Pedro Leme Silva

List of Publications by Citations

117 papers	1,614 citations	24 h-index	33 g-index
128 ext. papers	2,245 ext. citations	4.7 avg, IF	4.82 L-index

#	Paper	IF	Citations
117	Comparative Effects of Volutrauma and Atelectrauma on Lung Inflammation in Experimental Acute Respiratory Distress Syndrome. *Critical Care Medicine*, **2016**, 44, e854-65	1.4	62
116	Albumin versus crystalloid solutions in patients with the acute respiratory distress syndrome: a systematic review and meta-analysis. *Critical Care*, **2014**, 18, R10	10.8	55
115	Early use of nitazoxanide in mild COVID-19 disease: randomised, placebo-controlled trial. *European Respiratory Journal*, **2021**, 58,	13.6	53
114	Immunomodulation after ischemic stroke: potential mechanisms and implications for therapy. *Critical Care*, **2016**, 20, 391	10.8	50
113	Recruitment maneuvers modulate epithelial and endothelial cell response according to acute lung injury etiology. *Critical Care Medicine*, **2013**, 41, e256-65	1.4	45
112	Methylprednisolone improves lung mechanics and reduces the inflammatory response in pulmonary but not in extrapulmonary mild acute lung injury in mice. *Critical Care Medicine*, **2008**, 36, 2621-8	1.4	44
111	Biological Impact of Transpulmonary Driving Pressure in Experimental Acute Respiratory Distress Syndrome. *Anesthesiology*, **2015**, 123, 423-33	4.3	43
110	Pathogenesis of Multiple Organ Injury in COVID-19 and Potential Therapeutic Strategies. *Frontiers in Physiology*, **2021**, 12, 593223	4.6	42
109	Effects of frequency and inspiratory plateau pressure during recruitment manoeuvres on lung and distal organs in acute lung injury. *Intensive Care Medicine*, **2009**, 35, 1120-8	14.5	41
108	Pros and cons of corticosteroid therapy for COVID-19 patients. *Respiratory Physiology and Neurobiology*, **2020**, 280, 103492	2.8	40
107	Mesenchymal stromal cell therapy reduces lung inflammation and vascular remodeling and improves hemodynamics in experimental pulmonary arterial hypertension. *Stem Cell Research and Therapy*, **2017**, 8, 220	8.3	39
106	Hypervolemia induces and potentiates lung damage after recruitment maneuver in a model of sepsis-induced acute lung injury. *Critical Care*, **2010**, 14, R114	10.8	36
105	Mechanisms of ventilator-induced lung injury in healthy lungs. *Baillieres Best Practice and Research in Clinical Anaesthesiology*, **2015**, 29, 301-13	4	35
104	Brain-heart interaction after acute ischemic stroke. *Critical Care*, **2020**, 24, 163	10.8	34
103	Impact of pressure profile and duration of recruitment maneuvers on morphofunctional and biochemical variables in experimental lung injury. *Critical Care Medicine*, **2011**, 39, 1074-81	1.4	33
102	Pulmonary lesion induced by low and high positive end-expiratory pressure levels during protective ventilation in experimental acute lung injury. *Critical Care Medicine*, **2009**, 37, 1011-7	1.4	33
101	Effects of chronic L-NAME treatment lung tissue mechanics, eosinophilic and extracellular matrix responses induced by chronic pulmonary inflammation. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2008**, 294, L1197-205	5.8	32

100	Power to mechanical power to minimize ventilator-induced lung injury?. *Intensive Care Medicine Experimental*, **2019**, 7, 38	3.7	31
99	Focal ischemic stroke leads to lung injury and reduces alveolar macrophage phagocytic capability in rats. *Critical Care*, **2018**, 22, 249	10.8	28
98	Biologic Impact of Mechanical Power at High and Low Tidal Volumes in Experimental Mild Acute Respiratory Distress Syndrome. *Anesthesiology*, **2018**, 128, 1193-1206	4.3	27
97	Recruitment maneuvers in acute respiratory distress syndrome: The safe way is the best way. *World Journal of Critical Care Medicine*, **2015**, 4, 278-86	3	27
96	Characterization of a Mouse Model of Emphysema Induced by Multiple Instillations of Low-Dose Elastase. *Frontiers in Physiology*, **2016**, 7, 457	4.6	25
95	Effects of sigh during pressure control and pressure support ventilation in pulmonary and extrapulmonary mild acute lung injury. *Critical Care*, **2014**, 18, 474	10.8	24
94	The effects of salbutamol on epithelial ion channels depend on the etiology of acute respiratory distress syndrome but not the route of administration. *Respiratory Research*, **2014**, 15, 56	7.3	24
93	Effects of intravascular volume replacement on lung and kidney function and damage in nonseptic experimental lung injury. *Anesthesiology*, **2013**, 118, 395-408	4.3	23
92	Noninvasive respiratory support and patient self-inflicted lung injury in COVID-19: a narrative review. *British Journal of Anaesthesia*, **2021**, 127, 353-364	5.4	23
91	Impact of obesity on airway and lung parenchyma remodeling in experimental chronic allergic asthma. *Respiratory Physiology and Neurobiology*, **2011**, 177, 141-8	2.8	22
90	The Effects of Short-Term Propofol and Dexmedetomidine on Lung Mechanics, Histology, and Biological Markers in Experimental Obesity. *Anesthesia and Analgesia*, **2016**, 122, 1015-23	3.9	21
89	Lung Functional and Biologic Responses to Variable Ventilation in Experimental Pulmonary and Extrapulmonary Acute Respiratory Distress Syndrome. *Critical Care Medicine*, **2016**, 44, e553-62	1.4	21
88	Biological Response to Time-Controlled Adaptive Ventilation Depends on Acute Respiratory Distress Syndrome Etiology. *Critical Care Medicine*, **2018**, 46, e609-e617	1.4	20
87	Impact of Different Tidal Volume Levels at Low Mechanical Power on Ventilator-Induced Lung Injury in Rats. *Frontiers in Physiology*, **2018**, 9, 318	4.6	20
86	Modulation of stress versus time product during mechanical ventilation influences inflammation as well as alveolar epithelial and endothelial response in rats. *Anesthesiology*, **2015**, 122, 106-16	4.3	18
85	Personalized pharmacological therapy for ARDS: a light at the end of the tunnel. *Expert Opinion on Investigational Drugs*, **2020**, 29, 49-61	5.9	18
84	Effects of Obesity on Pulmonary Inflammation and Remodeling in Experimental Moderate Acute Lung Injury. *Frontiers in Immunology*, **2019**, 10, 1215	8.4	17
83	Impact of Different Ventilation Strategies on Driving Pressure, Mechanical Power, and Biological Markers During Open Abdominal Surgery in Rats. *Anesthesia and Analgesia*, **2017**, 125, 1364-1374	3.9	17

82	Effects of oleanolic acid on pulmonary morphofunctional and biochemical variables in experimental acute lung injury. *Respiratory Physiology and Neurobiology*, **2011**, 179, 129-36	2.8	17
81	Effects of short-term propofol and dexmedetomidine on pulmonary morphofunction and biological markers in experimental mild acute lung injury. *Respiratory Physiology and Neurobiology*, **2014**, 203, 45-50	2.8	16
80	Effects of pressure support ventilation on ventilator-induced lung injury in mild acute respiratory distress syndrome depend on level of positive end-expiratory pressure: A randomised animal study. *European Journal of Anaesthesiology*, **2018**, 35, 298-306	2.3	15
79	The biological effects of higher and lower positive end-expiratory pressure in pulmonary and extrapulmonary acute lung injury with intra-abdominal hypertension. *Critical Care*, **2014**, 18, R121	10.8	15
78	Degree of endothelium injury promotes fibroelastogenesis in experimental acute lung injury. *Respiratory Physiology and Neurobiology*, **2010**, 173, 179-88	2.8	15
77	Ventilator-induced Lung Injury: Power to the Mechanical Power. *Anesthesiology*, **2016**, 125, 1070-1071	4.3	15
76	Therapeutic effects of LASSBio-596 in an elastase-induced mouse model of emphysema. *Frontiers in Physiology*, **2015**, 6, 267	4.6	14
75	Impact of lung remodelling on respiratory mechanics in a model of severe allergic inflammation. *Respiratory Physiology and Neurobiology*, **2008**, 160, 239-48	2.8	14
74	Fast Versus Slow Recruitment Maneuver at Different Degrees of Acute Lung Inflammation Induced by Experimental Sepsis. *Anesthesia and Analgesia*, **2016**, 122, 1089-100	3.9	14
73	Gradually Increasing Tidal Volume May Mitigate Experimental Lung Injury in Rats. *Anesthesiology*, **2019**, 130, 767-777	4.3	14
72	The basics of respiratory mechanics: ventilator-derived parameters. *Annals of Translational Medicine* , **2018**, 6, 376	3.2	13
71	Static and Dynamic Transpulmonary Driving Pressures Affect Lung and Diaphragm Injury during Pressure-controlled versus Pressure-support Ventilation in Experimental Mild Lung Injury in Rats. *Anesthesiology*, **2020**, 132, 307-320	4.3	12
70	Impact of Bacillus Calmette-Guﾨin Moreau vaccine on lung remodeling in experimental asthma. *Respiratory Physiology and Neurobiology*, **2013**, 189, 614-23	2.8	11
69	Variability in Tidal Volume Affects Lung and Cardiovascular Function Differentially in a Rat Model of Experimental Emphysema. *Frontiers in Physiology*, **2017**, 8, 1071	4.6	11
68	Regional distribution of transpulmonary pressure. *Annals of Translational Medicine*, **2018**, 6, 385	3.2	10
67	Glutamine Therapy Reduces Inflammation and Extracellular Trap Release in Experimental Acute Respiratory Distress Syndrome of Pulmonary Origin. *Nutrients*, **2019**, 11,	6.7	9
66	Effects of crystalloid, hyper-oncotic albumin, and iso-oncotic albumin on lung and kidney damage in experimental acute lung injury. *Respiratory Research*, **2019**, 20, 155	7.3	9
65	Oleanolic acid improves pulmonary morphofunctional parameters in experimental sepsis by modulating oxidative and apoptotic processes. *Respiratory Physiology and Neurobiology*, **2013**, 189, 484-90	2.8	9

64	How to minimise ventilator-induced lung injury in transplanted lungs: The role of protective ventilation and other strategies. *European Journal of Anaesthesiology*, **2015**, 32, 828-36	2.3	9
63	Sevoflurane, Compared With Isoflurane, Minimizes Lung Damage in Pulmonary but Not in Extrapulmonary Acute Respiratory Distress Syndrome in Rats. *Anesthesia and Analgesia*, **2017**, 125, 491-498	3.9	8
62	Endotoxin-Induced Emphysema Exacerbation: A Novel Model of Chronic Obstructive Pulmonary Disease Exacerbations Causing Cardiopulmonary Impairment and Diaphragm Dysfunction. *Frontiers in Physiology*, **2019**, 10, 664	4.6	8
61	Comparison between effects of pressure support and pressure-controlled ventilation on lung and diaphragmatic damage in experimental emphysema. *Intensive Care Medicine Experimental*, **2016**, 4, 35	3.7	8
60	Respiratory and Systemic Effects of LASSBio596 Plus Surfactant in Experimental Acute Respiratory Distress Syndrome. *Cellular Physiology and Biochemistry*, **2016**, 38, 821-35	3.9	8
59	Differential Regulation of Thyroid Hormone Metabolism Target Genes during Non-thyroidal [corrected] Illness Syndrome Triggered by Fasting or Sepsis in Adult Mice. *Frontiers in Physiology*, **2017**, 8, 828	4.6	8
58	Mitochondria-Rich Fraction Isolated From Mesenchymal Stromal Cells Reduces Lung and Distal Organ Injury in Experimental Sepsis. *Critical Care Medicine*, **2021**, 49, e880-e890	1.4	8
57	A mortality score for acute respiratory distress syndrome: predicting the future without a crystal ball. *Journal of Thoracic Disease*, **2016**, 8, 1872-6	2.6	8
56	Comparison between Variable and Conventional Volume-Controlled Ventilation on Cardiorespiratory Parameters in Experimental Emphysema. *Frontiers in Physiology*, **2016**, 7, 277	4.6	8
55	Moderate Aerobic Training Improves Cardiorespiratory Parameters in Elastase-Induced Emphysema. *Frontiers in Physiology*, **2016**, 7, 329	4.6	8
54	Variable ventilation improves pulmonary function and reduces lung damage without increasing bacterial translocation in a rat model of experimental pneumonia. *Respiratory Research*, **2016**, 17, 158	7.3	8
53	Controlled invasive mechanical ventilation strategies in obese patients undergoing surgery. *Expert Review of Respiratory Medicine*, **2017**, 11, 443-452	3.8	7
52	Ghrelin therapy improves lung and cardiovascular function in experimental emphysema. *Respiratory Research*, **2017**, 18, 185	7.3	7
51	Early impact of abdominal compartment syndrome on liver, kidney and lung damage in a rodent model. *Anaesthesiology Intensive Therapy*, **2017**, 49, 130-138	1.7	7
50	The renin-angiotensin-aldosterone system: Role in pathogenesis and potential therapeutic target in COVID-19. *Pharmacology Research and Perspectives*, **2020**, 8, e00623	3.1	7
49	Elastic power but not driving power is the key promoter of ventilator-induced lung injury in experimental acute respiratory distress syndrome. *Critical Care*, **2020**, 24, 284	10.8	6
48	Sepsis Impairs Thyroid Hormone Signaling and Mitochondrial Function in the Mouse Diaphragm. *Thyroid*, **2020**, 30, 1079-1090	6.2	6
47	Effects of pressure support and pressure-controlled ventilation on lung damage in a model of mild extrapulmonary acute lung injury with intra-abdominal hypertension. *PLoS ONE*, **2017**, 12, e0178207	3.7	6

46	Effects of the FGF receptor-1 inhibitor, infigratinib, with or without sildenafil, in experimental pulmonary arterial hypertension. *British Journal of Pharmacology*, **2019**, 176, 4462-4473	8.6	6
45	Impact of different intratracheal flows during lung decellularization on extracellular matrix composition and mechanics. *Regenerative Medicine*, **2018**, 13, 519-530	2.5	5
44	Variable Ventilation Improved Respiratory System Mechanics and Ameliorated Pulmonary Damage in a Rat Model of Lung Ischemia-Reperfusion. *Frontiers in Physiology*, **2017**, 8, 257	4.6	5
43	Mitochondria in Focus: From Function to Therapeutic Strategies in Chronic Lung Diseases. *Frontiers in Immunology*, **2021**, 12, 782074	8.4	5
42	Immunomodulatory effects of anesthetics in obese patients. *World Journal of Critical Care Medicine*, **2017**, 6, 140-152	3	5
41	Impact of positive biphasic pressure during low and high inspiratory efforts in Pseudomonas aeruginosa-induced pneumonia. *PLoS ONE*, **2021**, 16, e0246891	3.7	5
40	Ischaemic stroke-induced distal organ damage: pathophysiology and new therapeutic strategies. *Intensive Care Medicine Experimental*, **2020**, 8, 23	3.7	4
39	Niclosamide attenuates lung vascular remodeling in experimental pulmonary arterial hypertension. *European Journal of Pharmacology*, **2020**, 887, 173438	5.3	4
38	Post-Adipose-Derived Stem Cells (ADSC) Stimulated by Collagen Type V (Col V) Mitigate the Progression of Osteoarthritic Rabbit Articular Cartilage. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 606890	5.7	4
37	Effects of Protective Mechanical Ventilation With Different PEEP Levels on Alveolar Damage and Inflammation in a Model of Open Abdominal Surgery: A Randomized Study in Obese Versus Non-obese Rats. *Frontiers in Physiology*, **2019**, 10, 1513	4.6	4
36	Novel Synthetic and Natural Therapies for Traumatic Brain Injury. *Current Neuropharmacology*, **2021** , 19, 1661-1687	7.6	4
35	The authors reply. *Critical Care Medicine*, **2017**, 45, e328-e329	1.4	3
34	Controversies when using mechanical ventilation in obese patients with and without acute distress respiratory syndrome. *Expert Review of Respiratory Medicine*, **2019**, 13, 471-479	3.8	3
33	Fluids in acute respiratory distress syndrome: pros and cons. *Current Opinion in Critical Care*, **2014**, 20, 104-12	3.5	3
32	Immunomodulatory effects of anesthetic agents in perioperative medicine. *Minerva Anestesiologica* , **2020**, 86, 181-195	1.9	3
31	Recruitment maneuvers for acute respiratory distress syndrome: the panorama in 2016. *Revista Brasileira De Terapia Intensiva*, **2016**, 28, 104-6	1.2	3
30	Impact of experimental obesity on diaphragm structure, function, and bioenergetics. *Journal of Applied Physiology*, **2020**, 129, 1062-1074	3.7	3
29	The impact of fluid status and decremental PEEP strategy on cardiac function and lung and kidney damage in mild-moderate experimental acute respiratory distress syndrome. *Respiratory Research*, **2021**, 22, 214	7.3	3

28	Identification of Autoimmunity to Peptides of Collagen V α1 Chain as Newly Biomarkers of Early Stage of Systemic Sclerosis. *Frontiers in Immunology*, **2020**, 11, 604602	8.4	3
27	Nitazoxanide in Patients Hospitalized With COVID-19 Pneumonia: A Multicentre, Randomized, Double-Blind, Placebo-Controlled Trial.. *Frontiers in Medicine*, **2022**, 9, 844728	4.9	3
26	Intraoperative immunomodulatory effects of sevoflurane versus total intravenous anesthesia with propofol in bariatric surgery (the OBESITA trial): study protocol for a randomized controlled pilot trial. *Trials*, **2019**, 20, 300	2.8	2
25	FG-4497: a new target for acute respiratory distress syndrome?. *Expert Review of Respiratory Medicine*, **2015**, 9, 405-9	3.8	2
24	Fluids in ARDS: more pros than cons. *Intensive Care Medicine Experimental*, **2020**, 8, 32	3.7	2
23	Understanding the Mysteries of Mechanical Power. *Anesthesiology*, **2020**, 132, 949-950	4.3	2
22	In situ Evidence of Collagen V and Interleukin-6/Interleukin-17 Activation in Vascular Remodeling of Experimental Pulmonary Hypertension. *Pathobiology*, **2020**, 87, 356-366	3.6	2
21	Pathological pulmonary vascular remodeling is induced by type V collagen in a model of scleroderma. *Pathology Research and Practice*, **2021**, 220, 153382	3.4	2
20	Circulating Plasma miRNA and Clinical/Hemodynamic Characteristics Provide Additional Predictive Information About Acute Pulmonary Thromboembolism, Chronic Thromboembolic Pulmonary Hypertension and Idiopathic Pulmonary Hypertension. *Frontiers in Pharmacology*, **2021**, 12, 648769	5.6	2
19	Physiological and Pathophysiological Consequences of Mechanical Ventilation.. *Seminars in Respiratory and Critical Care Medicine*, **2022**,	3.9	2
18	Outcomes of patients with confirmed SARS-CoV-2 infection undergoing anesthesia: A pilot study. *Journal of Clinical Anesthesia*, **2020**, 67, 110041	1.9	1
17	Iso-Oncotic Albumin Mitigates Brain and Kidney Injury in Experimental Focal Ischemic Stroke. *Frontiers in Neurology*, **2020**, 11, 1001	4.1	1
16	In Response. *Anesthesia and Analgesia*, **2016**, 123, 790-1	3.9	1
15	Overexpression of Matricellular Mechanical Proteins Demands Functional Immune Signature and Mitigates Non-Small Cell Lung Cancer Progression. *Frontiers in Immunology*, **2021**, 12, 714230	8.4	1
14	Impact of different frequencies of controlled breath and pressure-support levels during biphasic positive airway pressure ventilation on the lung and diaphragm in experimental mild acute respiratory distress syndrome. *PLoS ONE*, **2021**, 16, e0256021	3.7	1
13	Time-Controlled Adaptive Ventilation Versus Volume-Controlled Ventilation in Experimental Pneumonia. *Critical Care Medicine*, **2021**, 49, 140-150	1.4	0
12	Sepsis Disrupts Mitochondrial Function and Diaphragm Morphology. *Frontiers in Physiology*, **2021**, 12, 704044	4.6	0
11	Comparative effects of dexmedetomidine and propofol on brain and lung damage in experimental acute ischemic stroke. *Scientific Reports*, **2021**, 11, 23133	4.9	0

10	Effects of propofol and its formulation components on macrophages and neutrophils in obese and lean animals. *Pharmacology Research and Perspectives*, **2021**, 9, e00873	3.1	0
9	A critical approach to personalised medicine in ARDS. *Lancet Respiratory Medicine,the*, **2020**, 8, 218-219	35.1	0
8	In situ evidence of collagen V and signaling pathway of found inflammatory zone 1 (FIZZ1) is associated with silicotic granuloma in lung mice. *Pathology Research and Practice*, **2020**, 216, 153094	3.4	0
7	Understanding the pathophysiology of typical acute respiratory distress syndrome and severe COVID-19.. *Expert Review of Respiratory Medicine*, **2022**, 1-10	3.8	0
6	Extracellular matrix components remodeling and lung function parameters in experimental emphysema and allergic asthma: Differences among the mouse strains. *Drug Discovery Today: Disease Models*, **2019**, 29-30, 27-34	1.3	
5	Impact of intravascular volume replacement and transfusion on outcome: where are we now?. *Baillieres Best Practice and Research in Clinical Anaesthesiology*, **2012**, 26, 485-97	4	
4	Sterilized human skin graft with a dose of 25 kGy provides a privileged immune and collagen microenvironment in the adhesion of Nude mice wounds.. *PLoS ONE*, **2022**, 17, e0262532	3.7	
3	Reply to: how to minimise ventilator-induced lung injury in transplanted lungs. *European Journal of Anaesthesiology*, **2016**, 33, 300-1	2.3	
2	Ventilation in the Obese Patient **2022**, 223-229		
1	Testosterone Therapy and Diaphragm Performance in a Male Patient with COVID-19: A Case Report.. *Diagnostics*, **2022**, 12,	3.8	