

# Alejandro Bruhn

## List of Publications by Year in descending order

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Version: 2024-02-01

67  
papers

2,756  
citations

159585

30  
h-index

182427

51  
g-index

72  
all docs

72  
docs citations

72  
times ranked

2951  
citing authors

#	ARTICLE	IF	CITATIONS
1	Clinical characteristics, systemic complications, and in-hospital outcomes for patients with COVID-19 in Latin America. LIVEN-Covid-19 study: A prospective, multicenter, multinational, cohort study. PLoS ONE, 2022, 17, e0265529.	2.5	16
2	Estimation of changes in cyclic lung strain by electrical impedance tomography: Proof-of-concept study. Acta Anaesthesiologica Scandinavica, 2021, 65, 228-235.	1.6	8
3	Physiological and inflammatory consequences of high and low respiratory rate in acute respiratory distress syndrome. Acta Anaesthesiologica Scandinavica, 2021, 65, 1013-1022.	1.6	4
4	Effect of positive end-expiratory pressure on lung injury and haemodynamics during experimental acute respiratory distress syndrome treated with extracorporeal membrane oxygenation and near-apnoeic ventilation. British Journal of Anaesthesia, 2021, 127, 807-814.	3.4	8
5	Outcome of acute hypoxaemic respiratory failure: insights from the LUNG SAFE Study. European Respiratory Journal, 2021, 57, 2003317.	6.7	39
6	Acute lung injury secondary to hydrochloric acid instillation induces small airway hyperresponsiveness.. American Journal of Translational Research (discontinued), 2021, 13, 12734-12741.	0.0	1
7	Low Spontaneous Breathing Effort during Extracorporeal Membrane Oxygenation in a Porcine Model of Severe Acute Respiratory Distress Syndrome. Anesthesiology, 2020, 133, 1106-1117.	2.5	9
8	Reply to Shekar and Schmidt: Integrating Mechanical Ventilation and Extracorporeal Membrane Oxygenation in Severe Acute Respiratory Distress Syndrome. American Journal of Respiratory and Critical Care Medicine, 2019, 200, 266-266.	5.6	0
9	Outcomes of Patients Presenting with Mild Acute Respiratory Distress Syndrome. Anesthesiology, 2019, 130, 263-283.	2.5	28
10	Early rise in central venous pressure during a spontaneous breathing trial: A promising test to identify patients at high risk of weaning failure?. PLoS ONE, 2019, 14, e0225181.	2.5	6
11	Near-Apneic Ventilation Decreases Lung Injury and Fibroproliferation in an Acute Respiratory Distress Syndrome Model with Extracorporeal Membrane Oxygenation. American Journal of Respiratory and Critical Care Medicine, 2019, 199, 603-612.	5.6	82
12	Reply to Kredel et al.: Mechanical Ventilation during Extracorporeal Support: The Relevance of Vt. American Journal of Respiratory and Critical Care Medicine, 2019, 199, 931-932.	5.6	0
13	Does Regional Lung Strain Correlate With Regional Inflammation in Acute Respiratory Distress Syndrome During Nonprotective Ventilation? An Experimental Porcine Study*. Critical Care Medicine, 2018, 46, e591-e599.	0.9	44
14	Mortality of Adult Patients With Cancer Admitted to an Intensive Care Unit in Chile: A Prospective Cohort Study. Journal of Global Oncology, 2018, 4, 1-9.	0.5	4
15	Electrical impedance tomography in acute respiratory distress syndrome. Critical Care, 2018, 22, 263.	5.8	112
16	Evaluation of Meropenem Pharmacokinetics in an Experimental Acute Respiratory Distress Syndrome (ARDS) Model during Extracorporeal Membrane Oxygenation (ECMO) by Using a PenP Î²-Lactamase Biosensor. Sensors, 2018, 18, 1424.	3.8	17
17	Organizational Issues, Structure, and Processes of Care in 257 ICUs in Latin America. Critical Care Medicine, 2017, 45, 1325-1336.	0.9	36
18	Geo-economic variations in epidemiology, patterns of care, and outcomes in patients with acute respiratory distress syndrome: insights from the LUNG SAFE prospective cohort study. Lancet Respiratory Medicine, 2017, 5, 627-638.	10.7	93

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19	Effects of dobutamine on intestinal microvascular blood flow heterogeneity and $O_2$ extraction during septic shock. <i>Journal of Applied Physiology</i> , 2017, 122, 1406-1417.	2.5	27
20	Spatial patterns and frequency distributions of regional deformation in the healthy human lung. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 1413-1423.	2.8	34
21	Driving pressure: a marker of severity, a safety limit, or a goal for mechanical ventilation?. <i>Critical Care</i> , 2017, 21, 199.	5.8	81
22	Open lung approach ventilation abolishes the negative effects of respiratory rate in experimental lung injury. <i>Acta Anaesthesiologica Scandinavica</i> , 2016, 60, 1131-1141.	1.6	12
23	High respiratory rate is associated with early reduction of lung edema clearance in an experimental model of <i>ARDS</i> . <i>Acta Anaesthesiologica Scandinavica</i> , 2016, 60, 79-92.	1.6	20
24	Effects of dexmedetomidine and esmolol on systemic hemodynamics and exogenous lactate clearance in early experimental septic shock. <i>Critical Care</i> , 2016, 20, 234.	5.8	38
25	Improving the Accuracy of Registration-Based Biomechanical Analysis: A Finite Element Approach to Lung Regional Strain Quantification. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 580-588.	8.9	32
26	Can venous-to-arterial carbon dioxide differences reflect microcirculatory alterations in patients with septic shock?. <i>Intensive Care Medicine</i> , 2016, 42, 211-221.	8.2	140
27	Hantavirus cardiopulmonary syndrome successfully treated with high-volume hemofiltration. <i>Revista Brasileira De Terapia Intensiva</i> , 2016, 28, 190-4.	0.3	6
28	Extracorporeal membrane oxygenation improves survival in a novel 24-hour pig model of severe acute respiratory distress syndrome. <i>American Journal of Translational Research (discontinued)</i> , 2016, 8, 2826-37.	0.0	7
29	High <i>PEEP</i> levels are associated with overdistension and tidal recruitment/derecruitment in <i>ARDS</i> patients. <i>Acta Anaesthesiologica Scandinavica</i> , 2015, 59, 1161-1169.	1.6	22
30	Impairment of exogenous lactate clearance in experimental hyperdynamic septic shock is not related to total liver hypoperfusion. <i>Critical Care</i> , 2015, 19, 188.	5.8	42
31	Combination of arterial lactate levels and venous-arterial $CO_2$ to arterial-venous $O_2$ content difference ratio as markers of resuscitation in patients with septic shock. <i>Intensive Care Medicine</i> , 2015, 41, 796-805.	8.2	109
32	Non-lobar atelectasis generates inflammation and structural alveolar injury in the surrounding healthy tissue during mechanical ventilation. <i>Critical Care</i> , 2014, 18, 505.	5.8	69
33	When to stop septic shock resuscitation: clues from a dynamic perfusion monitoring. <i>Annals of Intensive Care</i> , 2014, 4, 30.	4.6	105
34	Effects of Prone Positioning on Lung Protection in Patients with Acute Respiratory Distress Syndrome. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013, 188, 440-448.	5.6	185
35	Effects of dobutamine on systemic, regional and microcirculatory perfusion parameters in septic shock: a randomized, placebo-controlled, double-blind, crossover study. <i>Intensive Care Medicine</i> , 2013, 39, 1435-1443.	8.2	129
36	Microcirculation in Sepsis: New Perspectives. <i>Current Vascular Pharmacology</i> , 2013, 11, 161-169.	1.7	17

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37	Severe abnormalities in microvascular perfused vessel density are associated to organ dysfunctions and mortality and can be predicted by hyperlactatemia and norepinephrine requirements in septic shock patients. <i>Journal of Critical Care</i> , 2013, 28, 538.e9-538.e14.	2.2	72
38	Preliminary study of ventilation with 4 ml/kg tidal volume in acute respiratory distress syndrome: feasibility and effects on cyclic recruitment - derecruitment and hyperinflation. <i>Critical Care</i> , 2013, 17, R16.	5.8	35
39	Mini-report: Microcirculatory flow abnormalities in a patient with severe hyperviscosity syndrome. <i>Clinical Hemorheology and Microcirculation</i> , 2013, 54, 33-38.	1.7	0
40	Microcirculation in Sepsis: New Perspectives. <i>Current Vascular Pharmacology</i> , 2013, 11, 161-169.	1.7	7
41	The holistic view on perfusion monitoring in septic shock. <i>Current Opinion in Critical Care</i> , 2012, 18, 280-286.	3.2	64
42	Persistent Sepsis-Induced Hypotension without Hyperlactatemia: A Distinct Clinical and Physiological Profile within the Spectrum of Septic Shock. <i>Critical Care Research and Practice</i> , 2012, 2012, 1-7.	1.1	45
43	Relationship of systemic, hepatosplanchnic, and microcirculatory perfusion parameters with 6-hour lactate clearance in hyperdynamic septic shock patients: an acute, clinical-physiological, pilot study. <i>Annals of Intensive Care</i> , 2012, 2, 44.	4.6	33
44	Pressão expiratória final positiva aumenta o estiramento em pacientes com LPA/SDRA. <i>Revista Brasileira De Terapia Intensiva</i> , 2012, 24, 43-51.	0.3	6
45	Evolution of peripheral vs metabolic perfusion parameters during septic shock resuscitation. A clinical-physiologic study. <i>Journal of Critical Care</i> , 2012, 27, 283-288.	2.2	98
46	Positive end-expiratory pressure increases strain in patients with ALI/ARDS. <i>Revista Brasileira De Terapia Intensiva</i> , 2012, 24, 43-51.	0.3	5
47	Persistent sepsis-induced hypotension without hyperlactatemia: Is it really septic shock?. <i>Journal of Critical Care</i> , 2011, 26, 435.e9-435.e14.	2.2	67
48	Sublingual microcirculatory changes during high volume hemofiltration in hyperdynamic septic shock patients. <i>Critical Care</i> , 2010, 14, R170.	5.8	27
49	Gastric tonometry versus cardiac index as resuscitation goals in septic shock: a multicenter, randomized, controlled trial. <i>Critical Care</i> , 2009, 13, R44.	5.8	48
50	Impact of emergency intubation on central venous oxygen saturation in critically ill patients: a multicenter observational study. <i>Critical Care</i> , 2009, 13, R63.	5.8	43
51	Evaluation of sublingual and gut mucosal microcirculation in sepsis: A quantitative analysis*. <i>Critical Care Medicine</i> , 2009, 37, 2875-2881.	0.9	216
52	Intra-abdominal hypertension: Incidence and association with organ dysfunction during early septic shock. <i>Journal of Critical Care</i> , 2008, 23, 461-467.	2.2	66
53	Lipoperoxidation and Protein Oxidative Damage Exhibit Different Kinetics During Septic Shock. <i>Mediators of Inflammation</i> , 2008, 2008, 1-8.	3.0	38
54	Acute Hypercapnia Improves Indices of Tissue Oxygenation More than Dobutamine in Septic Shock. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2008, 177, 178-183.	5.6	59

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55	Splanchnic ischemia and gut permeability after acute brain injury secondary to intracranial hemorrhage. <i>Neurocritical Care</i> , 2007, 7, 40-44.	2.4	13
56	Correspondence Is Maximal Lung Recruitment Worth It?. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2006, 174, 1159-1159.	5.6	2
57	EFFECTS OF DEXAMETHASONE ON MACROPHAGE MIGRATORY INHIBITORY FACTOR PRODUCTION IN SEPSIS. <i>Shock</i> , 2006, 26, 169-173.	2.1	18
58	Beneficial effects of alkaline phosphatase in septic shock. <i>Critical Care Medicine</i> , 2006, 34, 2182-2187.	0.9	62
59	Implementation of a Norepinephrine-based Protocol for Management of Septic Shock: A Pilot Feasibility Study. <i>Journal of Trauma</i> , 2006, 60, 77-81.	2.3	10
60	Euglycemic Hyperinsulinemia in Severe Sepsis and Septic Shock. <i>European Surgical Research</i> , 2006, 38, 495-502.	1.3	4
61	Management of septic shock with a norepinephrine-based haemodynamic algorithm. <i>Resuscitation</i> , 2005, 66, 63-69.	3.0	25
62	SUBLINGUAL MICROCIRCULATION REFLECTS INTESTINAL MUCOSAL MICROCIRCULATION IN SEPSIS: A QUANTITATIVE ANALYSIS.. <i>Critical Care Medicine</i> , 2005, 33, A51.	0.9	4
63	THE BENEFICIAL EFFECTS OF THERAPEUTIC HYPERCAPNIA IN A CLINICALLY RELEVANT MODEL OF SEPTIC SHOCK.. <i>Critical Care Medicine</i> , 2005, 33, A132.	0.9	1
64	PROTEIN C DEFICIENCY IN CRITICALLY ILL PATIENTS.. <i>Critical Care Medicine</i> , 2005, 33, A151.	0.9	0
65	Effects of positive end-expiratory pressure on gastric mucosal perfusion in acute respiratory distress syndrome. <i>Critical Care</i> , 2004, 8, R306.	5.8	12
66	Lung computed tomography during a lung recruitment maneuver in patients with acute lung injury. <i>Intensive Care Medicine</i> , 2003, 29, 218-225.	8.2	45
67	Influence of polymeric enteral nutrition supplemented with different doses of glutamine on gut permeability in critically ill patients. <i>Nutrition</i> , 2001, 17, 907-911.	2.4	25