	Use of 111-Indium <sup>67</sup> labeled autologous eosinophils to establish the in vivo kinetics of human eosinophils in healthy subjects. <i>Blood</i> , 2012, 120, 4068-4071.	0.6	58
85	Acute lung injury results from failure of neutrophil depriming: a new hypothesis. <i>European Journal of Clinical Investigation</i> , 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. <i>Journal of Cell Death</i> , 2011, 4, JCD.S6444.	0.8	2
88	Measuring whole-body neutrophil redistribution using a dedicated whole-body counter and ultra-low doses of <sup>111</sup> Indium. <i>European Journal of Clinical Investigation</i> , 2011, 41, 77-83.	1.7	12
89	Quantification of neutrophil migration into the lungs of patients with chronic obstructive pulmonary disease. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2011, 38, 911-919.	3.3	23
90	Granulocyte/Macrophage Colony-Stimulating Factor Causes a Paradoxical Increase in the BH3-Only Pro-Apoptotic Protein Bim in Human Neutrophils. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2011, 44, 879-887.	1.4	40

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91	Hypoxia Selectively Inhibits Respiratory Burst Activity and Killing of <i>Staphylococcus aureus</i> in Human Neutrophils. <i>Journal of Immunology</i> , 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. <i>Trends in Immunology</i> , 2010, 31, 318-324.	2.9	875
94	Crystallographic and Cellular Characterisation of Two Mechanisms Stabilising the Native Fold of $\alpha$ 1-Antitrypsin: Implications for Disease and Drug Design. <i>Journal of Molecular Biology</i> , 2009, 387, 857-868.	2.0	34
95	Investigation and management of an outbreak of multidrug-carbapenem-resistant <i>Acinetobacter baumannii</i> in Cambridge, UK. <i>Journal of Hospital Infection</i> , 2008, 70, 109-118.	1.4	40
96	<sup>99m</sup> Techneium-labelled neutrophil scanning in pneumonia. <i>Thorax</i> , 2008, 64, 92-92.	2.7	2
97	Recent changes in the management of community acquired pneumonia in adults. <i>BMJ: British Medical Journal</i> , 2008, 336, 1429-1433.	2.4	26
98	Advances in Neutrophil Biology. <i>Chest</i> , 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. <i>Wellcome Open Research</i> , 0, 6, 343.	0.9	0