

Stephan Ehrmann

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

3,744
citations

136740

32
h-index

138251

58
g-index

102
all docs

102
docs citations

102
times ranked

5067
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Hydrocortisone on 21-Day Mortality or Respiratory Support Among Critically Ill Patients With COVID-19. <i>JAMA - Journal of the American Medical Association</i> , 2020, 324, 1298.	3.8	388
2	Awake prone positioning for COVID-19 acute hypoxaemic respiratory failure: a randomised, controlled, multinational, open-label meta-trial. <i>Lancet Respiratory Medicine</i> , 2021, 9, 1387-1395.	5.2	259
3	High-flow nasal cannula for COVID-19 patients: low risk of bio-aerosol dispersion. <i>European Respiratory Journal</i> , 2020, 55, 2000892.	3.1	219
4	Effect of Postextubation High-Flow Nasal Oxygen With Noninvasive Ventilation vs High-Flow Nasal Oxygen Alone on Reintubation Among Patients at High Risk of Extubation Failure. <i>JAMA - Journal of the American Medical Association</i> , 2019, 322, 1465.	3.8	188
5	Phenotypical and functional alteration of unconventional T cells in severe COVID-19 patients. <i>Journal of Experimental Medicine</i> , 2020, 217, .	4.2	150
6	Relation between mean arterial pressure and renal function in the early phase of shock: a prospective, explorative cohort study. <i>Critical Care</i> , 2011, 15, R135.	2.5	119
7	Non-invasive ventilation versus high-flow nasal cannula oxygen therapy with apnoeic oxygenation for preoxygenation before intubation of patients with acute hypoxaemic respiratory failure: a randomised, multicentre, open-label trial. <i>Lancet Respiratory Medicine</i> , 2019, 7, 303-312.	5.2	113
8	Clinical relevance of pulse pressure variations for predicting fluid responsiveness in mechanically ventilated intensive care unit patients: the grey zone approach. <i>Critical Care</i> , 2014, 18, 587.	2.5	100
9	Aerosol therapy during mechanical ventilation: an international survey. <i>Intensive Care Medicine</i> , 2013, 39, 1048-1056.	3.9	95
10	Acute Kidney Injury Network definition of contrast-induced nephropathy in the critically ill: Incidence and outcome. <i>Journal of Critical Care</i> , 2011, 26, 593-599.	1.0	91
11	Respiratory pulse pressure variation fails to predict fluid responsiveness in acute respiratory distress syndrome. <i>Critical Care</i> , 2011, 15, R85.	2.5	87
12	Nasal high-flow preoxygenation for endotracheal intubation in the critically ill patient: a randomized clinical trial. <i>Intensive Care Medicine</i> , 2019, 45, 447-458.	3.9	86
13	Aerosol Therapy in Adults Receiving High Flow Nasal Cannula Oxygen Therapy. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2016, 29, 134-141.	0.7	80
14	Central venous pressure measurements improve the accuracy of leg raising-induced change in pulse pressure to predict fluid responsiveness. <i>Intensive Care Medicine</i> , 2010, 36, 940-948.	3.9	74
15	Changes in cardiac arrest patients' temperature management after the 2013 'TTM' trial: results from an international survey. <i>Annals of Intensive Care</i> , 2016, 6, 4.	2.2	71
16	Nasal high flow nebulization in infants and toddlers: An in vitro and in vivo scintigraphic study. <i>Pediatric Pulmonology</i> , 2017, 52, 337-344.	1.0	69
17	Noninvasive monitoring of blood pressure in the critically ill. <i>Critical Care Medicine</i> , 2012, 40, 1207-1213.	0.4	68
18	Population pharmacokinetics of ceftriaxone in critically ill septic patients: a reappraisal. <i>British Journal of Clinical Pharmacology</i> , 2011, 72, 758-767.	1.1	67

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19	Aerosol therapy in intensive and intermediate care units: prospective observation of 2808 critically ill patients. <i>Intensive Care Medicine</i> , 2016, 42, 192-201.	3.9	63
20	Heterogeneity in the Definition of Mechanical Ventilation Duration and Ventilator-Free Days. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014, 189, 998-1002.	2.5	58
21	Contrast-associated acute kidney injury in the critically ill: systematic review and Bayesian meta-analysis. <i>Intensive Care Medicine</i> , 2017, 43, 785-794.	3.9	55
22	Acute Kidney Injury in the Critically Ill. <i>Critical Care Medicine</i> , 2013, 41, 1017-1026.	0.4	54
23	Volume expansion in the first 4 days of shock: a prospective multicentre study in 19 French intensive care units. <i>Intensive Care Medicine</i> , 2015, 41, 248-256.	3.9	52
24	Noninvasive BP Monitoring in the Critically Ill. <i>Chest</i> , 2018, 153, 1023-1039.	0.4	50
25	Pharmacokinetics of high-dose nebulized amikacin in mechanically ventilated healthy subjects. <i>Intensive Care Medicine</i> , 2008, 34, 755-762.	3.9	48
26	Aerosol delivery during invasive mechanical ventilation: a systematic review. <i>Critical Care</i> , 2017, 21, 264.	2.5	47
27	Innovative preclinical models for pulmonary drug delivery research. <i>Expert Opinion on Drug Delivery</i> , 2020, 17, 463-478.	2.4	45
28	Aerosol Delivery with Two Nebulizers Through High-Flow Nasal Cannula: A Randomized Cross-Over Single-Photon Emission Computed Tomography-Computed Tomography Study. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2017, 30, 349-358.	0.7	44
29	Factors for success of awake prone positioning in patients with COVID-19-induced acute hypoxemic respiratory failure: analysis of a randomized controlled trial. <i>Critical Care</i> , 2022, 26, 84.	2.5	40
30	Bioequivalence of inhaled drugs: fundamentals, challenges and perspectives. <i>Therapeutic Delivery</i> , 2013, 4, 343-367.	1.2	39
31	Fluid challenge: tracking changes in cardiac output with blood pressure monitoring (invasive or non-invasive). <i>Journal of Intensive Care Medicine</i> , 2014, 29, 107-114.	3.9	37
32	Tracking Hypotension and Dynamic Changes in Arterial Blood Pressure with Brachial Cuff Measurements. <i>Anesthesia and Analgesia</i> , 2009, 109, 494-501.	1.1	36
33	Nebulized antibiotics in mechanically ventilated patients: a challenge for translational research from technology to clinical care. <i>Annals of Intensive Care</i> , 2017, 7, 78.	2.2	36
34	Contrast-associated acute kidney injury is a myth: Yes. <i>Intensive Care Medicine</i> , 2018, 44, 104-106.	3.9	35
35	Arginine Vasopressin and Posterior Reversible Encephalopathy Syndrome Pathophysiology: the Missing Link?. <i>Molecular Neurobiology</i> , 2019, 56, 6792-6806.	1.9	34
36	Ventilator-Integrated Jet Nebulization Systems: Tidal Volume Control and Efficiency of Synchronization. <i>Respiratory Care</i> , 2014, 59, 1508-1516.	0.8	30

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37	Nasal high-flow bronchodilator nebulization: a randomized cross-over study. <i>Annals of Intensive Care</i> , 2018, 8, 128.	2.2	30
38	Clinical spectrum and short-term outcome of adult patients with purpura fulminans: a French multicenter retrospective cohort study. <i>Intensive Care Medicine</i> , 2018, 44, 1502-1511.	3.9	30
39	Outcomes of patients admitted to intensive care units for acute manifestation of small-vessel vasculitis: a multicenter, retrospective study. <i>Critical Care</i> , 2015, 20, 27.	2.5	28
40	Cerebral aspergillosis in the critically ill: two cases of successful medical treatment. <i>Intensive Care Medicine</i> , 2005, 31, 738-742.	3.9	27
41	Nephrotoxic drug burden among 1001 critically ill patients: impact on acute kidney injury. <i>Annals of Intensive Care</i> , 2019, 9, 106.	2.2	27
42	The CNAPâ„¢ Finger Cuff for Noninvasive Beat-To-Beat Monitoring of Arterial Blood Pressure: An Evaluation in Intensive Care Unit Patients and a Comparison with 2 Intermittent Devices. <i>Anesthesia and Analgesia</i> , 2016, 123, 1126-1135.	1.1	26
43	Nebulization of antimicrobial agents in mechanically ventilated adults in 2017: an international cross-sectional survey. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2018, 37, 785-794.	1.3	25
44	Management of severe asthma exacerbation: guidelines from the Soci�t� Fran�aise de M�decine d'Urgence, the Soci�t� de R�animation de Langue Fran�aise and the French Group for Pediatric Intensive Care and Emergencies. <i>Annals of Intensive Care</i> , 2019, 9, 115.	2.2	23
45	Preanalytical conditions of point-of-care testing in the intensive care unit are decisive for analysis reliability. <i>Annals of Intensive Care</i> , 2016, 6, 57.	2.2	21
46	Long-term Quality of Life in Adult Patients Surviving Purpura Fulminans: An Exposed-Unexposed Multicenter Cohort Study. <i>Clinical Infectious Diseases</i> , 2019, 69, 332-340.	2.9	19
47	Nasal High-Flow Nebulization for Lung Drug Delivery: Theoretical, Experimental, and Clinical Application. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2019, 32, 341-351.	0.7	18
48	Posterior Reversible Encephalopathy Syndrome in Clinical Toxicology: A Systematic Review of Published Case Reports. <i>Frontiers in Neurology</i> , 2019, 10, 1420.	1.1	18
49	High-Flow Aerosol-Dispersing versus Aerosol-Generating Procedures. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020, 202, 1069-1071.	2.5	17
50	Iohexol clearance in unstable critically ill patients: a tool to assess glomerular filtration rate. <i>Clinical Chemistry and Laboratory Medicine</i> , 2016, 54, 1777-1786.	1.4	15
51	Influence of Jet Nebulization and Oxygen Delivery on the Fraction of Inspired Oxygen: An Experimental Model. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2009, 22, 255-261.	0.7	14
52	Non-invasive blood pressure monitoring with an oscillometric brachial cuff: impact of arrhythmia. <i>Journal of Clinical Monitoring and Computing</i> , 2018, 32, 707-715.	0.7	14
53	Awake prone positioning of hypoxaemic patients with COVID-19: protocol for a randomised controlled open-label superiority meta-trial. <i>BMJ Open</i> , 2020, 10, e041520.	0.8	14
54	Worldwide Clinical Practice of High-Flow Nasal Cannula and Concomitant Aerosol Therapy in the Adult ICU Setting. <i>Respiratory Care</i> , 2021, 66, 1416-1424.	0.8	14

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55	High-flow nasal cannula oxygen therapy alone or with non-invasive ventilation during the weaning period after extubation in ICU: the prospective randomised controlled HIGH-WEAN protocol. <i>BMJ Open</i> , 2018, 8, e023772.	0.8	13
56	Iodinated contrast medium: Is there a re(n)al problem? A clinical vignette-based review. <i>Critical Care</i> , 2020, 24, 641.	2.5	13
57	Optimizing aerosol delivery of antibiotics in ventilated patients. <i>Current Opinion in Infectious Diseases</i> , 2020, 33, 1.	1.3	12
58	Vibrating Mesh Nebulisers – Can Greater Drug Delivery to the Airways and Lungs Improve Respiratory Outcomes?. <i>European Respiratory & Pulmonary Diseases</i> , 2018, 4, 33.	0.2	12
59	Meta-trial of awake prone positioning with nasal high flow therapy: Invitation to join a pandemic collaborative research effort. <i>Journal of Critical Care</i> , 2020, 60, 140-142.	1.0	11
60	Lack of impact of iodinated contrast media on kidney cell-cycle arrest biomarkers in critically ill patients. <i>BMC Nephrology</i> , 2018, 19, 308.	0.8	9
61	Glomerular Hyper- and Hypofiltration During Acute Circulatory Failure. <i>Critical Care Medicine</i> , 2019, 47, e623-e629.	0.4	9
62	In the Name of Contrast-Induced Acute Kidney Injury. <i>Chest</i> , 2020, 157, 751-752.	0.4	9
63	Noninvasive monitors of blood pressure in the critically ill. <i>European Journal of Anaesthesiology</i> , 2015, 32, 367-368.	0.7	8
64	Pazopanib-induced posterior reversible encephalopathy syndrome with possible syndrome of inappropriate secretion of antidiuretic hormone: an incidental or pathophysiological association?. <i>Neural Regeneration Research</i> , 2020, 15, 1166.	1.6	8
65	High-Flow Nasal Cannula Failure Odds Is Largely Independent of Duration of Use in COVID-19. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 205, 1240-1243.	2.5	8
66	T-piece versus pressure-support ventilation for spontaneous breathing trials before extubation in patients at high risk of reintubation: protocol for a multicentre, randomised controlled trial (TIP-EX). <i>BMJ Open</i> , 2020, 10, e042619.	0.8	7
67	Inhaled (inhaled sedation in ICU) trial protocol: a multicentre randomised open-label trial. <i>BMJ Open</i> , 2021, 11, e042284.	0.8	7
68	Noninvasive ventilation vs. high-flow nasal cannula oxygen for preoxygenation before intubation in patients with obesity: a post hoc analysis of a randomized controlled trial. <i>Annals of Intensive Care</i> , 2021, 11, 114.	2.2	7
69	Aerosolized drug delivery during mechanical ventilation. <i>Reanimation: Journal De La Societe De Reanimation De Langue Francaise</i> , 2012, 21, 42-54.	0.1	6
70	Eye-tracking and speech-generating technology to improve communication with intubated intensive care unit patients: initial experience. <i>Intensive Care Medicine</i> , 2018, 44, 676-677.	3.9	6
71	Intra-tracheal amikacin spray delivery in healthy mechanically ventilated piglets. <i>Pulmonary Pharmacology and Therapeutics</i> , 2019, 57, 101807.	1.1	6
72	Salbutamol Nebulization During Noninvasive Ventilation in Exacerbated Chronic Obstructive Pulmonary Disease Patients: A Randomized Controlled Trial. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2019, 32, 149-155.	0.7	6

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73	Virtual reality during work breaks to reduce fatigue of intensive unit caregivers: A crossover, pilot, randomised trial. <i>Australian Critical Care</i> , 2023, 36, 345-349.	0.6	6
74	The logistic organ dysfunction score as a tool for making ethical decisions. <i>Canadian Journal of Anaesthesia</i> , 2006, 53, 518-523.	0.7	5
75	Iodinated Contrast Medium Renal Toxicity. <i>Critical Care Medicine</i> , 2017, 45, e745-e746.	0.4	5
76	Pressurized Metered Dose Inhaler Aerosol Delivery Within Nasal High-Flow Circuits: A Bench Study. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2021, 34, 303-310.	0.7	5
77	Bronchodilator Delivery via High-Flow Nasal Cannula: A Randomized Controlled Trial to Compare the Effects of Gas Flows. <i>Pharmaceutics</i> , 2021, 13, 1655.	2.0	5
78	Pulse pressure variation. <i>Critical Care Medicine</i> , 2012, 40, 1691.	0.4	4
79	Kinetic Glomerular Filtration Rate Equations in Patients With Shock: Comparison With the Iohexol-Based Gold-Standard Method. <i>Critical Care Medicine</i> , 2021, 49, e761-e770.	0.4	4
80	Inhaled amikacin versus placebo to prevent ventilator-associated pneumonia: the AMIKINHAL double-blind multicentre randomised controlled trial protocol. <i>BMJ Open</i> , 2021, 11, e048591.	0.8	4
81	Clinical phenotype and outcomes of pneumococcal versus meningococcal purpura fulminans: a multicenter retrospective cohort study. <i>Critical Care</i> , 2021, 25, 386.	2.5	4
82	β-Blockade and Septic Shock Phenotype. <i>Critical Care Medicine</i> , 2016, 44, e310-e311.	0.4	3
83	Inhaled antibiotics during mechanical ventilation—why it will work. <i>Annals of Translational Medicine</i> , 2021, 9, 598-598.	0.7	3
84	Early versus deferred arterial catheterisation in critically ill patients with acute circulatory failure: a multicentre, open-label, pragmatic, randomised, non-inferiority controlled trial: the EVERDAC protocol. <i>BMJ Open</i> , 2021, 11, e044719.	0.8	3
85	Promises and challenges of eye-tracking technology to evaluate the care process in the ICU. <i>Minerva Anestesiologica</i> , 2020, 86, 1123-1125.	0.6	3
86	A single Bayesian estimator for iohexol clearance estimation in ICU, liver failure and renal transplant patients. <i>British Journal of Clinical Pharmacology</i> , 2021, , .	1.1	3
87	Inhaled antibiotics in critical care: State of the art and future perspectives. <i>Infectious Diseases Now</i> , 2022, 52, 327-333.	0.7	3
88	Eye tracking communication with intubated critically ill patients: a proof-of-concept multicenter pilot study. <i>Minerva Anestesiologica</i> , 2022, 88, .	0.6	3
89	Relying on pulse oximetry to avoid hypoxaemia and hyperoxia: A multicentre prospective cohort study in patients with circulatory failure. <i>Australian Critical Care</i> , 2023, 36, 307-312.	0.6	3
90	Néphropathie induite par les produits de contraste iodés en réanimation. <i>Reanimation: Journal De La Societe De Reanimation De Langue Francaise</i> , 2012, 21, 463-473.	0.1	2

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91	Assessing the Effects of Passive Leg Raising: Fast, Not Furious. <i>Critical Care Medicine</i> , 2016, 44, e764-e765.	0.4	1
92	Pulse Pressure Variation. <i>Critical Care Medicine</i> , 2016, 44, e305.	0.4	1
93	Dynamic Indices Derived from Heartâ€“Lung Interactions: Incende Quod Adorasti. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2017, 195, 1073-1074.	2.5	1
94	Aerosolized Antibiotics. <i>Clinical Pulmonary Medicine</i> , 2017, 24, 183-190.	0.3	1
95	Prognosis of Very Elderly Patients after Intensive Care. <i>Journal of Clinical Medicine</i> , 2022, 11, 897.	1.0	1
96	Passive leg raising: easy at last!. <i>Intensive Care Medicine</i> , 2010, 36, 1446-1446.	3.9	0
97	The authors reply. <i>Critical Care Medicine</i> , 2013, 41, e388.	0.4	0
98	Reply to the reply to Scientific rationale for inhaled caspofungin to treat <i>Pneumocystis pneumonia</i> : A therapeutic innovation likely relevant to investigate in a near future â€ . <i>International Journal of Infectious Diseases</i> , 2020, 95, 469-470.	1.5	0
99	How to Safely Reopen Cardiopulmonary Rehabilitation Facilities. <i>Chest</i> , 2021, 160, 405-406.	0.4	0