Diederik Gommers

List of Publications by Year
in descending order

50 papers	1,204 citations
516710 16 h-index	414414 32 g-index
53 all docs	53 docs citations
53 times ranked	1765 citing authors

#	Article	IF	Citations
1	Diagnosis, Prevention, and Treatment of Thromboembolic Complications in COVID-19: Report of the National Institute for Public Health of the Netherlands. Radiology, 2020, 297, E216-E222.	7.3	261
2	Ultrasonographic measured optic nerve sheath diameter as an accurate and quick monitor for changes in intracranial pressure. Journal of Neurosurgery, 2015, 123, 743-747.	1.6	147
3	Failure of target attainment of beta-lactam antibiotics in critically ill patients and associated risk factors: a two-center prospective study (EXPAT). Critical Care, 2020, 24, 558.	5.8	69
4	Functional evaluation of sublingual microcirculation indicates successful weaning from VA-ECMO in cardiogenic shock. Critical Care, 2017, 21, 265.	5.8	58
5	Microcirculatory assessment of patients under VA-ECMO. Critical Care, 2016, 20, 344.	5.8	57
6	Recruitment Maneuvers and Higher PEEP, the So-Called Open Lung Concept, in Patients with ARDS. Critical Care, 2019, 23, 73.	5.8	44
7	Developing, implementing and governing artificial intelligence in medicine: a step-by-step approach to prevent an artificial intelligence winter. BMJ Health and Care Informatics, 2022, 29, e100495.	3.0	41
8	Capillary Leukocytes, Microaggregates, and the Response to Hypoxemia in the Microcirculation of Coronavirus Disease 2019 Patients. Critical Care Medicine, 2021, 49, 661-670.	0.9	39
9	Onset of Donor Warm Ischemia Time in Donation After Circulatory Death Liver Transplantation: Hypotension or Hypoxia?. Liver Transplantation, 2018, 24, 1001-1010.	2.4	38
10	High procalcitonin levels associated with increased intensive care unit admission and mortality in patients with a COVID-19 infection in the emergency department. BMC Infectious Diseases, 2022, 22, 165.	2.9	38
11	Patients suffering from psychological impairments following critical illness are in need of information. Journal of Intensive Care, 2020, 8, 6.	2.9	36
12	Persistent Health Problems beyond Pulmonary Recovery up to 6 Months after Hospitalization for COVID-19: A Longitudinal Study of Respiratory, Physical, and Psychological Outcomes. Annals of the American Thoracic Society, 2022, 19, 551-561.	3.2	33
13	Predictors of short-term successful discontinuation of continuous renal replacement therapy: results from a prospective multicentre study. BMC Nephrology, 2019, 20, 129.	1.8	32
14	Intensive Care Unit–Specific Virtual Reality for Critically Ill Patients With COVID-19: Multicenter Randomized Controlled Trial. Journal of Medical Internet Research, 2022, 24, e32368.	4.3	27
15	Intensive Care Unit-Specific Virtual Reality for Psychological Recovery After ICU Treatment for COVID-19; A Brief Case Report. Frontiers in Medicine, 2020, 7, 629086.	2.6	22
16	The Dutch Data Warehouse, a multicenter and full-admission electronic health records database for critically ill COVID-19 patients. Critical Care, 2021, 25, 304.	5.8	22
17	Progressive respiratory failure in COVID-19: a hypothesis. Lancet Infectious Diseases, The, 2020, 20, 1365.	9.1	19
18	Safety and efficacy of beta-blockers to improve oxygenation in patients on veno-venous ECMO. Journal of Critical Care, 2019, 53, 248-252.	2.2	18

#	Article	IF	Citations
19	Effect of intensive care unit-specific virtual reality (ICU-VR) to improve psychological well-being and quality of life in COVID-19 ICU survivors: a study protocol for a multicentre, randomized controlled trial. Trials, 2021, 22, 328.	1.6	18
20	Virtual Reality to Improve Sequelae of the Postintensive Care Syndrome: A Multicenter, Randomized Controlled Feasibility Study. , 2021, 3, e0538.		15
21	Predictors for extubation failure in COVID-19 patients using a machine learning approach. Critical Care, 2021, 25, 448.	5.8	15
22	A narrative review of predictors for β-lactam antibiotic exposure during empirical treatment in critically ill patients. Expert Opinion on Drug Metabolism and Toxicology, 2021, 17, 359-368.	3.3	14
23	Targeting urine output and 30-day mortality in goal-directed therapy: a systematic review with meta-analysis and meta-regression. BMC Anesthesiology, 2017, 17, 22.	1.8	12
24	A novel mortality risk score predicting intensive care mortality in cardiogenic shock patients treated with veno-arterial extracorporeal membrane oxygenation. Journal of Critical Care, 2020, 55, 35-41.	2.2	12
25	End-of-life practices in traumatic brain injury patients: Report of a questionnaire from the CENTER-TBI study. Journal of Critical Care, 2020, 58, 78-88.	2.2	10
26	Virtual Reality Tailored to the Needs of Post-ICU Patients: A Safety and Immersiveness Study in Healthy Volunteers. , 2021, 3, e0388.		10
27	Rapid Evaluation of Coronavirus Illness Severity (RECOILS) in intensive care: Development and validation of a prognostic tool for in-hospital mortality. Acta Anaesthesiologica Scandinavica, 2022, 66, 65-75.	1.6	9
28	Predicting mortality in adult patients with sepsis in the emergency department by using combinations of biomarkers and clinical scoring systems: a systematic review. BMC Emergency Medicine, 2021, 21, 70.	1.9	8
29	Predictors of 90-Day Restart of Renal Replacement Therapy after Discontinuation of Continuous Renal Replacement Therapy, a Prospective Multicenter Study. Blood Purification, 2019, 48, 243-252.	1.8	7
30	Dutch Perspectives Toward Governmental Trust, Vaccination, Myths, and Knowledge About Vaccines and COVID-19. JAMA Network Open, 2021, 4, e2140529.	5.9	6
31	Optimizing discharge after major surgery using an artificial intelligence-based decision support tool (DESIRE): An external validation study. Surgery, 2022, 172, 663-669.	1.9	6
32	Familiarity with the post-intensive care syndrome among general practitioners and opportunities to improve their involvement in ICU follow-up care. Intensive Care Medicine, 2022, 48, 1090-1092.	8.2	6
33	Predicting need for hospital-specific interventional care after surgery using electronic health record data. Surgery, 2021, 170, 790-796.	1.9	5
34	Some Patients Are More Equal Than Others: Variation in Ventilator Settings for Coronavirus Disease 2019 Acute Respiratory Distress Syndrome. , 2021, 3, e0555.		5
35	Shaping critical care through sound-driven innovation: introduction, outline, and research agenda. Intensive Care Medicine, 2020, 46, 542-543.	8.2	4
36	Effect of Methylprednisolone on Inflammation and Coagulation in Patients with Severe COVID-19: A Retrospective Cohort Study. Biomarker Insights, 2021, 16, 117727192110216.	2.5	4

#	ARTICLE	IF	CITATIONS
37	Risk factors for adverse outcomes during mechanical ventilation of 1152 COVID-19 patients: a multicenter machine learning study with highly granular data from the Dutch Data Warehouse. Intensive Care Medicine Experimental, 2021, 9, 32.	1.9	4
38	Virtual reality for relatives of ICU patients to improve psychological sequelae: study protocol for a multicentre, randomised controlled trial. BMJ Open, 2021, 11, e049704.	1.9	4
39	Community-acquired pneumonia subgroups and differential response to corticosteroids: a secondary analysis of controlled studies. ERJ Open Research, 2022, 8, 00489-2021.	2.6	4
40	Joint Modeling of Repeated Measurements of Different Biomarkers Predicts Mortality in COVID-19 Patients in the Intensive Care Unit. Biomarker Insights, 2022, 17, 117727192211123.	2.5	4
41	PET-CT for detecting the undetected in the ICU. Intensive Care Medicine, 2016, 42, 111-112.	8.2	3
42	Women of reproductive age in a tertiary intensive care unit: indications, outcome and the impact of pregnancyâ€"a retrospective cohort study. BMC Women's Health, 2021, 21, 248.	2.0	3
43	Higher 1-year mortality in women admitted to intensive care units after cardiac arrest: A nationwide overview from the Netherlands between 2010 and 2018. Journal of Critical Care, 2021, 64, 176-183.	2.2	3
44	A feasibility study into adenosine triphosphate measurement in exhaled breath condensate: a potential bedside method to monitor alveolar deformation. Purinergic Signalling, 2018, 14, 215-221.	2.2	2
45	Fluid balance-adjusted creatinine at initiation of continuous venovenous hemofiltration and mortality. A post-hoc analysis of a multicenter randomized controlled trial.. PLoS ONE, 2018, 13, e0197301.	2.5	2
46	Cytokines and Chemokines Are Detectable in Swivel-Derived Exhaled Breath Condensate (SEBC): A Pilot Study in Mechanically Ventilated Patients. Disease Markers, 2020, 2020, 1-6.	1.3	2
47	Psychologic Distress and Quality of Life After ICU Treatment for Coronavirus Disease 2019: A Multicenter, Observational Cohort Study. , 2021, 3, e0497.		2
48	Demystifying machine learning for mortality prediction. Critical Care, 2021, 25, 447.	5.8	2
49	Monitoring Mitochondrial Partial Oxygen Pressure During Cardiac Arrest and Extracorporeal Cardiopulmonary Resuscitation. An Experimental Pilot Study in a Pig Model. Frontiers in Cardiovascular Medicine, 2021, 8, 754852.	2.4	1
50	Predicting thromboembolic complications in COVID-19 ICU patients using machine learning. Journal of Clinical and Translational Research, 2020, 6, 179-186.	0.3	1