Lieuwe D Bos

List of Publications by Year
in descending order

200 papers	11,603 citations	71004 43 h-index	37326 100 g-index
204 all docs	204 docs citations	204 times ranked	18792 citing authors

#	Article	IF	Citations
1	Targeted exhaled breath analysis for detection of Pseudomonas aeruginosa in cystic fibrosis patients. Journal of Cystic Fibrosis, 2022, 21, e28-e34.	0.3	17
2	Untargeted Molecular Analysis of Exhaled Breath as a Diagnostic Test for Ventilator-Associated Lower Respiratory Tract Infections (BreathDx). Thorax, 2022, 77, 79-81.	2.7	10
3	Incidence, Clinical Characteristics and Outcomes of Early Hyperbilirubinemia in Critically Ill Patients: Insights From the MARS Study. Shock, 2022, 57, 161-167.	1.0	7
4	Comparison of microbial composition of cough swabs and sputum for pathogen detection in patients with cystic fibrosis. Journal of Cystic Fibrosis, 2022, 21, 52-60.	0.3	6
5	ERS clinical practice guidelines: high-flow nasal cannula in acute respiratory failure. European Respiratory Journal, 2022, 59, 2101574.	3.1	110
6	Etiology of Myocardial Injury in Critically Ill Patients with Sepsis: A Cohort Study. Annals of the American Thoracic Society, 2022, 19, 773-780.	1.5	5
7	COVID-19 Pathophysiology: An Opportunity to Start Appreciating Time-Dependent Variation. American Journal of Respiratory and Critical Care Medicine, 2022, , .	2.5	2
8	Time-dependent bias when analysing COVID-19-associated pulmonary aspergillosis. Lancet Respiratory Medicine,the, 2022, 10, e25-e26.	5.2	0
9	Source-specific host response and outcomes in critically ill patients with sepsis: a prospective cohort study. Intensive Care Medicine, 2022, 48, 92-102.	3.9	35
10	The INVENT COVID trial: a structured protocol for a randomized controlled trial investigating the efficacy and safety of intravenous imatinib mesylate (ImpentriÂ®) in subjects with acute respiratory distress syndrome induced by COVID-19. Trials, 2022, 23, 158.	0.7	6
11	Towards a biological definition of ARDS: are treatable traits the solution?. Intensive Care Medicine Experimental, 2022, 10, 8.	0.9	32
12	Patients with hypothermic sepsis have a unique gene expression profile compared to patients with fever and sepsis. Journal of Cellular and Molecular Medicine, 2022, 26, 1896-1904.	1.6	1
13	Breath octane and acetaldehyde as markers for ARDS in invasively ventilated patients suspected to have VAP. ERJ Open Research, 2022, 8, 00624-2021.	1.1	2
14	Inhaled pulmonary vasodilators are not associated with improved gas exchange in mechanically ventilated patients with COVID-19: A retrospective cohort study. Journal of Critical Care, 2022, 69, 153990.	1.0	8
15	Update in Critical Care 2021. American Journal of Respiratory and Critical Care Medicine, 2022, , .	2.5	0
16	Effect of erythromycin on mortality and the host response in critically ill patients with sepsis: a target trial emulation. Critical Care, 2022, 26, .	2.5	4
17	Ventilation management and clinical outcomes in invasively ventilated patients with COVID-19 (PRoVENT-COVID): a national, multicentre, observational cohort study. Lancet Respiratory Medicine,the, 2021, 9, 139-148.	5.2	206
18	Detection and quantification of exhaled volatile organic compounds in mechanically ventilated patients â€“ comparison of two sampling methods. Analyst, The, 2021, 146, 222-231.	1.7	8

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19	Severe COVID-19 Infectionsâ€"Knowledge Gained and Remaining Questions. JAMA Internal Medicine, 2021, 181, 9.	2.6	15
20	Development and validation of a point-of-care breath test for octane detection. Analyst, The, 2021, 146, 4605-4614.	1.7	8
21	Consumptive coagulopathy is associated with a disturbed host response in patients with sepsis. Journal of Thrombosis and Haemostasis, 2021, 19, 1049-1063.	1.9	10
22	Biological subphenotypes of acute respiratory distress syndrome may not reflect differences in alveolar inflammation. Physiological Reports, 2021, 9, e14693.	0.7	19
23	Precision medicine in acute respiratory distress syndrome: workshop report and recommendations for future research. European Respiratory Review, 2021, 30, 200317.	3.0	34
24	The Association of Intraoperative driving pressure with postoperative pulmonary complications in open versus closed abdominal surgery patients â€" a posthoc propensity scoreâ€"weighted cohort analysis of the LAS VEGAS study. BMC Anesthesiology, 2021, 21, 84.	0.7	19
25	Instrumental dead space in ventilator management â€" Authors' reply. Lancet Respiratory Medicine,the, 2021, 9, e23.	5.2	4
26	Cleaving the Acute Respiratory Distress Syndrome into Treatable Traits: A Role for Caspase-1?. American Journal of Respiratory and Critical Care Medicine, 2021, 204, 6-7.	2.5	0
27	Awake Proning as an Adjunctive Therapy for Refractory Hypoxemia in Non-Intubated Patients with COVID-19 Acute Respiratory Failure: Guidance from an International Group of Healthcare Workers. American Journal of Tropical Medicine and Hygiene, 2021, 104, 1676-1686.	0.6	21
28	Practice of adjunctive treatments in critically ill COVIDâ€"19 patientsâ€"rational for the multicenter observational PRoAcT-COVID study in The Netherlands. Annals of Translational Medicine, 2021, 9, 813-813.	0.7	6
29	Clinical features and prognostic factors in Covid-19: A prospective cohort study. EBioMedicine, 2021, 67, 103378.	2.7	79
30	Dead space estimates may not be independently associated with 28-day mortality in COVID-19 ARDS. Critical Care, 2021, 25, 171.	2.5	20
31	Slicing and dicing ARDS: we almost forgot the lungs. Critical Care, 2021, 25, 180.	2.5	0
32	Assessment of the Effect of Recruitment Maneuver on Lung Aeration Through Imaging Analysis in Invasively Ventilated Patients: A Systematic Review. Frontiers in Physiology, 2021, 12, 666941.	1.3	9
33	Assessment of Lung Reaeration at 2 Levels of Positive End-expiratory Pressure in Patients With Early and Late COVID-19-related Acute Respiratory Distress Syndrome. Journal of Thoracic Imaging, 2021, 36, 286-293.	0.8	10
34	Biological Subphenotypes of Acute Respiratory Distress Syndrome Show Prognostic Enrichment in Mechanically Ventilated Patients without Acute Respiratory Distress Syndrome. American Journal of Respiratory and Critical Care Medicine, 2021, 203, 1503-1511.	2.5	43
35	Association of early positive end-expiratory pressure settings with ventilator-free days in patients with coronavirus disease 2019 acute respiratory distress syndrome. European Journal of Anaesthesiology, 2021, Publish Ahead of Print, 1274-1283.	0.7	7
36	Diagnosis of acute respiratory distress syndrome (DARTS) by bedside exhaled breath octane measurements in invasively ventilated patients: protocol of a multicentre observational cohort study. Annals of Translational Medicine, 2021, 9, 1262-1262.	0.7	9

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37	Quantitative Method for the Analysis of Ivacaftor, Hydroxymethyl Ivacaftor, Ivacaftor Carboxylate, Lumacaftor, and Tezacaftor in Plasma and Sputum Using Liquid Chromatography With Tandem Mass Spectrometry and Its Clinical Applicability. Therapeutic Drug Monitoring, 2021, 43, 555-563.	1.0	10
38	Ultrasound versus Computed Tomography Assessment of Focal Lung Aeration in Invasively Ventilated ICU Patients. Ultrasound in Medicine and Biology, 2021, 47, 2589-2597.	0.7	10
39	Lung Ultrasound Assessment of Focal and Non-focal Lung Morphology in Patients With Acute Respiratory Distress Syndrome. Frontiers in Physiology, 2021, 12, 730857.	1.3	18
40	Imatinib in patients with severe COVID-19: a randomised, double-blind, placebo-controlled, clinical trial. Lancet Respiratory Medicine,the, 2021, 9, 957-968.	5.2	83
41	Pathophysiology of the Acute Respiratory Distress Syndrome. Critical Care Clinics, 2021, 37, 795-815.	1.0	19
42	Lumacaftor/ivacaftor changes the lung microbiome and metabolome in cystic fibrosis patients. ERJ Open Research, 2021, 7, 00731-2020.	1.1	21
43	Breathomics in Chronic Airway Diseases. , 2021, , 244-255.		1
44	Systematic review of diagnostic methods for acute respiratory distress syndrome. ERJ Open Research, 2021, 7, 00504-2020.	1.1	6
45	Longitudinal respiratory subphenotypes in patients with COVID-19-related acute respiratory distress syndrome: results from three observational cohorts. Lancet Respiratory Medicine,the, 2021, 9, 1377-1386.	5.2	71
46	A Lower Global Lung Ultrasound Score Is Associated with Higher Likelihood of Successful Extubation in Invasively Ventilated COVID-19 Patients. American Journal of Tropical Medicine and Hygiene, 2021, 105, 1490-1497.	0.6	6
47	COVID-19: management in the ICU. , 2021, , 124-143.		2
48	Potential of Parameters of Iron Metabolism for the Diagnosis of Anemia of Inflammation in the Critically Ill. Transfusion Medicine and Hemotherapy, 2020, 47, 61-67.	0.7	3
49	Anti-C5a antibody IFX-1 (vilobelimab) treatment versus best supportive care for patients with severe COVID-19 (PANAMO): an exploratory, open-label, phase 2 randomised controlled trial. Lancet Rheumatology, The, 2020, 2, e764-e773.	2.2	148
50	A Higher Fluid Balance in the Days After Septic Shock Reversal Is Associated With Increased Mortality: An Observational Cohort Study. , 2020, 2, e0219.		15
51	ePS6.01 Targeted analysis of volatile organic compounds for detection of Pseudomonas aeruginosa in cystic fibrosis patients by exhaled breath analysis. Journal of Cystic Fibrosis, 2020, 19, S52.	0.3	0
52	Phenotypes and personalized medicine in the acute respiratory distress syndrome. Intensive Care Medicine, 2020, 46, 2136-2152.	3.9	106
53	PRactice of VENTilation in Patients with Novel Coronavirus Disease (PRoVENT-COVID): rationale and protocol for a national multicenter observational study in The Netherlands. Annals of Translational Medicine, 2020, 8, 1251-1251.	0.7	24
54	Precision Medicine in Neonates: Future Perspectives for the Lung. Frontiers in Pediatrics, 2020, 8, 586061.	0.9	10

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55	Comparison of Linear and Sector Array Probe for Handheld Lung Ultrasound in Invasively Ventilated ICU Patients. Ultrasound in Medicine and Biology, 2020, 46, 3249-3256.	0.7	8
56	The importance of airway and lung microbiome in the critically ill. Critical Care, 2020, 24, 537.	2.5	36
57	Inborn errors of type I IFN immunity in patients with life-threatening COVID-19. Science, 2020, 370, .	6.0	1,749
58	Autoantibodies against type I IFNs in patients with life-threatening COVID-19. Science, 2020, 370, .	6.0	1,983
59	Response to COVID-19 phenotyping correspondence. European Respiratory Journal, 2020, 56, 2002756.	3.1	10
60	Extensive pulmonary perfusion defects compatible with microthrombosis and thromboembolic disease in severe Covid-19 pneumonia. Thrombosis Research, 2020, 196, 135-137.	0.8	13
61	Subphenotyping Acute Respiratory Distress Syndrome in Patients with COVID-19: Consequences for Ventilator Management. Annals of the American Thoracic Society, 2020, 17, 1161-1163.	1.5	79
62	The perils of premature phenotyping in COVID-19: a call for caution. European Respiratory Journal, 2020, 56, 2001768.	3.1	51
63	COVID-19â€“related Acute Respiratory Distress Syndrome: Not So Atypical. American Journal of Respiratory and Critical Care Medicine, 2020, 202, 622-624.	2.5	26
64	Lung Microbiota Predict Clinical Outcomes in Critically Ill Patients. American Journal of Respiratory and Critical Care Medicine, 2020, 201, 555-563.	2.5	202
65	New biomarkers for respiratory infections. Current Opinion in Pulmonary Medicine, 2020, 26, 232-240.	1.2	7
66	ERS International Congress, Madrid, 2019: highlights from the Respiratory Intensive Care Assembly. ERJ Open Research, 2020, 6, 00331-2019.	1.1	1
67	Intraoperative ventilator settings and their association with postoperative pulmonary complications in neurosurgical patients: post-hoc analysis of LAS VEGAS study. BMC Anesthesiology, 2020, 20, 73.	0.7	6
68	Acute respiratory distress syndrome subphenotypes and therapy responsive traits among preclinical models: protocol for a systematic review and meta-analysis. Respiratory Research, 2020, 21, 81.	1.4	12
69	Alkaline phosphatase in pulmonary inflammationâ€”a translational study in ventilated critically ill patients and rats. Intensive Care Medicine Experimental, 2020, 8, 46.	0.9	7
70	The effects of tidal volume size and driving pressure levels on pulmonary complement activation: an observational study in critically ill patients. Intensive Care Medicine Experimental, 2020, 8, 74.	0.9	2
71	Case Report: Lung Ultrasound for the Guidance of Adjunctive Therapies in Two Invasively Ventilated Patients with COVID-19. American Journal of Tropical Medicine and Hygiene, 2020, 103, 1978-1982.	0.6	5
72	Prognostic classification based on P/F and PEEP in invasively ventilated ICU patients with hypoxemiaâ€”insights from the MARS study. Intensive Care Medicine Experimental, 2020, 8, 43.	0.9	1

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73	The predictive validity for mortality of the driving pressure and the mechanical power of ventilation. Intensive Care Medicine Experimental, 2020, 8, 60.	0.9	5
74	Impact of a Gap Junction Protein Alpha 4 Variant on Clinical Disease Phenotype in F508del Homozygous Patients With Cystic Fibrosis. Frontiers in Genetics, 2020, 11, 570403.	1.1	1
75	Ivacaftor/lumacaftor changes the lung microbiome and metabolome in cystic fibrosis patients. , 2020, , .		1
76	Why translational research matters: proceedings of the third international symposium on acute lung injury translational research (INSPIRES III). Intensive Care Medicine Experimental, 2019, 7, 40.	0.9	3
77	Manipulation of the microbiome in critical illnessâ€"probiotics as a preventive measure against ventilator-associated pneumonia. Intensive Care Medicine Experimental, 2019, 7, 37.	0.9	17
78	The role of hypercapnia in acute respiratory failure. Intensive Care Medicine Experimental, 2019, 7, 39.	0.9	39
79	Changes in lung microbiome do not explain the development of ventilator-associated pneumonia. Intensive Care Medicine, 2019, 45, 1133-1135.	3.9	10
80	How to chair a poster discussion session. Breathe, 2019, 15, 131-134.	0.6	1
81	A pilot study of a novel molecular host response assay to diagnose infection in patients after high-risk gastro-intestinal surgery. Journal of Critical Care, 2019, 54, 83-87.	1.0	3
82	Age-dependent differences in pulmonary host responses in ARDS: a prospective observational cohort study. Annals of Intensive Care, 2019, 9, 55.	2.2	92
83	Targeted treatment of acute respiratory distress syndrome with statinsâ€"a commentary on two phenotype stratified re-analysis of randomized controlled trials. Journal of Thoracic Disease, 2019, 11, S296-S299.	0.6	8
84	Volatile organic compound profiles in outlet air from extracorporeal life-support devices differ from breath profiles in critically ill patients. ERJ Open Research, 2019, 5, 00134-2018.	1.1	5
85	Epidemiology and outcomes of source control procedures in critically ill patients with intra-abdominal infection. Journal of Critical Care, 2019, 52, 258-264.	1.0	27
86	European Respiratory Society International Congress 2018: highlights from Assembly 2 on respiratory intensive care. ERJ Open Research, 2019, 5, 00198-2018.	1.1	3
87	Soluble urokinase plasminogen activator receptor for the prediction of ventilator-associated pneumonia. ERJ Open Research, 2019, 5, 00212-2018.	1.1	7
88	Association between night-time surgery and occurrence of intraoperative adverse events and postoperative pulmonary complications. British Journal of Anaesthesia, 2019, 122, 361-369.	1.5	39
89	Exhaled breath metabolomics reveals a pathogen-specific response in a rat pneumonia model for two human pathogenic bacteria: a proof-of-concept study. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2019, 316, L751-L756.	1.3	17
90	Associations between changes in oxygenation, dead space and driving pressure induced by the first prone position session and mortality in patients with acute respiratory distress syndrome. Journal of Thoracic Disease, 2019, 11, 5004-5013.	0.6	15

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91	Predicting the clinical trajectory in critically ill patients with sepsis: a cohort study. Critical Care, 2019, 23, 408.	2.5	13
92	Biomarkers in Pulmonary Infections. Clinical Pulmonary Medicine, 2019, 26, 118-125.	0.3	8
93	Future of the ICU: finding treatable needles in the data haystack. Intensive Care Medicine, 2019, 45, 240-242.	3.9	2
94	Understanding Heterogeneity in Biologic Phenotypes of Acute Respiratory Distress Syndrome by Leukocyte Expression Profiles. American Journal of Respiratory and Critical Care Medicine, 2019, 200, 42-50.	2.5	89
95	Myocardial Injury in Critically Ill Patients with Community-acquired Pneumonia. A Cohort Study. Annals of the American Thoracic Society, 2019, 16, 606-612.	1.5	40
96	Estimated dead space fraction and the ventilatory ratio are associated with mortality in early ARDS. Annals of Intensive Care, 2019, 9, 128.	2.2	52
97	Increased mortality in elderly patients with acute respiratory distress syndrome is not explained by host response. Intensive Care Medicine Experimental, 2019, 7, 58.	0.9	13
98	The lung bacterial microbiome in community-acquired and nosocomial pneumonia. , 2019, , 188-194.		1
99	Modelling electronic nose sensor deflections by matching Gas Chromatography-Mass Spectrometry exhaled breath samples. , 2019, , .		0
100	Association of the Estimated Dead Space Fraction and the Ventilatory Ratio with Mortality in Patients with Acute Respiratory Distress Syndrome. , 2019, , .		0
101	Resolved versus confirmed ARDS after 24Âh: insights from the LUNG SAFE study. Intensive Care Medicine, 2018, 44, 564-577.	3.9	48
102	ARDS: challenges in patient care and frontiers in research. European Respiratory Review, 2018, 27, 170107.	3.0	34
103	Myocardial Injury in Patients With Sepsis and Its Association With Long-Term Outcome. Circulation: Cardiovascular Quality and Outcomes, 2018, 11, e004040.	0.9	87
104	The fragility of statistically significant findings in randomised controlled anaesthesiology trials: systematic review of the medical literature. British Journal of Anaesthesia, 2018, 120, 935-941.	1.5	46
105	The potential role of exhaled breath analysis in the diagnostic process of pneumoniaâ€"a systematic review. Journal of Breath Research, 2018, 12, 024001.	1.5	56
106	New kids on the block in the ECMC and opportunities for early career members in 2018. Breathe, 2018, 14, 55-57.	0.6	1
107	Contrary to popular belief, ventilator-associated lower respiratory tract infections are less common in immunocompromised patients. European Respiratory Journal, 2018, 51, 1800228.	3.1	1
108	Profiling of volatile organic compounds produced by clinical Aspergillus isolates using gas chromatographyâ€"mass spectrometry. Medical Mycology, 2018, 56, 253-256.	0.3	14

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109	Respiratory Viruses in Invasively Ventilated Critically Ill Patientsâ€"A Prospective Multicenter Observational Study. Critical Care Medicine, 2018, 46, 29-36.	0.4	35
110	Diagnosis of acute respiratory distress syndrome by exhaled breath analysis. Annals of Translational Medicine, 2018, 6, 33-33.	0.7	24
111	Association between pre-operative biological phenotypes and postoperative pulmonary complications. European Journal of Anaesthesiology, 2018, 35, 702-709.	0.7	8
112	Effect of cytomegalovirus reactivation on the time course of systemic host response biomarkers in previously immunocompetent critically ill patients with sepsis: a matched cohort study. Critical Care, 2018, 22, 348.	2.5	10
113	Mechanical power of ventilation is associated with mortality in critically ill patients: an analysis of patients in two observational cohorts. Intensive Care Medicine, 2018, 44, 1914-1922.	3.9	323
114	Noninvasive ventilation in hypercapnic respiratory failure: from rocking beds to fancy masks. Breathe, 2018, 14, 235-237.	0.6	2
115	New Surviving Sepsis Campaign guidelines: back to the art of medicine. European Respiratory Journal, 2018, 52, 1701818.	3.1	5
116	Iron metabolism in critically ill patients developing anemia of inflammation: a case control study. Annals of Intensive Care, 2018, 8, 56.	2.2	20
117	TD/GCâ€"MS analysis of volatile markers emitted from mono- and co-cultures of Enterobacter cloacae and Pseudomonas aeruginosa in artificial sputum. Metabolomics, 2018, 14, 66.	1.4	26
118	Volatile organic compound signature from co-culture of lung epithelial cell line with Pseudomonas aeruginosa. Analyst, The, 2018, 143, 3148-3155.	1.7	28
119	Detection of Pseudomonas aeruginosa in exhaled breath of cystic fibrosis patients. , 2018, , .		3
120	Macrolide therapy is associated with reduced mortality in acute respiratory distress syndrome (ARDS) patients. Annals of Translational Medicine, 2018, 6, 24-24.	0.7	29
121	How to improve quality of research in intensive care medicine. Annals of Translational Medicine, 2018, 6, 35-35.	0.7	1
122	Exhaled volatile markers analysed using Selected Ion Flow Tube Mass Spectrometry discriminate Pseudomonas aeruginosa and Streptococcus pneumoniae lung infection in a rat model study. , 2018, , .		0
123	Exhaled breath analysis for the detection of Streptococcus pneumoniae and Pseudomonas aeruginosa lung infections using gas chromatography â€" mass spectrometry: a rat model study.. , 2018, , .		0
124	Detection of Pseudomonas aeruginosa infection in cystic fibrosis patients by eNose technology. , 2018, , .		0
125	Preface from European Respiratory Society President 2018 Mina Gaga and European Respiratory Society Early-Career Member Committee Chair Lieuwe D. J. Bos. Journal of Thoracic Disease, 2018, 10, S2975-S2976.	0.6	0
126	BreathDx â€" molecular analysis of exhaled breath as a diagnostic test for ventilatorâ€"associated pneumonia: protocol for a European multicentre observational study. BMC Pulmonary Medicine, 2017, 17, 1.	0.8	84

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127	The dynamics of the pulmonary microbiome during mechanical ventilation in the intensive care unit and the association with occurrence of pneumonia. Thorax, 2017, 72, 803-810.	2.7	118
128	Non-invasive breath monitoring with eNose does not improve glucose diagnostics in critically ill patients in comparison to continuous glucose monitoring in blood. Journal of Breath Research, 2017, 11, 026002.	1.5	5
129	Volatile organic compounds in exhaled breath are independent of systemic inflammatory syndrome caused by intravenous lipopolysaccharide infusion in humans: results from an experiment in healthy volunteers. Journal of Breath Research, 2017, 11, 026003.	1.5	12
130	Selective decontamination of the digestive tract halves the prevalence of ventilator-associated pneumonia compared to selective oral decontamination. Intensive Care Medicine, 2017, 43, 1535-1537.	3.9	16
131	Biomarkers kinetics in the assessment of ventilator-associated pneumonia response to antibiotics - results from the BioVAP study. Journal of Critical Care, 2017, 41, 91-97.	1.0	23
132	A European Respiratory Society technical standard: exhaled biomarkers in lung disease. European Respiratory Journal, 2017, 49, 1600965.	3.1	432
133	Identification and validation of distinct biological phenotypes in patients with acute respiratory distress syndrome by cluster analysis. Thorax, 2017, 72, 876-883.	2.7	202
134	Epidemiology, practice of ventilation and outcome for patients at increased risk of postoperative pulmonary complications. European Journal of Anaesthesiology, 2017, 34, 492-507.	0.7	189
135	Kinetics of plasma biomarkers of inflammation and lung injury in surgical patients with or without postoperative pulmonary complications. European Journal of Anaesthesiology, 2017, 34, 229-238.	0.7	33
136	Increased Early Systemic Inflammation in ICU-Acquired Weakness; A Prospective Observational Cohort Study*. Critical Care Medicine, 2017, 45, 972-979.	0.4	50
137	Opportunities for early careerÂmembers. Breathe, 2017, 13, 127-128.	0.6	0
138	Breathomics from exhaled volatile organic compounds in pediatric asthma. Pediatric Pulmonology, 2017, 52, 1616-1627.	1.0	78
139	Respiratory research networks in Europe and beyond: aims, achievements and aspirations for the 21st century. Breathe, 2017, 13, 209-215.	0.6	2
140	Classification of patients with sepsis according to blood genomic endotype: a prospective cohort study. Lancet Respiratory Medicine,the, 2017, 5, 816-826.	5.2	381
141	Risk stratification using SpO2/FiO2 and PEEP at initial ARDS diagnosis and after 24Âh in patients with moderate or severe ARDS. Annals of Intensive Care, 2017, 7, 108.	2.2	28
142	Intensive care unit patients with lower respiratory tract nosocomial infections: the ENIRRIs project. ERJ Open Research, 2017, 3, 00092-2017.	1.1	22
143	Exhaled breath profiles in the monitoring of loss of control and clinical recovery in asthma. Clinical and Experimental Allergy, 2017, 47, 1159-1169.	1.4	83
144	High-flow nasal cannula in the postoperative period: is positive pressure the phantom of the OPERA trial?. Intensive Care Medicine, 2017, 43, 119-121.	3.9	6

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145	Will all ARDS patients be receiving mechanical ventilation in 2035? Yes. Intensive Care Medicine, 2017, 43, 568-569.	3.9	3
146	Incidence, Predictors, and Outcomes of New-Onset Atrial Fibrillation in Critically Ill Patients with Sepsis. A Cohort Study. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 205-211.	2.5	160
147	Increased incidence of co-infection in critically ill patients with influenza. Intensive Care Medicine, 2017, 43, 48-58.	3.9	159
148	Exhaled Breath Metabolomics for the Diagnosis of Pneumonia in Intubated and Mechanically-Ventilated Intensive Care Unit (ICU)-Patients. International Journal of Molecular Sciences, 2017, 18, 449.	1.8	49
149	New ECMC members. Breathe, 2017, 13, 51-52.	0.6	0
150	A new prediction score for critically ill patientsâ€"do we need an Apgar score for acute respiratory distress syndrome?. Journal of Thoracic Disease, 2017, 9, E142-E145.	0.6	0
151	Integrative research agenda for diagnosis in sepsis. Annals of Translational Medicine, 2017, 5, 454-454.	0.7	1
152	Airway microbiome research: a modern perspective on surveillance cultures?. Annals of Translational Medicine, 2017, 5, 445-445.	0.7	7
153	Preface from ERS President 2018 Mina Gaga and ERS Early-Career Member Committee Chair Lieuwe Bos. Journal of Thoracic Disease, 2017, 9, S1524-S1525.	0.6	0
154	Promising but still uncertain steps towards better prediction of functional outcome in ICU patients. Journal of Thoracic Disease, 2016, 8, E838-E840.	0.6	1
155	Factors Influencing Continuous Breath Signal in Intubated and Mechanically-Ventilated Intensive Care Unit Patients Measured by an Electronic Nose. Sensors, 2016, 16, 1337.	2.1	5
156	Early Career Members at the ERSÂInternational Congress London 2016. Breathe, 2016, 12, 364-368.	0.6	0
157	Bacteria in the airways of patients with cystic fibrosis are genetically capable of producing VOCs in breath. Journal of Breath Research, 2016, 10, 047103.	1.5	30
158	Biomarker kinetics in the prediction of VAP diagnosis: results from the BioVAP study. Annals of Intensive Care, 2016, 6, 32.	2.2	50
159	Breathomics in the setting of asthma and chronic obstructive pulmonary disease. Journal of Allergy and Clinical Immunology, 2016, 138, 970-976.	1.5	88
160	Impact of HIV infection on the presentation, outcome and host response in patients admitted to the intensive care unit with sepsis; a case control study. Critical Care, 2016, 20, 322.	2.5	15
161	Clinical practice of respiratory virus diagnostics in critically ill patients with a suspected pneumonia: A prospective observational study. Journal of Clinical Virology, 2016, 83, 37-42.	1.6	18
162	External validation of the APPS, a new and simple outcome prediction score in patients with the acute respiratory distress syndrome. Annals of Intensive Care, 2016, 6, 89.	2.2	15

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163	Point and trend accuracy of a continuous intravenous microdialysis-based glucose-monitoring device in critically ill patients: a prospective study. Annals of Intensive Care, 2016, 6, 68.	2.2	20
164	Transfusion of platelets, but not of red blood cells, is independently associated with nosocomial infections in the critically ill. Annals of Intensive Care, 2016, 6, 67.	2.2	31
165	Modeled Analysis of Entrance of Colloid Suspensions into the Middle Ear Cavity. Otolaryngology - Head and Neck Surgery, 2016, 154, 917-919.	1.1	0
166	Chronic antiplatelet therapy is not associated with alterations in the presentation, outcome, or host response biomarkers during sepsis: a propensity-matched analysis. Intensive Care Medicine, 2016, 42, 352-360.	3.9	32
167	Admission Hyperglycemia in Critically Ill Sepsis Patients: Association With Outcome and Host Response*. Critical Care Medicine, 2016, 44, 1338-1346.	0.4	90
168	Incidence, Risk Factors, and Attributable Mortality of Secondary Infections in the Intensive Care Unit After Admission for Sepsis. JAMA - Journal of the American Medical Association, 2016, 315, 1469.	3.8	367
169	Smelling the Diagnosis: The Electronic Nose as Diagnostic Tool in Inflammatory Arthritis. A Case-Reference Study. PLoS ONE, 2016, 11, e0151715.	1.1	27
170	Point and trend accuracy of continuous glucose monitoring using intravenous microdialysis in critically ill patients. Critical Care, 2015, 19, .	2.5	0
171	Associations between bolus infusion of hydrocortisone, glycemic variability and insulin infusion rate variability in critically ill patients under moderate glycemic control. Annals of Intensive Care, 2015, 5, 34.	2.2	9
172	Plasma fractalkine is a sustained marker of disease severity and outcome in sepsis patients. Critical Care, 2015, 19, 412.	2.5	24
173	Tumor necrosis factor receptor 1 (TNFRI) for ventilator-associated pneumonia diagnosis by cytokine multiplex analysis. Intensive Care Medicine Experimental, 2015, 3, 26.	0.9	15
174	Levels of cytokines in broncho-alveolar lavage fluid, but not in plasma, are associated with levels of markers of lipid peroxidation in breath of ventilated ICU patients. Journal of Breath Research, 2015, 9, 036010.	1.5	12
175	Comparison of classification methods in breath analysis by electronic nose. Journal of Breath Research, 2015, 9, 046002.	1.5	68
176	External validation confirms the legitimacy of a new clinical classification of ARDS for predicting outcome. Intensive Care Medicine, 2015, 41, 2004-2005.	3.9	10
177	Plasma suPAR as a prognostic biological marker for ICU mortality in ARDS patients. Intensive Care Medicine, 2015, 41, 1281-1290.	3.9	35
178	Epidemiology, Management, and Risk-Adjusted Mortality of ICU-Acquired Enterococcal Bacteremia. Clinical Infectious Diseases, 2015, 61, 1413-1420.	2.9	26
179	Exhaled Molecular Fingerprinting in Diagnosis and Monitoring: Validating Volatile Promises. Trends in Molecular Medicine, 2015, 21, 633-644.	3.5	134
180	Comparison of Probabilistic versus Non-probabilistic Electronic Nose Classification Methods in an Animal Model. Lecture Notes in Computer Science, 2015, , 298-303.	1.0	1

#	Article	IF	Citations
181	How integration of global omics-data could help preparing for pandemics Ã¢â‚¬â€œ a scent of influenza. Frontiers in Genetics, 2014, 5, 80.	1.1	7
182	Exhaled breath analysis with electronic nose technology for detection of acute liver failure in rats. Biosensors and Bioelectronics, 2014, 53, 129-134.	5.3	46
183	A simple breath sampling method in intubated and mechanically ventilated critically ill patients. Respiratory Physiology and Neurobiology, 2014, 191, 67-74.	0.7	32
184	Exhaled breath metabolomics as a noninvasive diagnostic tool for acute respiratory distress syndrome. European Respiratory Journal, 2014, 44, 188-197.	3.1	117
185	Glucose prediction by analysis of exhaled metabolites â€“ a systematic review. BMC Anesthesiology, 2014, 14, 46.	0.7	30
186	The volatile metabolic fingerprint of ventilator-associated pneumonia. Intensive Care Medicine, 2014, 40, 761-762.	3.9	30
187	Exhaled breath profiling for diagnosing acute respiratory distress syndrome. BMC Pulmonary Medicine, 2014, 14, 72.	0.8	45
188	Innovations that could improve early recognition of ventilator-associated pneumonia. Intensive Care Medicine, 2014, 40, 1352-1354.	3.9	5
189	High versus low positive end-expiratory pressure during general anaesthesia for open abdominal surgery (PROVHILO trial): a multicentre randomised controlled trial. Lancet, The, 2014, 384, 495-503.	6.3	544
190	Continuous prediction of glucose-level changes using an electronic nose in critically ill patients. Critical Care, 2014, 18, .	2.5	1
191	Volatile Metabolites of Pathogens: A Systematic Review. PLoS Pathogens, 2013, 9, e1003311.	2.1	319
192	Interobserver Agreement of Centers for Disease Control and Prevention Criteria for Classifying Infections in Critically Ill Patients*. Critical Care Medicine, 2013, 41, 2373-2378.	0.4	172
193	Prolonged preoperative hospital stay is a risk factor for complications after emergency colectomy for severe colitis. Colorectal Disease, 2013, 15, 1392-1398.	0.7	30
194	The Extent of Ventilator-Induced Lung Injury in Mice Partly Depends on Duration of Mechanical Ventilation. Critical Care Research and Practice, 2013, 2013, 1-11.	0.4	26
195	Effect of transportation and storage using sorbent tubes of exhaled breath samples on diagnostic accuracy of electronic nose analysis. Journal of Breath Research, 2013, 7, 016002.	1.5	54
196	Alterations in exhaled breath metabolite-mixtures in two rat models of lipopolysaccharide-induced lung injury. Journal of Applied Physiology, 2013, 115, 1487-1495.	1.2	33
197	Measuring Metabolomics in Acute Lung Injury: Choosing the Correct Compartment?. American Journal of Respiratory and Critical Care Medicine, 2012, 185, 789-789.	2.5	8
198	Use of Centre for Disease Control criteria to classify infections in critically ill patients: results from an interobserver agreement study. Critical Care, 2012, 16, .	2.5	1

#	Article	IF	Citations
199	Feasibility of continuous exhaled breath analysis in intubated and mechanically ventilated critically ill patients. Critical Care, 2011, 15, .	2.5	0
200	CONTINUOUS EXHALED BREATH ANALYSIS ON THE ICU. , 2011, , .		1