

# Axel Nierhaus

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

5,616  
citations

159585

30  
h-index

91884

69  
g-index

73  
all docs

73  
docs citations

73  
times ranked

9974  
citing authors

#	ARTICLE	IF	CITATIONS
1	Autopsy Findings and Venous Thromboembolism in Patients With COVID-19. <i>Annals of Internal Medicine</i> , 2020, 173, 268-277.	3.9	1,954
2	Effect of Sodium Selenite Administration and Procalcitonin-Guided Therapy on Mortality in Patients With Severe Sepsis or Septic Shock. <i>JAMA Internal Medicine</i> , 2016, 176, 1266.	5.1	217
3	Use of polyclonal immunoglobulins as adjunctive therapy for sepsis or septic shock*. <i>Critical Care Medicine</i> , 2007, 35, 2677-2685.	0.9	209
4	Effect of Empirical Treatment With Moxifloxacin and Meropenem vs Meropenem on Sepsis-Related Organ Dysfunction in Patients With Severe Sepsis. <i>JAMA - Journal of the American Medical Association</i> , 2012, 307, 2390.	7.4	201
5	Effect of Hydrocortisone on Development of Shock Among Patients With Severe Sepsis. <i>JAMA - Journal of the American Medical Association</i> , 2016, 316, 1775.	7.4	197
6	Avoiding invasive mechanical ventilation by extracorporeal carbon dioxide removal in patients failing noninvasive ventilation. <i>Intensive Care Medicine</i> , 2012, 38, 1632-1639.	8.2	172
7	Reversal of immunoparalysis by recombinant human granulocyte-macrophage colony-stimulating factor in patients with severe sepsis. <i>Intensive Care Medicine</i> , 2003, 29, 646-651.	8.2	156
8	Evolution of Donor Morbidity in Living Related Liver Transplantation. <i>Annals of Surgery</i> , 2004, 240, 1013-1026.	4.2	148
9	Extracorporeal cytokine elimination as rescue therapy in refractory septic shock: a prospective single-center study. <i>Journal of Artificial Organs</i> , 2017, 20, 252-259.	0.9	135
10	Sepsisâ€™ Pathophysiology and Therapeutic Concepts. <i>Frontiers in Medicine</i> , 2021, 8, 628302.	2.6	133
11	Tracheostomy in the Intensive Care Unit: A Nationwide Survey. <i>Anesthesia and Analgesia</i> , 2008, 107, 1639-1643.	2.2	131
12	The feasibility and safety of extracorporeal carbon dioxide removal to avoid intubation in patients with COPD unresponsive to noninvasive ventilation for acute hypercapnic respiratory failure (ECLAIRâ€™study): multicentre caseâ€™control study. <i>Intensive Care Medicine</i> , 2016, 42, 1437-1444.	8.2	126
13	Virtual Autopsy as an Alternative to Traditional Medical Autopsy in the Intensive Care Unit. <i>Annals of Internal Medicine</i> , 2012, 156, 123.	3.9	111
14	Use of polyclonal immunoglobulins as adjunctive therapy for sepsis or septic shock. <i>Critical Care Medicine</i> , 2007, 35, 2677-85.	0.9	109
15	Decreased serum concentrations of sphingosine-1-phosphate in sepsis. <i>Critical Care</i> , 2015, 19, 372.	5.8	108
16	Human leucocyte antigen (HLA-DR) gene expression is reduced in sepsis and correlates with impaired TNFÎ± response: A diagnostic tool for immunosuppression?. <i>PLoS ONE</i> , 2017, 12, e0182427.	2.5	99
17	Effect of therapeutic drug monitoring-based dose optimization of piperacillin/tazobactam on sepsis-related organ dysfunction in patients with sepsis: a randomized controlled trial. <i>Intensive Care Medicine</i> , 2022, 48, 311-321.	8.2	91
18	Revisiting the white blood cell count: immature granulocytes count as a diagnostic marker to discriminate between SIRS and sepsis - a prospective, observational study. <i>BMC Immunology</i> , 2013, 14, 8.	2.2	86

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19	The use of mid-regional proadrenomedullin to identify disease severity and treatment response to sepsis - a secondary analysis of a large randomised controlled trial. <i>Critical Care</i> , 2018, 22, 79.	5.8	79
20	Mechanical ventilation and mortality among 223 critically ill patients with coronavirus disease 2019: A multicentric study in Germany. <i>Australian Critical Care</i> , 2021, 34, 167-175.	1.3	77
21	Markers of nitric oxide are associated with sepsis severity: an observational study. <i>Critical Care</i> , 2017, 21, 189.	5.8	66
22	41.8Å°C whole body hyperthermia as an adjunct to chemotherapy induces prolonged T cell activation in patients with various malignant diseases. <i>Cancer Immunology, Immunotherapy</i> , 2002, 51, 603-613.	4.2	57
23	High estradiol and low testosterone levels are associated with critical illness in male but not in female COVID-19 patients: a retrospective cohort study. <i>Emerging Microbes and Infections</i> , 2021, 10, 1807-1818.	6.5	54
24	In vitro removal of anti-infective agents by a novel cytokine adsorbent system. <i>International Journal of Artificial Organs</i> , 2019, 42, 57-64.	1.4	51
25	Safety of percutaneous dilatational tracheostomy in patients on extracorporeal lung support. <i>Intensive Care Medicine</i> , 2013, 39, 1792-1799.	8.2	50
26	Sphingosine-1-Phosphate. <i>Shock</i> , 2017, 47, 666-672.	2.1	46
27	Comparison of clinical characteristics and disease outcome of COVID-19 and seasonal influenza. <i>Scientific Reports</i> , 2021, 11, 5803.	3.3	40
28	Loss of sphingosine 1-phosphate (S1P) in septic shock is predominantly caused by decreased levels of high-density lipoproteins (HDL). <i>Journal of Intensive Care</i> , 2019, 7, 23.	2.9	37
29	Replication of SARS-CoV-2 in adipose tissue determines organ and systemic lipid metabolism in hamsters and humans. <i>Cell Metabolism</i> , 2022, 34, 1-2.	16.2	37
30	Serial monitoring of interleukin-1?, soluble interleukin-2 receptor and lipopolysaccharide binding protein levels after death. <i>International Journal of Legal Medicine</i> , 2005, 119, 80-87.	2.2	35
31	Best-practice IgM- and IgA-enriched immunoglobulin use in patients with sepsis. <i>Annals of Intensive Care</i> , 2020, 10, 132.	4.6	31
32	Hepatic Vasculopathy and Regenerative Responses of the Liver in Fatal Cases of COVID-19. <i>Clinical Gastroenterology and Hepatology</i> , 2021, 19, 1726-1729.e3.	4.4	30
33	Do centrally pre-prepared solutions achieve more reliable drug concentrations than solutions prepared on the ward?. <i>Intensive Care Medicine</i> , 2011, 37, 1311-1316.	8.2	28
34	Pharmacokinetics of meropenem in septic patients on sustained low-efficiency dialysis: a population pharmacokinetic study. <i>Critical Care</i> , 2018, 22, 25.	5.8	28
35	Symmetrical (SDMA) and asymmetrical dimethylarginine (ADMA) in sepsis: high plasma levels as combined risk markers for sepsis survival. <i>Critical Care</i> , 2018, 22, 216.	5.8	27
36	Clinical Features of Critically Ill Patients With Shiga Toxinâ€“Induced Hemolytic Uremic Syndrome. <i>Critical Care Medicine</i> , 2013, 41, 1702-1710.	0.9	26

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37	Advanced Hemodynamic Management in Patients with Septic Shock. <i>BioMed Research International</i> , 2016, 2016, 1-11.	1.9	26
38	Use of Intravenous Immunoglobulins in Sepsis Therapy—A Clinical View. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5543.	4.1	26
39	Targeting Endothelial Dysfunction in Eight Extreme-Critically Ill Patients with COVID-19 Using the Anti-Adrenomedullin Antibody Adrecizumab (HAM8101). <i>Biomolecules</i> , 2020, 10, 1171.	4.0	21
40	Population pharmacokinetics and dosing simulations of ceftazidime in critically ill patients receiving sustained low-efficiency dialysis. <i>Journal of Antimicrobial Chemotherapy</i> , 2017, 72, 1433-1440.	3.0	20
41	A rare case of septic shock due to <i>Neisseria meningitidis</i> serogroup B infection despite prior vaccination in a young adult with paroxysmal nocturnal haemoglobinuria receiving eculizumab. <i>Vaccine</i> , 2018, 36, 2507-2509.	3.8	20
42	Severe liver dysfunction complicating course of COVID-19 in the critically ill: multifactorial cause or direct viral effect?. <i>Annals of Intensive Care</i> , 2021, 11, 44.	4.6	20
43	Patient Characteristics and Clinical Course of COVID-19 Patients Treated at a German Tertiary Center during the First and Second Waves in the Year 2020. <i>Journal of Clinical Medicine</i> , 2021, 10, 2274.	2.4	19
44	S1P lyase inhibition protects against sepsis by promoting disease tolerance via the S1P/S1PR3 axis. <i>EBioMedicine</i> , 2020, 58, 102898.	6.1	17
45	Effects of whole body hyperthermia (41.8 degrees C) on the frequency of tumor cells in the peripheral blood of patients with advanced malignancies. <i>Clinical Cancer Research</i> , 2003, 9, 2079-84.	7.0	17
46	Interventional lung assist enables lung protective mechanical ventilation in acute respiratory distress syndrome. <i>Minerva Anestesiologica</i> , 2011, 77, 797-801.	1.0	17
47	Safety of percutaneous dilational tracheostomy in hematopoietic stem cell transplantation recipients requiring long-term mechanical ventilation. <i>Journal of Critical Care</i> , 2008, 23, 394-398.	2.2	16
48	The use of extracorporeal carbon dioxide removal to avoid intubation in patients failing non-invasive ventilation—a cost analysis. <i>BMC Anesthesiology</i> , 2015, 15, 160.	1.8	15
49	MR-proAdrenomedullin as a predictor of renal replacement therapy in a cohort of critically ill patients with COVID-19. <i>Biomarkers</i> , 2021, 26, 417-424.	1.9	14
50	Chronic Critical Illness in Patients with COVID-19: Characteristics and Outcome of Prolonged Intensive Care Therapy. <i>Journal of Clinical Medicine</i> , 2022, 11, 1049.	2.4	13
51	Personalized medicine with IgGAM compared with standard of care for treatment of peritonitis after infectious source control (the PEPPER trial): study protocol for a randomized controlled trial. <i>Trials</i> , 2019, 20, 156.	1.6	12
52	Single-dose of adrecizumab versus placebo in acute cardiogenic shock (ACCOST-HH): an investigator-initiated, randomised, double-blinded, placebo-controlled, multicentre trial. <i>Lancet Respiratory Medicine</i> , 2022, 10, 247-254.	10.7	12
53	Clinical Characteristics, Complications and Outcomes of Patients with Severe Acute Respiratory Distress Syndrome Related to COVID-19 or Influenza Requiring Extracorporeal Membrane Oxygenation—A Retrospective Cohort Study. <i>Journal of Clinical Medicine</i> , 2021, 10, 5440.	2.4	10
54	Predicting the requirement for renal replacement therapy in intensive care patients with sepsis. <i>Critical Care</i> , 2018, 22, 201.	5.8	9

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55	Multi-dimensional and longitudinal systems profiling reveals predictive pattern of severe COVID-19. <i>IScience</i> , 2021, 24, 102752.	4.1	9
56	Sepsis: Diagnostic and Therapeutic Challenges. <i>BioMed Research International</i> , 2016, 2016, 1-2.	1.9	8
57	Intravenous IgM-enriched immunoglobulins in critical COVID-19: a multicentre propensity-weighted cohort study. <i>Critical Care</i> , 2022, 26, .	5.8	7
58	Tumor oxygenation under combined whole-body-hyperthermia and polychemotherapy in a case of recurrent carcinoma of the oral cavity. <i>European Archives of Oto-Rhino-Laryngology</i> , 2002, 259, 27-31.	1.6	6
59	Ventilation performance of a mixed group of operators using a new rescue breathing device—the glossopalatal tube. <i>Resuscitation</i> , 2003, 59, 197-202.	3.0	6
60	Cerebrovascular autoregulation and arterial carbon dioxide in patients with acute respiratory distress syndrome: a prospective observational cohort study. <i>Annals of Intensive Care</i> , 2021, 11, 47.	4.6	6
61	Effect of flunarizine on cerebral blood flow in baboons with or without focal cerebral ischaemia. <i>Neurological Research</i> , 1990, 12, 60-62.	1.3	5
62	Dynamics of Vascular Protective and Immune Supportive Sphingosine-1-Phosphate During Cardiac Surgery. <i>Frontiers in Immunology</i> , 2021, 12, 761475.	4.8	4
63	Monitoring of whole-body hyperthermia with transesophageal echocardiography (TEE). <i>International Journal of Hyperthermia</i> , 2007, 23, 457-466.	2.5	3
64	The Effects of Ex Vivo Administration of Granulocyte-Macrophage Colony-Stimulating Factor and Endotoxin on Cytokine Release of Whole Blood Are Determined by Priming Conditions. <i>BioMed Research International</i> , 2017, 2017, 1-10.	1.9	2
65	“Anal angina” pelvic sepsis and streptococcal toxic shock syndrome after rectoscopy and mucosal biopsy. <i>International Journal of Colorectal Disease</i> , 2008, 23, 225-226.	2.2	1
66	Prospective Comparison of Three Risk Score Models at Three Different Surgical Intensive Care Units. <i>Shock</i> , 2013, 40, 95-100.	2.1	1
67	Perforation of the ascending colon during implantation of an indwelling peritoneal catheter: a case report. <i>BMC Gastroenterology</i> , 2020, 20, 345.	2.0	1
68	Characteristics and Risk Factors for Intensive Care Unit Cardiac Arrest in Critically Ill Patients with COVID-19—A Retrospective Study. <i>Journal of Clinical Medicine</i> , 2021, 10, 2195.	2.4	1