

# Hergen Buscher

## List of Publications by Year in descending order

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Version: 2024-02-01

85  
papers

1,610  
citations

430754

18  
h-index

315616

38  
g-index

88  
all docs

88  
docs citations

88  
times ranked

2392  
citing authors

#	ARTICLE	IF	CITATIONS
1	Too much of a good thing: a retrospective study of $\hat{\text{I}}^2$ -lactam concentration-toxicity relationships. <i>Journal of Antimicrobial Chemotherapy</i> , 2017, 72, 2891-2897.	1.3	188
2	Duration of veno-arterial extracorporeal life support (VA ECMO) and outcome: an analysis of the Extracorporeal Life Support Organization (ELSO) registry. <i>Critical Care</i> , 2017, 21, 45.	2.5	151
3	Adjunctive Intermittent Pneumatic Compression for Venous Thromboprophylaxis. <i>New England Journal of Medicine</i> , 2019, 380, 1305-1315.	13.9	149
4	Prospective Observational Study of Hemostatic Alterations During Adult Extracorporeal Membrane Oxygenation (ECMO) Using Point-of-Care Thromboelastometry and Platelet Aggregometry. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2015, 29, 288-296.	0.6	91
5	ASAP ECMO: Antibiotic, Sedative and Analgesic Pharmacokinetics during Extracorporeal Membrane Oxygenation: a multi-centre study to optimise drug therapy during ECMO. <i>BMC Anesthesiology</i> , 2012, 12, 29.	0.7	90
6	Effects of Hypercapnia and Hypercapnic Acidosis on Hospital Mortality in Mechanically Ventilated Patients*. <i>Critical Care Medicine</i> , 2017, 45, e649-e656.	0.4	66
7	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
8	Cost effectiveness and quality of life analysis of extracorporeal cardiopulmonary resuscitation (ECPR) for refractory cardiac arrest. <i>Resuscitation</i> , 2019, 139, 49-56.	1.3	62
9	Lack of association between body weight and mortality in patients on veno-venous extracorporeal membrane oxygenation. <i>Intensive Care Medicine</i> , 2013, 39, 1995-2002.	3.9	55
10	Influence of different release times on spontaneous breathing pattern during airway pressure release ventilation. <i>Intensive Care Medicine</i> , 2002, 28, 1742-1749.	3.9	52
11	Sedation Practice in Veno-Venous Extracorporeal Membrane Oxygenation. <i>ASAIO Journal</i> , 2013, 59, 636-641.	0.9	51
12	Effect of low-level PEEP on inspiratory work of breathing in intubated patients, both with healthy lungs and with COPD. <i>Intensive Care Medicine</i> , 1995, 21, 887-895.	3.9	47
13	Association of Hypercapnia and Hypercapnic Acidosis With Clinical Outcomes in Mechanically Ventilated Patients With Cerebral Injury. <i>JAMA Neurology</i> , 2018, 75, 818.	4.5	42
14	Ventilatory settings in the initial 72h and their association with outcome in out-of-hospital cardiac arrest patients: a preplanned secondary analysis of the targeted hypothermia versus targeted normothermia after out-of-hospital cardiac arrest (TTM2) trial. <i>Intensive Care Medicine</i> , 2022, 48, 1024-1038.	3.9	31
15	Blood and Anticoagulation Management in Extracorporeal Membrane Oxygenation for Surgical and Nonsurgical Patients: A Single-Center Retrospective Review. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2017, 31, 869-875.	0.6	29
16	An evaluation of risk factors to predict target concentration non-attainment in critically ill patients prior to empiric $\hat{\text{I}}^2$ -lactam therapy. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2018, 37, 2171-2175.	1.3	22
17	Towards precision dosing of vancomycin in critically ill patients: an evaluation of the predictive performance of pharmacometric models in ICU patients. <i>Clinical Microbiology and Infection</i> , 2021, 27, 783.e7-783.e14.	2.8	21
18	An appraisal of respiratory system compliance in mechanically ventilated covid-19 patients. <i>Critical Care</i> , 2021, 25, 199.	2.5	21

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19	Prospective observational study of mechanical cardiopulmonary resuscitation, extracorporeal membrane oxygenation and early reperfusion for refractory cardiac arrest in Sydney: the 2CHEER study. <i>Critical Care and Resuscitation: Journal of the Australasian Academy of Critical Care Medicine</i> , 2020, 22, 26-34.	0.0	18
20	Medication Error Minimization Scheme (MEMS) in an adult tertiary Intensive Care Unit (ICU) 2009–2011. <i>Australian Critical Care</i> , 2013, 26, 58-75.	0.6	17
21	Prolonged venovenous extracorporeal membrane oxygenation without anticoagulation: a case of Goodpasture syndrome-related pulmonary haemorrhage. <i>Critical Care and Resuscitation: Journal of the Australasian Academy of Critical Care Medicine</i> , 2014, 16, 69-72.	0.0	17
22	Extubate Before Venovenous Extracorporeal Membranous Oxygenation Decannulation or Decannulate While Remaining on the Ventilator? The EuroELSO 2019 Weaning Survey. <i>ASAIO Journal</i> , 2021, 67, e86-e89.	0.9	16
23	Long-Term Survival, Posttraumatic Stress, and Quality of Life post Extracorporeal Membrane Oxygenation. <i>ASAIO Journal</i> , 2020, 66, 909-914.	0.9	15
24	Lung ultrasound score as an indicator of dynamic lung compliance during veno-venous extra-corporeal membrane oxygenation. <i>International Journal of Artificial Organs</i> , 2021, 44, 194-198.	0.7	15
25	Extracorporeal Membrane Oxygenation for ARDS in Adults. <i>New England Journal of Medicine</i> , 2012, 366, 575-576.	13.9	14
26	Statistical analysis plan for the Pneumatic CompREssion for PreVENTing Venous Thromboembolism (PREVENT) trial: a study protocol for a randomized controlled trial. <i>Trials</i> , 2018, 19, 182.	0.7	13
27	Fluid Balance and Recovery of Native Lung Function in Adult Patients Supported by Venovenous Extracorporeal Membrane Oxygenation and Continuous Renal Replacement Therapy. <i>ASAIO Journal</i> , 2019, 65, 614-619.	0.9	13
28	Comparison of ventilatory and haemodynamic effects of BIPAP and S-IMV/PSV for postoperative short-term ventilation in patients after coronary artery bypass grafting. <i>European Journal of Anaesthesiology</i> , 2000, 17, 601-610.	0.7	13
29	Prospective observational study of mechanical cardiopulmonary resuscitation, extracorporeal membrane oxygenation and early reperfusion for refractory cardiac arrest in Sydney: the 2CHEER study. <i>Critical Care and Resuscitation: Journal of the Australasian Academy of Critical Care Medicine</i> , 2020, 22, 26-34.	0.0	13
30	A Systematic Literature Review of Packed Red Cell Transfusion Usage in Adult Extracorporeal Membrane Oxygenation. <i>Membranes</i> , 2021, 11, 251.	1.4	12
31	Population pharmacokinetics of cefepime in critically ill patients receiving extracorporeal membrane oxygenation (an ASAP ECMO study). <i>International Journal of Antimicrobial Agents</i> , 2021, 58, 106466.	1.1	12
32	Comparison of ventilatory and haemodynamic effects of BIPAP and S-IMV/PSV for postoperative short-term ventilation in patients after coronary artery bypass grafting. <i>European Journal of Anaesthesiology</i> , 2000, 17, 601-610.	0.7	10
33	Assessment of Diaphragmatic Function with Cervical Magnetic Stimulation in Critically Ill Patients. <i>Anaesthesia and Intensive Care</i> , 2005, 33, 483-491.	0.2	10
34	Current Limitations of the Assessment of Haemostasis in Adult Extracorporeal Membrane Oxygenation Patients and the Role of Point-of-Care Testing. <i>Anaesthesia and Intensive Care</i> , 2016, 44, 669-680.	0.2	10
35	Protocol-driven daily optimisation of venovenous extracorporeal membrane oxygenation blood flows: an alternate paradigm?. <i>Journal of Thoracic Disease</i> , 2020, 12, 6854-6860.	0.6	10
36	Pandemic (H1N1) 2009 influenza, pregnancy and extracorporeal membrane oxygenation. <i>Medical Journal of Australia</i> , 2010, 192, 668-668.	0.8	9

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37	Physical restraint of patients in Australia and New Zealand intensive care units. <i>Intensive Care Medicine</i> , 2021, 47, 234-236.	3.9	9
38	Population Pharmacokinetics of Piperacillin and Tazobactam in Critically Ill Patients Receiving Extracorporeal Membrane Oxygenation: an ASAP ECMO Study. <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, e0143821.	1.4	9
39	CNS Complications in Adult Patients Treated With Extracorporeal Membrane Oxygenation. <i>Critical Care Medicine</i> , 2021, 49, 282-291.	0.4	8
40	Population Pharmacokinetics and Dosing Simulations of Ceftriaxone in Critically Ill Patients Receiving Extracorporeal Membrane Oxygenation (An ASAP ECMO Study). <i>Clinical Pharmacokinetics</i> , 2022, 61, 847-856.	1.6	8
41	Thoracic ultrasound influences physiotherapist's clinical decision-making in respiratory management of critical care patients: a multicentre cohort study. <i>Thorax</i> , 2023, 78, 169-175.	2.7	8
42	Neuromuscular effects of rapacuronium on the diaphragm and skeletal muscles in anaesthetized patients using cervical magnetic stimulation for stimulating the phrenic nerves. <i>European Journal of Anaesthesiology</i> , 2002, 19, 883-887.	0.7	7
43	Population Pharmacokinetics of Vancomycin in Critically Ill Adult Patients Receiving Extracorporeal Membrane Oxygenation (an ASAP ECMO Study). <i>Antimicrobial Agents and Chemotherapy</i> , 2022, 66, AAC0137721.	1.4	7
44	The effect of a structured ECPR protocol aided by specific simulation training in a quaternary ECMO centre: A retrospective pre-post study. <i>Resuscitation Plus</i> , 2022, 10, 100234.	0.6	7
45	Rapid Translation of COVID-19 Preprint Data into Critical Care Practice. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 203, 368-371.	2.5	6
46	Neuromuscular effects of rapacuronium on the diaphragm and skeletal muscles in anaesthetized patients using cervical magnetic stimulation for stimulating the phrenic nerves. <i>European Journal of Anaesthesiology</i> , 2002, 19, 883.	0.7	6
47	A pilot, randomised controlled trial of a rotational thromboelastometry-based algorithm to treat bleeding episodes in extracorporeal life support: the TEM Protocol in ECLS Study (TEMPEST). <i>Critical Care and Resuscitation: Journal of the Australasian Academy of Critical Care Medicine</i> , 2017, 19, 29-36.	0.0	5
48	HEROES Vâ€œVâ€œHEmorRhagic cOmplications in Venoâ€œVenous Extracorporeal life Supportâ€œDevelopment and internal validation of multivariable prediction model in adult patients. <i>Artificial Organs</i> , 2022, 46, 932-952.	1.0	5
49	Who takes the lead in critically ill patients?. <i>European Journal of Anaesthesiology</i> , 2018, 35, 232-233.	0.7	4
50	Vitamin D Status and Supplementation in Adult Patients Receiving Extracorporeal Membrane Oxygenation. <i>Anaesthesia and Intensive Care</i> , 2018, 46, 589-595.	0.2	4
51	Nosocomial infection prevalence in patients undergoing extracorporeal membrane oxygenation (ECMO): protocol for a point prevalence study across Australia and New Zealand. <i>BMJ Open</i> , 2019, 9, e029293.	0.8	4
52	Long-term Outcome in Severe Left Ventricular Primary Graft Dysfunction Post Cardiac Transplantation Supported by Early Use of Extracorporeal Membrane Oxygenation. <i>Transplantation</i> , 2020, 104, 2189-2195.	0.5	4
53	Early experience of a new extracorporeal carbon dioxide removal device for acute hypercapnic respiratory failure. <i>Critical Care and Resuscitation: Journal of the Australasian Academy of Critical Care Medicine</i> , 2016, 18, 261-269.	0.0	4
54	Incremental research approach to describing the pharmacokinetics of ciprofloxacin during extracorporeal membrane oxygenation. <i>Critical Care and Resuscitation: Journal of the Australasian Academy of Critical Care Medicine</i> , 2017, 19, 8-14.	0.0	4

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55	Pressure signal transmission of five commercially available oesophageal balloon catheters. Intensive Care Medicine, 2000, 26, 462-465.	3.9	3
56	Multiple episodes of aspirin overdose in an individual patient: a case report. Journal of Medical Case Reports, 2014, 8, 374.	0.4	3
57	A retrospective audit of insulin infusion management involving a locally developed dynamic insulin infusion guideline in a tertiary ICU. Australian Critical Care, 2015, 28, 149-159.	0.6	3
58	Extracorporeal Membrane Oxygenation: An Expanding Role in Cardiovascular Care. Heart Lung and Circulation, 2018, 27, 3-5.	0.2	3
59	Out-of-hospital cardiac arrest outcomes, end-tidal carbon dioxide and extracorporeal cardiopulmonary resuscitation eligibility: New South Wales pilot data. EMA - Emergency Medicine Australasia, 2022, 34, 452-455.	0.5	3
60	Population pharmacokinetics of ciprofloxacin in critically ill patients receiving extracorporeal membrane oxygenation (an ASAP ECMO study). Anaesthesia, Critical Care & Pain Medicine, 2022, , 101080.	0.6	3
61	HEROES V&A: HEMorrhagic cOmplications in veno&A;rterial Extracorporeal life Support: Development and internal validation of a multivariable prediction model in adult patients. Artificial Organs, 2022, 46, 2266-2283.	1.0	3
62	Investigation of Watershed Areas During Femoro-Femoral Venous Extracorporeal Membrane Oxygenation (VA-ECMO) Using a Mock Loop Circuit. Journal of Heart and Lung Transplantation, 2017, 36, S384.	0.3	2
63	Design and Rationale of a Prospective International Follow-Up Study on Intensive Care Survivors of COVID-19: The Long-Term Impact in Intensive Care Survivors of Coronavirus Disease-19&AQUO"ATERCOR. Frontiers in Medicine, 2021, 8, 738086.	1.2	2
64	The effect of intermittent pneumatic compression on deep-vein thrombosis and ventilation-free days in critically ill patients with heart failure. Scientific Reports, 2022, 12, .	1.6	2
65	Die Behandlung einer akuten Linksherzinsuffizienz bei Subarachnoidalblutung mit Phosphodiesterasehemmern. Intensivmedizin Und Notfallmedizin, 1999, 36, 300-303.	0.2	1
66	Postoperative Nachbeatmung nach aortokoronaren Bypassoperationen: Vergleich zweier Beatmungsverfahren mit der M&AQUO;glichkeit der Spontanatmung, BIPAP und S-IMV/PSV. Zeitschrift Fur Herz-, Thorax- Und Gefasschirurgie, 2000, 14, 252-257.	0.0	1
67	Nosocomial Infection Rates in Patients Receiving Extracorporeal Membrane Oxygenation Across Australia and New Zealand: An Interim Analysis. Australian Critical Care, 2019, 32, S12.	0.6	1
68	Atemarbeit bei Patienten mit und ohne chronisch-obstruktiver Lungenerkrankung unter druckunterst&AQUO;tzter Beatmung mit geringem PEEP. Intensivmedizin Und Notfallmedizin, 1999, 36, 197-202.	0.2	0
69	Cardiac arrest: Time matters&AQUO"Does time of day too?. Resuscitation, 2011, 82, 649-650.	1.3	0
70	The medication error minimisation scheme (MEMS). Australian Critical Care, 2013, 26, 89.	0.6	0
71	Is peripheral arterial waveform analysis continuous cardiac output monitoring useful with assessment of oxygenation status for patients on veno&AQUO"venous extracorporeal membrane oxygenation?. Australian Critical Care, 2013, 26, 87.	0.6	0
72	ECMO in an Australian tertiary ICU: A four year review. Australian Critical Care, 2014, 27, 47.	0.6	0

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73	Evaluation of a locally developed dynamic insulin infusion protocol. Australian Critical Care, 2014, 27, 51.	0.6	0
74	Quality of life post extracorporeal membrane oxygenation in one Australian intensive care unit. Australian Critical Care, 2014, 27, 44.	0.6	0
75	The Medication Error Minimisation Scheme in a tertiary intensive care unit 2009–2014. Australian Critical Care, 2015, 28, 46.	0.6	0
76	Extracorporeal Membrane Oxygenation for Severe Primary Graft Dysfunction After Lung Transplantation: Short- and Long-Term Outcome and Quality of Life. Journal of Heart and Lung Transplantation, 2015, 34, S258.	0.3	0
77	Early outcomes following implementation of confusion assessment method (CAM)-ICU and a delirium management protocol to guide quality improvement. Australian Critical Care, 2015, 28, 46.	0.6	0
78	Veno-Arterial Extracorporeal Membrane Oxygenation (VA-ECMO) as a bridge to a mechanical ventricular assist device (VAD) as a bridge to transplantation (BTT). Australian Critical Care, 2016, 29, 122.	0.6	0
79	Confounding variables impacting the association between duration of veno-arterial extracorporeal life support and mortality. Critical Care, 2017, 21, 203.	2.5	0
80	VV ECMO parameters and outcomes. Australian Critical Care, 2018, 31, 130.	0.6	0
81	Sound and light in ICU during different environmental conditions. Australian Critical Care, 2018, 31, 135.	0.6	0
82	Coagulopathy and transfusion requirements in adult patients treated with extracorporeal life support (ECLS). Australian Critical Care, 2018, 31, 129-130.	0.6	0
83	Radiologically Confirmed Neurological Complications in Adult Ecmo Patients – The Experience of an Ecmo Referral Centre. Australian Critical Care, 2019, 32, S9-S10.	0.6	0
84	A single center retrospective review of haematological profiles and blood product transfusions of patients on different ecmo modalities between 2007-2016. Australian Critical Care, 2020, 33, S26-S27.	0.6	0
85	Longitudinal Trends in Bleeding Complications on Extracorporeal Life Support (ECLS) Over the Past Two Decades – ELSO Registry Analysis. SSRN Electronic Journal, 0, , .	0.4	0