

Steffen Weber-Carstens

List of Publications by Citations

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106
papers

4,501
citations

27
h-index

65
g-index

129
ext. papers

5,915
ext. citations

5.9
avg, IF

5.32
L-index

#	Paper	IF	Citations
106	Nonexcitable muscle membrane predicts intensive care unit-acquired paresis in mechanically ventilated, sedated patients. <i>Critical Care Medicine</i> , 2009 , 37, 2632-7	1.4	569
105	Immunologic and hemodynamic effects of "low-dose" hydrocortisone in septic shock: a double-blind, randomized, placebo-controlled, crossover study. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2003 , 167, 512-20	10.2	459
104	Granulocyte-macrophage colony-stimulating factor to reverse sepsis-associated immunosuppression: a double-blind, randomized, placebo-controlled multicenter trial. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2009 , 180, 640-8	10.2	431
103	Case characteristics, resource use, and outcomes of 10 021 patients with COVID-19 admitted to 920 German hospitals: an observational study. <i>Lancet Respiratory Medicine</i> , 2020 , 8, 853-862	35.1	354
102	Lower tidal volume strategy (8 ml/kg) combined with extracorporeal CO ₂ removal versus conventional protective ventilation (6 ml/kg) in severe ARDS: the prospective randomized Xtravent-study. <i>Intensive Care Medicine</i> , 2013 , 39, 847-56	14.5	349
101	Critical illness polyneuropathy and myopathy in patients with acute respiratory distress syndrome. <i>Critical Care Medicine</i> , 2005 , 33, 711-5	1.4	143
100	Intensive care unit-acquired weakness (ICUAW) and muscle wasting in critically ill patients with severe sepsis and septic shock. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2010 , 1, 147-157	10.3	135
99	Propagation of cortical spreading depolarization in the human cortex after malignant stroke. <i>Neurology</i> , 2013 , 80, 1095-102	6.5	128
98	Associations between ventilator settings during extracorporeal membrane oxygenation for refractory hypoxemia and outcome in patients with acute respiratory distress syndrome: a pooled individual patient data analysis : Mechanical ventilation during ECMO. <i>Intensive Care Medicine</i> , 2016 , 21, 178-184	14.5	112
97	Social support during intensive care unit stay might improve mental impairment and consequently health-related quality of life in survivors of severe acute respiratory distress syndrome. <i>Critical Care</i> , 2006 , 10, R147	10.8	102
96	Dynamics of myosin degradation in intensive care unit-acquired weakness during severe critical illness. <i>Intensive Care Medicine</i> , 2014 , 40, 528-38	14.5	85
95	Risk factors in critical illness myopathy during the early course of critical illness: a prospective observational study. <i>Critical Care</i> , 2010 , 14, R119	10.8	82
94	Critical illness myopathy is frequent: accompanying neuropathy protracts ICU discharge. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2011 , 82, 287-93	5.5	73
93	Critical illness myopathy and GLUT4: significance of insulin and muscle contraction. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013 , 187, 387-96	10.2	70
92	Inflammation-induced acute phase response in skeletal muscle and critical illness myopathy. <i>PLoS ONE</i> , 2014 , 9, e92048	3.7	55
91	Long-term recovery In critical illness myopathy is complete, contrary to polyneuropathy. <i>Muscle and Nerve</i> , 2014 , 50, 431-6	3.4	54
90	Early type II fiber atrophy in intensive care unit patients with nonexcitable muscle membrane. <i>Critical Care Medicine</i> , 2012 , 40, 647-50	1.4	51

89	Long-term outcome after the acute respiratory distress syndrome: different from general critical illness?. <i>Current Opinion in Critical Care</i> , 2018 , 24, 35-40	3.5	51
88	Studying the pathophysiology of coronavirus disease 2019: a protocol for the Berlin prospective COVID-19 patient cohort (Pa-COVID-19). <i>Infection</i> , 2020 , 48, 619-626	5.8	40
87	Impact of bolus application of low-dose hydrocortisone on glycemic control in septic shock patients. <i>Intensive Care Medicine</i> , 2007 , 33, 730-3	14.5	39
86	Evidence-based therapy of severe acute respiratory distress syndrome: an algorithm-guided approach. <i>Journal of International Medical Research</i> , 2008 , 36, 211-21	1.4	33
85	Influenza A (H1N1) vs non-H1N1 ARDS: analysis of clinical course. <i>Journal of Critical Care</i> , 2014 , 29, 340-64		28
84	Muscle wasting and function after muscle activation and early protocol-based physiotherapy: an explorative trial. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2019 , 10, 734-747	10.3	27
83	Efficacy and safety of argatroban in patients with acute respiratory distress syndrome and extracorporeal lung support. <i>Annals of Intensive Care</i> , 2017 , 7, 82	8.9	27
82	Prone position during ECMO is safe and improves oxygenation. <i>International Journal of Artificial Organs</i> , 2013 , 36, 821-32	1.9	27
81	Clinical Requirements of Future Patient Monitoring in the Intensive Care Unit: Qualitative Study. <i>JMIR Medical Informatics</i> , 2019 , 7, e13064	3.6	27
80	Evaluation of PEEP and prone positioning in early COVID-19 ARDS. <i>EClinicalMedicine</i> , 2020 , 28, 100579	11.3	26
79	Addition of acetylsalicylic acid to heparin for anticoagulation management during pumpless extracorporeal lung assist. <i>ASAIO Journal</i> , 2011 , 57, 164-8	3.6	25
78	Measuring Energy Expenditure in extracorporeal lung support Patients (MEEP) - Protocol, feasibility and pilot trial. <i>Clinical Nutrition</i> , 2018 , 37, 301-307	5.9	24
77	Hyperactive delirium and blood glucose control in critically ill patients. <i>Journal of International Medical Research</i> , 2007 , 35, 666-77	1.4	23
76	Gastrointestinal zygomycosis caused by <i>Mucor indicus</i> in a patient with acute traumatic brain injury. <i>Medical Mycology</i> , 2006 , 44, 683-7	3.9	23
75	Extracorporeal lung support in H1N1 provoked acute respiratory failure: the experience of the German ARDS Network. <i>Deutsches A&#x0308;rztblatt International</i> , 2013 , 110, 543-9	2.5	23
74	Long-term outcomes after critical illness: recent insights. <i>Critical Care</i> , 2021 , 25, 108	10.8	23
73	Serum amyloid A1 mediates myotube atrophy via Toll-like receptors. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2020 , 11, 103-119	10.3	23
72	Accuracy, reliability, feasibility and nurse acceptance of a subcutaneous continuous glucose management system in critically ill patients: a prospective clinical trial. <i>Annals of Intensive Care</i> , 2016 , 6, 70	8.9	22

71	Hypercapnia in late-phase ALI/ARDS: providing spontaneous breathing using pumpless extracorporeal lung assist. <i>Intensive Care Medicine</i> , 2009 , 35, 1100-5	14.5	22
70	Prone positioning for ARDS following blunt chest trauma in late pregnancy. <i>International Journal of Obstetric Anesthesia</i> , 2009 , 18, 268-71	2.1	22
69	Bronchial fistulae in ARDS patients: management with an extracorporeal lung assist device. <i>European Respiratory Journal</i> , 2008 , 32, 1652-5	13.6	22
68	Invasive and Non-Invasive Ventilation in Patients With COVID-19. <i>Deutsches A&#x0308;rztblatt International</i> , 2020 , 117, 528-533	2.5	22
67	Muscular weakness and muscle wasting in the critically ill. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2020 , 11, 1399-1412	10.3	22
66	Predictors of survival in critically ill patients with acute respiratory distress syndrome (ARDS): an observational study. <i>BMC Anesthesiology</i> , 2016 , 16, 108	2.4	22
65	The E3 ubiquitin ligase TRIM62 and inflammation-induced skeletal muscle atrophy. <i>Critical Care</i> , 2014 , 18, 545	10.8	21
64	Nucleated red blood cells as predictors of mortality in patients with acute respiratory distress syndrome (ARDS): an observational study. <i>Annals of Intensive Care</i> , 2018 , 8, 42	8.9	20
63	S2k-Guideline "Prolonged Weaning". <i>Pneumologie</i> , 2015 , 69, 595-607	0.5	18
62	Mechanical Ventilation and Extracorporeal Membrane Oxygenation in Acute Respiratory Insufficiency. <i>Deutsches A&#x0308;rztblatt International</i> , 2018 , 115, 840-847	2.5	18
61	6-month mortality and readmissions of hospitalized COVID-19 patients: A nationwide cohort study of 8,679 patients in Germany. <i>PLoS ONE</i> , 2021 , 16, e0255427	3.7	18
60	Outcome of acute respiratory distress syndrome in university and non-university hospitals in Germany. <i>Critical Care</i> , 2017 , 21, 122	10.8	17
59	Secreted Frizzled-Related Protein 2 and Inflammation-Induced Skeletal Muscle Atrophy. <i>Critical Care Medicine</i> , 2017 , 45, e169-e183	1.4	16
58	Severe infections of Pantone-Valentine leukocidin positive <i>Staphylococcus aureus</i> in children. <i>Medicine (United States)</i> , 2019 , 98, e17185	1.8	16
57	Whole-body vibration to prevent intensive care unit-acquired weakness: safety, feasibility, and metabolic response. <i>Critical Care</i> , 2017 , 21, 9	10.8	15
56	Clinical Guideline for Treating Acute Respiratory Insufficiency with Invasive Ventilation and Extracorporeal Membrane Oxygenation: Evidence-Based Recommendations for Choosing Modes and Setting Parameters of Mechanical Ventilation. <i>Respiration</i> , 2019 , 98, 357-372	3.7	15
55	Acute respiratory failure after aspiration of activated charcoal with recurrent deposition and release from an intrapulmonary cavern. <i>Intensive Care Medicine</i> , 2009 , 35, 360-3	14.5	15
54	Critical illness polyneuropathy in ICU patients is related to reduced motor nerve excitability caused by reduced sodium permeability. <i>Intensive Care Medicine Experimental</i> , 2016 , 4, 10	3.7	15

53	Weaning from mechanical ventilation and sedation. <i>Current Opinion in Anaesthesiology</i> , 2012 , 25, 164-9	2.9	14
52	Differential contractile response of critically ill patients to neuromuscular electrical stimulation. <i>Critical Care</i> , 2019 , 23, 308	10.8	13
51	Innovative ICU Solutions to Prevent and Reduce Delirium and Post-Intensive Care Unit Syndrome. <i>Seminars in Respiratory and Critical Care Medicine</i> , 2019 , 40, 673-686	3.9	13
50	High In-Hospital Mortality Rate in Patients with COVID-19 Receiving Extracorporeal Membrane Oxygenation in Germany: A Critical Analysis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021 , 204, 991-994	10.2	13
49	CARbon Dioxide for the treatment of Febrile seizures: rationale, feasibility, and design of the CARDIF-study. <i>Journal of Translational Medicine</i> , 2013 , 11, 157	8.5	11
48	Influence of quality of care and individual patient characteristics on quality of life and return to work in survivors of the acute respiratory distress syndrome: protocol for a prospective, observational, multi-centre patient cohort study (DACAPO). <i>BMC Health Services Research</i> , 2015 , 15, 513	2.9	11
47	Monitoring and parenteral administration of micronutrients, phosphate and magnesium in critically ill patients: The VITA-TRACE survey. <i>Clinical Nutrition</i> , 2021 , 40, 590-599	5.9	11
46	Instruments to measure outcomes of post-intensive care syndrome in outpatient care settings - Results of an expert consensus and feasibility field test. <i>Journal of the Intensive Care Society</i> , 2021 , 22, 159-174	1.6	11
45	Quality of inter-hospital transportation in 431 transport survivor patients suffering from acute respiratory distress syndrome referred to specialist centers. <i>Annals of Intensive Care</i> , 2018 , 8, 5	8.9	10
44	Association between potassium concentrations, variability and supplementation, and in-hospital mortality in ICU patients: a retrospective analysis. <i>Annals of Intensive Care</i> , 2019 , 9, 100	8.9	10
43	Safety and Efficacy of a Novel Pneumatically Driven Extracorporeal Membrane Oxygenation Device. <i>Annals of Thoracic Surgery</i> , 2020 , 109, 1684-1691	2.7	9
42	Bolus or continuous hydrocortisone—that is the question. <i>Critical Care</i> , 2007 , 11, 113	10.8	8
41	Prolonged Weaning: S2k Guideline Published by the German Respiratory Society. <i>Respiration</i> , 2020 , 1-103,7	3.7	8
40	Complete countrywide mortality in COVID patients receiving ECMO in Germany throughout the first three waves of the pandemic. <i>Critical Care</i> , 2021 , 25, 413	10.8	7
39	Sepsis induces interleukin 6, gp130/JAK2/STAT3, and muscle wasting. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2021 ,	10.3	7
38	Collapse induration of alveoli is an ultrastructural finding in a COVID-19 patient. <i>European Respiratory Journal</i> , 2021 , 57,	13.6	7
37	Extracorporeal life support, ethics, and questions at the bedside: how does the end of the pathway look?. <i>Intensive Care Medicine</i> , 2015 , 41, 1714-5	14.5	6
36	Influence of quality of intensive care on quality of life/return to work in survivors of the acute respiratory distress syndrome: prospective observational patient cohort study (DACAPO). <i>BMC Public Health</i> , 2020 , 20, 861	4.1	6

35	German-wide prospective DACAPO cohort of survivors of the acute respiratory distress syndrome (ARDS): a cohort profile. <i>BMJ Open</i> , 2018 , 8, e019342	3	6
34	Adjunctive therapies in severe sepsis and septic shock: current place of steroids. <i>Current Infectious Disease Reports</i> , 2008 , 10, 354-61	3.9	6
33	Critical Illness and Systemic Inflammation Are Key Risk Factors of Severe Acute Kidney Injury in Patients With COVID-19. <i>Kidney International Reports</i> , 2021 , 6, 905-915	4.1	6
32	(13) C Breath Tests Are Feasible in Patients With Extracorporeal Membrane Oxygenation Devices. <i>Artificial Organs</i> , 2016 , 40, 692-8	2.6	6
31	Key summary of German national treatment guidance for hospitalized COVID-19 patients : Key pharmacologic recommendations from a national German living guideline using an Evidence to Decision Framework (last updated 17.05.2021). <i>Infection</i> , 2021 , 1	5.8	6
30	Characteristics and provision of care of patients with the acute respiratory distress syndrome: descriptive findings from the DACAPO cohort baseline and comparison with international findings. <i>Journal of Thoracic Disease</i> , 2017 , 9, 818-830	2.6	5
29	Ventilatory support versus ECMO for severe adult respiratory failure. <i>Lancet, The</i> , 2010 , 375, 549-50; author reply 551	4.0	5
28	Timing, Outcome, and Risk Factors of Intracranial Hemorrhage in Acute Respiratory Distress Syndrome Patients During Venovenous Extracorporeal Membrane Oxygenation. <i>Critical Care Medicine</i> , 2021 , 49, e120-e129	1.4	5
27	Tracheostomy in patients with acute respiratory distress syndrome is not related to quality of life, symptoms of psychiatric disorders or return-to-work: the prospective DACAPO cohort study. <i>Annals of Intensive Care</i> , 2020 , 10, 52	8.9	4
26	Perioperatively Acquired Weakness. <i>Anesthesia and Analgesia</i> , 2020 , 130, 341-351	3.9	4
25	"Ideal PEEP" is superior to high dose partial liquid ventilation with low PEEP in experimental acute lung injury. <i>Intensive Care Medicine</i> , 2001 , 27, 1937-48	14.5	3
24	The quality of acute intensive care and the incidence of critical events have an impact on health-related quality of life in survivors of the acute respiratory distress syndrome - a nationwide prospective multicenter observational study. <i>GMS German Medical Science</i> , 2020 , 18, Doc01	3.2	3
23	Clinical management and outcome of adult patients with extracorporeal life support device-associated intracerebral hemorrhage-a neurocritical perspective and grading. <i>Neurosurgical Review</i> , 2021 , 44, 2879-2888	3.9	3
22	COVID-19 Patients Require Prolonged Extracorporeal Membrane Oxygenation Support for Survival Compared With Non-COVID-19 Patients. 2022 , 4, e0671		3
21	Impact of protocol-based physiotherapy on insulin sensitivity and peripheral glucose metabolism in critically ill patients.. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2022 ,	10.3	2
20	Observational study of changes in utilization and outcomes in mechanical ventilation in COVID-19.. <i>PLoS ONE</i> , 2022 , 17, e0262315	3.7	2
19	Conservative management of COVID-19 associated hypoxaemia. <i>ERJ Open Research</i> , 2021 , 7,	3.5	2
18	Predicting lethal courses in critically ill COVID-19 patients using a machine learning model trained on patients with non-COVID-19 viral pneumonia. <i>Scientific Reports</i> , 2021 , 11, 13205	4.9	2

17	Critical illness myopathy precedes hyperglycaemia and high glucose variability. <i>Journal of Critical Care</i> , 2021 , 63, 32-39	4	2
16	The role of cell-free hemoglobin and haptoglobin in acute kidney injury in critically ill adults with ARDS and therapy with VV ECMO.. <i>Critical Care</i> , 2022 , 26, 50	10.8	2
15	Acute right heart decompensation in a multiple trauma patient with chronic pulmonary hypertension. <i>Intensive Care Medicine</i> , 2011 , 37, 723-4	14.5	1
14	Lower versus higher hemoglobin threshold for transfusion in ARDS patients with and without ECMO. <i>Critical Care</i> , 2020 , 24, 697	10.8	1
13	A Remote Patient-Monitoring System for Intensive Care Medicine: Mixed Methods Human-Centered Design and Usability Evaluation.. <i>JMIR Human Factors</i> , 2022 , 9, e30655	2.5	1
12	Stationäre Behandlung der Covid-19-Patienten in den ersten drei Pandemiewellen in Deutschland: Was hat sich verändert? 2022 , 63-74		1
11	Dynamic thromboembolic left ventricular outflow tract obstruction after aggressive procoagulant treatment in hemorrhagic shock: a case report. <i>Journal of Medical Case Reports</i> , 2021 , 15, 269	1.2	0
10	Assessment of magnetic flux density properties of electromagnetic noninvasive phrenic nerve stimulations for environmental safety in an ICU environment. <i>Scientific Reports</i> , 2021 , 11, 16317	4.9	0
9	Reply: To PMID 24415656. <i>Muscle and Nerve</i> , 2015 , 51, 625-6	3.4	
8	Einsatz von Muskelrelaxanzien im Frühstadium des akuten Lungenversagens. <i>Intensivmedizin Und Notfallmedizin</i> , 2011 , 48, 226-228		
7	Nonexcitable muscle membrane predicts intensive care unit-acquired paresis in mechanically ventilated, sedated patients. <i>Critical Care Medicine</i> , 2010 , 38, 1234	1.4	
6	Pumpless extracorporeal lung assist in patients with acute respiratory distress syndrome. <i>Critical Care Medicine</i> , 2007 , 35, 326; author reply 326	1.4	
5	Critical Illness Neuromuscular Abnormalities in Patients with Acute Respiratory Distress Syndrome. <i>Critical Care Medicine</i> , 2005 , 33, 2724-2725	1.4	
4	Creation of an Evidence-Based Implementation Framework for Digital Health Technology in the Intensive Care Unit: Qualitative Study.. <i>JMIR Formative Research</i> , 2022 , 6, e22866	2.5	
3	Strategien in der Respiratorentwöhnung 2018 , 21-32		
2	Neuromyopathy: Histological and Molecular Findings. <i>Lessons From the ICU</i> , 2020 , 61-72	0.1	
1	In vitro validation and characterization of pulsed inhaled nitric oxide administration during early inspiration. <i>Journal of Clinical Monitoring and Computing</i> , 2021 , 1	2	