

Eduardo L V Costa

List of Publications by Year in descending order

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Version: 2024-02-01

93
papers

6,651
citations

172386

29
h-index

64755

79
g-index

96
all docs

96
docs citations

96
times ranked

6642
citing authors

#	ARTICLE	IF	CITATIONS
1	Driving Pressure and Survival in the Acute Respiratory Distress Syndrome. <i>New England Journal of Medicine</i> , 2015, 372, 747-755.	13.9	1,905
2	Effect of Dexamethasone on Days Alive and Ventilator-Free in Patients With Moderate or Severe Acute Respiratory Distress Syndrome and COVID-19. <i>JAMA - Journal of the American Medical Association</i> , 2020, 324, 1307.	3.8	983
3	Association between driving pressure and development of postoperative pulmonary complications in patients undergoing mechanical ventilation for general anaesthesia: a meta-analysis of individual patient data. <i>Lancet Respiratory Medicine</i> , 2016, 4, 272-280.	5.2	404
4	Spontaneous Effort Causes Occult Pendelluft during Mechanical Ventilation. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013, 188, 1420-1427.	2.5	391
5	Bedside estimation of recruitable alveolar collapse and hyperdistension by electrical impedance tomography. <i>Intensive Care Medicine</i> , 2009, 35, 1132-1137.	3.9	341
6	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. <i>Intensive Care Medicine</i> , 2016, 42, 1672-1684.	3.9	176
7	Real-time detection of pneumothorax using electrical impedance tomography*. <i>Critical Care Medicine</i> , 2008, 36, 1230-1238.	0.4	174
8	Esophageal Manometry and Regional Transpulmonary Pressure in Lung Injury. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 197, 1018-1026.	2.5	161
9	High Positive End-Expiratory Pressure Renders Spontaneous Effort Noninjurious. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 197, 1285-1296.	2.5	156
10	Ventilatory Variables and Mechanical Power in Patients with Acute Respiratory Distress Syndrome. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 204, 303-311.	2.5	148
11	Electrical impedance tomography. <i>Current Opinion in Critical Care</i> , 2009, 15, 18-24.	1.6	143
12	Spontaneous Effort During Mechanical Ventilation: Maximal Injury With Less Positive End-Expiratory Pressure*. <i>Critical Care Medicine</i> , 2016, 44, e678-e688.	0.4	142
13	Regional lung perfusion estimated by electrical impedance tomography in a piglet model of lung collapse. <i>Journal of Applied Physiology</i> , 2012, 112, 225-236.	1.2	134
14	Effect of Lowering V_{T} on Mortality in Acute Respiratory Distress Syndrome Varies with Respiratory System Elastance. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 203, 1378-1385.	2.5	118
15	Electrical impedance tomography in acute respiratory distress syndrome. <i>Critical Care</i> , 2018, 22, 263.	2.5	112
16	Effect of Local Tidal Lung Strain on Inflammation in Normal and Lipopolysaccharide-Exposed Sheep*. <i>Critical Care Medicine</i> , 2014, 42, e491-e500.	0.4	90
17	Mild Endotoxemia during Mechanical Ventilation Produces Spatially Heterogeneous Pulmonary Neutrophilic Inflammation in Sheep. <i>Anesthesiology</i> , 2010, 112, 658-669.	1.3	64
18	The new definition for acute lung injury and acute respiratory distress syndrome. <i>Current Opinion in Critical Care</i> , 2013, 19, 16-23.	1.6	56

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19	Early Inflammation Mainly Affects Normally and Poorly Aerated Lung in Experimental Ventilator-Induced Lung Injury*. Critical Care Medicine, 2014, 42, e279-e287.	0.4	56
20	Extracorporeal membrane oxygenation for severe respiratory failure in adult patients: A systematic review and meta-analysis of current evidence. Journal of Critical Care, 2013, 28, 998-1005.	1.0	49
21	Measurement of Regional Specific Lung Volume Change Using Respiratory-Gated PET of Inhaled ¹³ N-Nitrogen. Journal of Nuclear Medicine, 2010, 51, 646-653.	2.8	47
22	Determinants of Oxygen and Carbon Dioxide Transfer during Extracorporeal Membrane Oxygenation in an Experimental Model of Multiple Organ Dysfunction Syndrome. PLoS ONE, 2013, 8, e54954.	1.1	46
23	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.	0.4	44
24	Protective ventilation and outcomes of critically ill patients with COVID-19: a cohort study. Annals of Intensive Care, 2021, 11, 92.	2.2	42
25	Acute vasodilator test in pulmonary arterial hypertension: Evaluation of two response criteria. Vascular Pharmacology, 2005, 43, 143-147.	1.0	40
26	Severe hypoxemia during veno-venous extracorporeal membrane oxygenation: exploring the limits of extracorporeal respiratory support. Clinics, 2014, 69, 173-178.	0.6	38
27	Effect of regional lung inflation on ventilation heterogeneity at different length scales during mechanical ventilation of normal sheep lungs. Journal of Applied Physiology, 2012, 113, 947-957.	1.2	37
28	Bedside Estimation of Non-aerated Lung Tissue Using Blood Gas Analysis*. Critical Care Medicine, 2013, 41, 732-743.	0.4	36
29	Transportation of patients on extracorporeal membrane oxygenation: a tertiary medical center experience and systematic review of the literature. Annals of Intensive Care, 2017, 7, 14.	2.2	35
30	Lung Inflammation Persists After 27 Hours of Protective Acute Respiratory Distress Syndrome Network Strategy and Is Concentrated in the Nondependent Lung. Critical Care Medicine, 2015, 43, e123-e132.	0.4	30
31	First-year experience of a Brazilian tertiary medical center in supporting severely ill patients using extracorporeal membrane oxygenation. Clinics, 2012, 67, 1157-1163.	0.6	26
32	Regional Lung Derecruitment and Inflammation during 16 Hours of Mechanical Ventilation in Supine Healthy Sheep. Anesthesiology, 2013, 119, 156-165.	1.3	19
33	Monitoring of Pneumothorax Appearance with Electrical Impedance Tomography during Recruitment Maneuvers. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 1070-1073.	2.5	19
34	Kinetics of arterial carbon dioxide during veno-venous extracorporeal membrane oxygenation support in an apnoeic porcine model. Intensive Care Medicine Experimental, 2016, 4, 1.	0.9	18
35	The economic effect of extracorporeal membrane oxygenation to support adults with severe respiratory failure in Brazil: a hypothetical analysis. Revista Brasileira De Terapia Intensiva, 2014, 26, 253-62.	0.1	18
36	Oxigenação extracorpórea por membrana na hipoxemia grave: hora de revermos nossos conceitos?. Jornal Brasileiro De Pneumologia, 2012, 38, 7-12.	0.4	17

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37	Estimation of Stroke Volume and Stroke Volume Changes by Electrical Impedance Tomography. <i>Anesthesia and Analgesia</i> , 2018, 126, 102-110.	1.1	16
38	Association between intraoperative tidal volume and postoperative respiratory complications is dependent on respiratory elastance: a retrospective, multicentre cohort study. <i>British Journal of Anaesthesia</i> , 2022, 129, 263-272.	1.5	15
39	Noninvasive ventilation for acute respiratory distress syndrome: the importance of ventilator settings. <i>Journal of Thoracic Disease</i> , 2016, 8, E982-E986.	0.6	14
40	Can heterogeneity in ventilation be good?. <i>Critical Care</i> , 2010, 14, 134.	2.5	13
41	Ultra-protective tidal volume: how low should we go?. <i>Critical Care</i> , 2013, 17, 127.	2.5	13
42	Epidemiology, outcomes, and the use of intensive care unit resources of critically ill patients diagnosed with COVID-19 in Sao Paulo, Brazil: A cohort study. <i>PLoS ONE</i> , 2020, 15, e0243269.	1.1	13
43	Performance of ICU ventilators during noninvasive ventilation with large leaks in a total face mask: a bench study. <i>Jornal Brasileiro De Pneumologia</i> , 2014, 40, 294-303.	0.4	12
44	Correlation of Lung Collapse and Gas Exchange - A Computer Tomographic Study in Sheep and Pigs with Atelectasis in Otherwise Normal Lungs. <i>PLoS ONE</i> , 2015, 10, e0135272.	1.1	12
45	Extracorporeal respiratory support in adult patients. <i>Jornal Brasileiro De Pneumologia</i> , 2017, 43, 60-70.	0.4	11
46	Outcomes and prognostic factors of decompensated pulmonary hypertension in the intensive care unit. <i>Respiratory Medicine</i> , 2021, 190, 106685.	1.3	11
47	Effects of arterial oxygen tension and cardiac output on venous saturation: a mathematical modeling approach. <i>Clinics</i> , 2012, 67, 897-900.	0.6	10
48	High PEEP may have reduced injurious transpulmonary pressure swings in the ROSE trial. <i>Critical Care</i> , 2019, 23, 404.	2.5	10
49	Pendelluft Detection Using Electrical Impedance Tomography in an Infant. Keep Those Images in Mind. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 200, 1427-1429.	2.5	9
50	Prone position ventilation, recruitment maneuver and intravenous zanamivir in severe refractory hypoxemia caused by influenza a (H1N1). <i>Clinics</i> , 2010, 65, 1211-1213.	0.6	9
51	Factors associated with blood oxygen partial pressure and carbon dioxide partial pressure regulation during respiratory extracorporeal membrane oxygenation support: data from a swine model. <i>Revista Brasileira De Terapia Intensiva</i> , 2016, 28, 11-8.	0.1	9
52	Challenges in patients supported with extracorporeal membrane oxygenation in Brazil. <i>Clinics</i> , 2012, 67, 1511-1515.	0.6	9
53	Central Neurogenic Respiratory Failure: A Challenging Diagnosis. <i>Case Reports in Neurology</i> , 2011, 3, 75-81.	0.3	8
54	Burnout syndrome in intensive care physicians in time of the COVID-19: a cross-sectional study. <i>BMJ Open</i> , 2022, 12, e057272.	0.8	8

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55	Humidification During Invasive Mechanical Ventilation: Less Lung Inflammation With Optimal Gas Conditioning. <i>Respiratory Care</i> , 2015, 60, 1854-1855.	0.8	7
56	Intraoperative open lung condition and postoperative pulmonary complications. A secondary analysis of iPROVE and iPROVE+O ₂ trials. <i>Acta Anaesthesiologica Scandinavica</i> , 2022, 66, 30-39.	0.7	7
57	Driving Pressure as a Key Ventilation Variable. <i>New England Journal of Medicine</i> , 2015, 372, 2071-2072.	13.9	6
58	Electrical impedance tomography in pulmonary arterial hypertension. <i>PLoS ONE</i> , 2021, 16, e0248214.	1.1	6
59	Lung Water. <i>Anesthesiology</i> , 2009, 111, 933-935.	1.3	6
60	Extracorporeal membrane oxygenation as a bridge to pulmonary transplantation in Brazil: Are we ready to embark upon this new age?. <i>Clinics</i> , 2011, 66, 1659-1661.	0.6	6
61	A look at the diastolic function in severe sepsis and septic shock. <i>Revista Brasileira De Terapia Intensiva</i> , 2015, 27, 307-8.	0.1	6
62	Hemodynamic and respiratory support using venoarterial extracorporeal membrane oxygenation (ECMO) in a polytrauma patient. <i>Revista Brasileira De Terapia Intensiva</i> , 2011, 23, 374-9.	0.1	6
63	Blood flow/pump rotation ratio as an artificial lung performance monitoring tool during extracorporeal respiratory support using centrifugal pumps. <i>Revista Brasileira De Terapia Intensiva</i> , 2015, 27, 178-84.	0.1	5
64	Acute hemodynamic, respiratory and metabolic alterations after blood contact with a volume priming and extracorporeal life support circuit: an experimental study. <i>Revista Brasileira De Terapia Intensiva</i> , 2012, 24, 137-42.	0.1	5
65	Lung Recruitment and Pendelluft Resolution after Less Invasive Surfactant Administration in a Preterm Infant. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020, 202, 766-769.	2.5	4
66	Reply to Tobin. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 204, 869-870.	2.5	4
67	The importance of ventilator settings and respiratory mechanics in patients resuscitated from cardiac arrest. <i>Intensive Care Medicine</i> , 0, , .	3.9	4
68	Assessment of regional lung ventilation by electrical impedance tomography in a patient with unilateral bronchial stenosis and a history of tuberculosis. <i>Jornal Brasileiro De Pneumologia</i> , 2013, 39, 742-746.	0.4	3
69	Moderately high frequency ventilation with a conventional ventilator allows reduction of tidal volume without increasing mean airway pressure. <i>Intensive Care Medicine Experimental</i> , 2014, 2, 13.	0.9	3
70	Effect of continuous dialysis on blood pH in acidemic hypercapnic animals with severe acute kidney injury: a randomized experimental study comparing high vs. low bicarbonate affluent. <i>Intensive Care Medicine Experimental</i> , 2017, 5, 28.	0.9	3
71	Impact of a respiratory ICU rotation on resident knowledge and confidence in managing mechanical ventilation. <i>Jornal Brasileiro De Pneumologia</i> , 2020, 46, e20190108-e20190108.	0.4	3
72	Lung perfusion during veno-venous extracorporeal membrane oxygenation in a model of hypoxemic respiratory failure. <i>Intensive Care Medicine Experimental</i> , 2022, 10, 15.	0.9	3

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73	Monitoring the electric activity of the diaphragm during noninvasive positive pressure ventilation: a case report. <i>BMC Pulmonary Medicine</i> , 2017, 17, 91.	0.8	2
74	Physiologic effects of alveolar recruitment and inspiratory pauses during moderately-high-frequency ventilation delivered by a conventional ventilator in a severe lung injury model. <i>PLoS ONE</i> , 2017, 12, e0185769.	1.1	2
75	Improving Airways Patency and Ventilation Through Optimal Positive Pressure Identified by Noninvasive Mechanical Ventilation Titration in Mounier-Kuhn Syndrome: Protocol for an Interventional, Open-Label, Single-Arm Clinical Trial. <i>JMIR Research Protocols</i> , 2020, 9, e14786.	0.5	2
76	Cancer-Related Characteristics Associated With Invasive Mechanical Ventilation or In-Hospital Mortality in Patients With COVID-19 Admitted to ICU: A Cohort Multicenter Study. <i>Frontiers in Oncology</i> , 2021, 11, 746431.	1.3	2
77	Reply to Hellige and Hahn and Hellige. <i>Journal of Applied Physiology</i> , 2012, 112, 2128-2128.	1.2	1
78	Adjunctive therapy with inhaled nitric oxide for severe acute chest syndrome in patients with sickle cell disease. <i>Intensive Care Medicine</i> , 2015, 41, 2213-2215.	3.9	1
79	Inflammatory Activity in Atelectatic and Normally Aerated Regions During Early Acute Lung Injury. <i>Academic Radiology</i> , 2020, 27, 1679-1690.	1.3	1
80	Tracheobronchomalacia in a patient on invasive mechanical ventilation: the role of electrical impedance tomography in its detection and positive end-expiratory pressure titration. <i>Jornal Brasileiro De Pneumologia</i> , 2015, 41, 203-205.	0.4	1
81	Controlled Mechanical Ventilation: Modes and Monitoring. , 2022, , 37-48.		1
82	Molecular Imaging In An Animal Model Of ARDS: Rethinking The Lung-Protective Mechanical Ventilation Strategy. , 2012, , .		0
83	Mechanical ventilation during thoracic surgery: towards individualized medicine. <i>Annals of Translational Medicine</i> , 2020, 8, 842-842.	0.7	0
84	Caring for patients at risk of ARDS: the role of driving pressure. <i>Jornal Brasileiro De Pneumologia</i> , 2021, 47, e20210013-e20210013.	0.4	0
85	What is the optimal large airway size reduction value to determine malacia: exploratory bronchoscopic analysis in patients in Mounier-Kuhn syndrome. <i>Journal of Thoracic Disease</i> , 2021, 13, 425-429.	0.6	0
86	Reply to Camporota etÂal.: The 4DPRR Index and Mechanical Power: A Step Ahead or 4 Steps Backward?. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 204, 492-493.	2.5	0
87	Diaphragmatic Electrical Activity. <i>Anesthesiology</i> , 2014, 121, 447-449.	1.3	0
88	Prone Positioning During Venovenous Extracorporeal Membrane Oxygenation*. <i>Critical Care Medicine</i> , 2022, 50, 343-345.	0.4	0
89	Phrenic Nerve Block and Respiratory Effort in Pigs and Critically Ill Patients with Acute Lung Injury. <i>Anesthesiology</i> , 2022, 136, 763-778.	1.3	0
90	Title is missing!. , 2020, 15, e0243269.		0

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91	Title is missing!. , 2020, 15, e0243269.		0
92	Title is missing!. , 2020, 15, e0243269.		0
93	Title is missing!. , 2020, 15, e0243269.		0