

Salvatore Grasso

List of Publications by Year in descending order

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Version: 2024-02-01

111
papers

7,552
citations

94269

37
h-index

53109

85
g-index

115
all docs

115
docs citations

115
times ranked

5555
citing authors

#	ARTICLE	IF	CITATIONS
1	Mortality after surgery in Europe: a 7 day cohort study. <i>Lancet, The</i> , 2012, 380, 1059-1065.	6.3	1,614
2	Effects of Recruiting Maneuvers in Patients with Acute Respiratory Distress Syndrome Ventilated with Protective Ventilatory Strategy. <i>Anesthesiology</i> , 2002, 96, 795-802.	1.3	462
3	The Application of Esophageal Pressure Measurement in Patients with Respiratory Failure. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014, 189, 520-531.	2.5	443
4	Esophageal and transpulmonary pressure in the clinical setting: meaning, usefulness and perspectives. <i>Intensive Care Medicine</i> , 2016, 42, 1360-1373.	3.9	352
5	Effect of a Lung Protective Strategy for Organ Donors on Eligibility and Availability of Lungs for Transplantation. <i>JAMA - Journal of the American Medical Association</i> , 2010, 304, 2620.	3.8	307
6	Airway pressure-time curve profile (stress index) detects tidal recruitment/hyperinflation in experimental acute lung injury. <i>Critical Care Medicine</i> , 2004, 32, 1018-1027.	0.4	261
7	ARDSnet Ventilatory Protocol and Alveolar Hyperinflation. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2007, 176, 761-767.	2.5	249
8	Impact of prolonged assisted ventilation on diaphragmatic efficiency: NAVA versus PSV. <i>Critical Care</i> , 2015, 20, 1.	2.5	208
9	Pressure-Time Curve Predicts Minimally Injurious Ventilatory Strategy in an Isolated Rat Lung Model. <i>Anesthesiology</i> , 2000, 93, 1320-1328.	1.3	197
10	ECMO criteria for influenza A (H1N1)-associated ARDS: role of transpulmonary pressure. <i>Intensive Care Medicine</i> , 2012, 38, 395-403.	3.9	191
11	Epidemiology, practice of ventilation and outcome for patients at increased risk of postoperative pulmonary complications. <i>European Journal of Anaesthesiology</i> , 2017, 34, 492-507.	0.7	189
12	The standard of care of patients with ARDS: ventilatory settings and rescue therapies for refractory hypoxemia. <i>Intensive Care Medicine</i> , 2016, 42, 699-711.	3.9	176
13	Effects of High versus Low Positive End-Expiratory Pressures in Acute Respiratory Distress Syndrome. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2005, 171, 1002-1008.	2.5	173
14	Lung morphology predicts response to recruitment maneuver in patients with acute respiratory distress syndrome. <i>Critical Care Medicine</i> , 2010, 38, 1108-1117.	0.4	125
15	Cerebro-pulmonary interactions during the application of low levels of positive end-expiratory pressure. <i>Intensive Care Medicine</i> , 2005, 31, 373-379.	3.9	123
16	Use of N-terminal pro-brain natriuretic peptide to detect acute cardiac dysfunction during weaning failure in difficult-to-wean patients with chronic obstructive pulmonary disease*. <i>Critical Care Medicine</i> , 2007, 35, 96-105.	0.4	111
17	Compensation for Increase in Respiratory Workload during Mechanical Ventilation. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2000, 161, 819-826.	2.5	108
18	Inhomogeneity of Lung Parenchyma during the Open Lung Strategy. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2009, 180, 415-423.	2.5	108

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19	Effects of Proportional Assist Ventilation on Inspiratory Muscle Effort in Patients with Chronic Obstructive Pulmonary Disease and Acute Respiratory Failure. <i>Anesthesiology</i> , 1997, 86, 79-91.	1.3	102
20	Effects of Recruitment Maneuver and Positive End-expiratory Pressure on Respiratory Mechanics and Transpulmonary Pressure during Laparoscopic Surgery. <i>Anesthesiology</i> , 2013, 118, 114-122.	1.3	102
21	Acute lung injury and acute respiratory distress syndromes in veterinary medicine: consensus definitions: The Dorothy Russell Havemeyer Working Group on ALI and ARDS in Veterinary Medicine. <i>Journal of Veterinary Emergency and Critical Care</i> , 2007, 17, 333-339.	0.4	100
22	Computed tomographic analysis of the effects of two inspired oxygen concentrations on pulmonary aeration in anesthetized and mechanically ventilated dogs. <i>American Journal of Veterinary Research</i> , 2007, 68, 925-931.	0.3	91
23	Pulmonary atelectasis during low stretch ventilation: "Open lung" versus "lung rest" strategy*. <i>Critical Care Medicine</i> , 2009, 37, 1046-1053.	0.4	91
24	Can diaphragmatic ultrasonography performed during the T-tube trial predict weaning failure? The role of diaphragmatic rapid shallow breathing index. <i>Critical Care</i> , 2016, 20, 305.	2.5	82
25	A method for monitoring and improving patient: ventilator interaction. <i>Intensive Care Medicine</i> , 2007, 33, 1337-1346.	3.9	78
26	Neurally Adjusted Ventilatory Assist in Critically Ill Postoperative Patients: A Crossover Randomized Study. <i>Anesthesiology</i> , 2010, 113, 925-935.	1.3	76
27	High-flow nasal cannula oxygen therapy decreases postextubation neuroventilatory drive and work of breathing in patients with chronic obstructive pulmonary disease. <i>Critical Care</i> , 2018, 22, 180.	2.5	72
28	Physiological effects of a lung-recruiting strategy applied during one-lung ventilation. <i>Acta Anaesthesiologica Scandinavica</i> , 2008, 52, 766-775.	0.7	67
29	Physiological Effects of the Open Lung Approach in Patients with Early, Mild, Diffuse Acute Respiratory Distress Syndrome. <i>Anesthesiology</i> , 2015, 123, 1113-1121.	1.3	67
30	Accuracy of Plateau Pressure and Stress Index to Identify Injurious Ventilation in Patients with Acute Respiratory Distress Syndrome. <i>Anesthesiology</i> , 2013, 119, 880-889.	1.3	65
31	Physiological effects of an open lung ventilatory strategy titrated on elastance-derived end-inspiratory transpulmonary pressure. <i>Critical Care Medicine</i> , 2012, 40, 2124-2131.	0.4	55
32	Low Respiratory Rate Plus Minimally Invasive Extracorporeal Co2 Removal Decreases Systemic and Pulmonary Inflammatory Mediators in Experimental Acute Respiratory Distress Syndrome*. <i>Critical Care Medicine</i> , 2014, 42, e451-e460.	0.4	55
33	Physiologic Evaluation of Ventilation Perfusion Mismatch and Respiratory Mechanics at Different Positive End-expiratory Pressure in Patients Undergoing Protective One-lung Ventilation. <i>Anesthesiology</i> , 2018, 128, 531-538.	1.3	55
34	Cefiderocol-Based Combination Therapy for "Difficult-to-Treat" Gram-Negative Severe Infections: Real-Life Case Series and Future Perspectives. <i>Antibiotics</i> , 2021, 10, 652.	1.5	54
35	AUTO-POSITIVE END-EXPIRATORY PRESSURE AND DYNAMIC HYPERINFLATION. <i>Clinics in Chest Medicine</i> , 1996, 17, 379-394.	0.8	50
36	Use of the oxygen content-based index, Fshunt, as an indicator of pulmonary venous admixture at various inspired oxygen fractions in anesthetized sheep. <i>American Journal of Veterinary Research</i> , 2012, 73, 2013-2020.	0.3	41

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37	Time-course of impairment of respiratory mechanics after cardiac surgery and cardiopulmonary bypass. <i>Critical Care Medicine</i> , 1999, 27, 1454-1460.	0.4	41
38	Effects of reduction of inspired oxygen fraction or application of positive end-expiratory pressure after an alveolar recruitment maneuver on respiratory mechanics, gas exchange, and lung aeration in dogs during anesthesia and neuromuscular blockade. <i>American Journal of Veterinary Research</i> , 2013, 74, 25-33.	0.3	39
39	Association between night-time surgery and occurrence of intraoperative adverse events and postoperative pulmonary complications. <i>British Journal of Anaesthesia</i> , 2019, 122, 361-369.	1.5	39
40	Point of Care Ultrasound to Identify Diaphragmatic Dysfunction after Thoracic Surgery. <i>Anesthesiology</i> , 2019, 131, 266-278.	1.3	38
41	Effects of two fractions of inspired oxygen on lung aeration and gas exchange in cats under inhalant anaesthesia. <i>Veterinary Anaesthesia and Analgesia</i> , 2010, 37, 483-490.	0.3	37
42	Effects of positive end-expiratory pressure on anesthesia-induced atelectasis and gas exchange in anesthetized and mechanically ventilated sheep. <i>American Journal of Veterinary Research</i> , 2010, 71, 867-874.	0.3	34
43	High-flow oxygen therapy in tracheostomized patients at high risk of weaning failure. <i>Annals of Intensive Care</i> , 2019, 9, 4.	2.2	31
44	Lung Recruitability in Severe Acute Respiratory Distress Syndrome Requiring Extracorporeal Membrane Oxygenation. <i>Critical Care Medicine</i> , 2019, 47, 1177-1183.	0.4	29
45	Risk stratification using SpO ₂ /FIO ₂ and PEEP at initial ARDS diagnosis and after 24h in patients with moderate or severe ARDS. <i>Annals of Intensive Care</i> , 2017, 7, 108.	2.2	28
46	Effects of Positive End-Expiratory Pressure in "High Compliance" Severe Acute Respiratory Syndrome Coronavirus 2 Acute Respiratory Distress Syndrome*. <i>Critical Care Medicine</i> , 2020, 48, e1332-e1336.	0.4	27
47	Nonelective surgery at night and in-hospital mortality. <i>European Journal of Anaesthesiology</i> , 2015, 32, 477-485.	0.7	25
48	Chest wall and lung contribution to the elastic properties of the respiratory system in patients with chronic obstructive pulmonary disease. <i>European Respiratory Journal</i> , 1996, 9, 1232-1239.	3.1	24
49	Respiratory effects of low versus high tidal volume with or without positive end-expiratory pressure in anesthetized dogs with healthy lungs. <i>American Journal of Veterinary Research</i> , 2018, 79, 496-504.	0.3	24
50	Noninvasive continuous positive airway pressure delivered using a pediatric helmet in dogs recovering from general anesthesia. <i>Journal of Veterinary Emergency and Critical Care</i> , 2014, 24, 578-585.	0.4	23
51	Accuracy of different oxygenation indices in estimating intrapulmonary shunting at increasing infusion rates of dobutamine in horses under general anaesthesia. <i>Veterinary Journal</i> , 2015, 204, 351-356.	0.6	22
52	Peep titration based on the open lung approach during one lung ventilation in thoracic surgery: a physiological study. <i>BMC Anesthesiology</i> , 2018, 18, 156.	0.7	22
53	QTc Interval Prolongation and Life-Threatening Arrhythmias During Hospitalization in Patients With Coronavirus Disease 2019 (COVID-19): Results From a Multicenter Prospective Registry. <i>Clinical Infectious Diseases</i> , 2021, 73, e4031-e4038.	2.9	22
54	WHICH AIRWAY PRESSURE SHOULD BE APPLIED DURING BREATH-HOLD IN DOGS UNDERGOING THORACIC COMPUTED TOMOGRAPHY?. <i>Veterinary Radiology and Ultrasound</i> , 2016, 57, 475-481.	0.4	18

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55	Physiological effects of the open lung approach during laparoscopic cholecystectomy: focus on driving pressure. <i>Minerva Anestesiologica</i> , 2018, 84, 159-167.	0.6	18
56	Epidemiological Characteristics, Ventilator Management, and Clinical Outcome in Patients Receiving Invasive Ventilation in Intensive Care Units from 10 Asian Middle-Income Countries (PRoVENT-iMiC): An International, Multicenter, Prospective Study. <i>American Journal of Tropical Medicine and Hygiene</i> , 2021, , .	0.6	18
57	An alveolar recruitment maneuver followed by positive end-expiratory pressure improves lung function in healthy dogs undergoing laparoscopy. <i>Veterinary Anaesthesia and Analgesia</i> , 2018, 45, 618-629.	0.3	17
58	Accuracy of the Radiographic Assessment of Lung Edema Score for the Diagnosis of ARDS. <i>Frontiers in Physiology</i> , 2021, 12, 672823.	1.3	17
59	Continuous assessment of neuro-ventilatory drive during 12Âh of pressure support ventilation in critically ill patients. <i>Critical Care</i> , 2020, 24, 652.	2.5	16
60	Physiological effects of two driving pressure-based methods to set positive end-expiratory pressure during one lung ventilation. <i>Journal of Clinical Monitoring and Computing</i> , 2021, 35, 1149-1157.	0.7	16
61	Proportional assist ventilation. <i>Respiratory Care Clinics of North America</i> , 2001, 7, 465-473.	0.5	15
62	Focus on renal blood flow in mechanically ventilated patients with SARS-CoV-2: a prospective pilot study. <i>Journal of Clinical Monitoring and Computing</i> , 2022, 36, 161-167.	0.7	15
63	Recruitment maneuvers in acute respiratory distress syndrome and during general anesthesia. <i>Minerva Anestesiologica</i> , 2016, 82, 210-20.	0.6	15
64	PRactice of VENTilation in Middle-Income Countries (PRoVENT-iMiC): rationale and protocol for a prospective international multicentre observational study in intensive care units in Asia. <i>BMJ Open</i> , 2018, 8, e020841.	0.8	14
65	Integrated lung ultrasound score for early clinical decision-making in patients with COVID-19: results and implications. <i>Ultrasound Journal</i> , 2022, 14, .	1.3	13
66	Lung Ultrasound for Detection of Pulmonary Complications in Critically Ill Obstetric Patients in a Resource-Limited Setting. <i>American Journal of Tropical Medicine and Hygiene</i> , 2021, 104, 478-486.	0.6	12
67	More skilled clinical management of COVID-19 patients modified mortality in an intermediate respiratory intensive care unit in Italy. <i>Respiratory Research</i> , 2021, 22, 16.	1.4	11
68	Extracorporeal Oxygenation and Coronavirus Disease 2019 Epidemic: Is the Membrane Fail-Safe to Cross Contamination?. <i>ASAIO Journal</i> , 2020, 66, 841-843.	0.9	10
69	Flow Index: a novel, non-invasive, continuous, quantitative method to evaluate patient inspiratory effort during pressure support ventilation. <i>Critical Care</i> , 2021, 25, 196.	2.5	9
70	The Prognostic Capacity of the Radiographic Assessment for Lung Edema Score in Patients With COVID-19 Acute Respiratory Distress Syndromeâ€”An International Multicenter Observational Study. <i>Frontiers in Medicine</i> , 2021, 8, 772056.	1.2	9
71	Imaging Evaluation of Pulmonary and Non-Ischaemic Cardiovascular Manifestations of COVID-19. <i>Diagnostics</i> , 2021, 11, 1271.	1.3	8
72	Flow Index accurately identifies breaths with low or high inspiratory effort during pressure support ventilation. <i>Critical Care</i> , 2021, 25, 427.	2.5	8

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73	Non-invasive assessment of respiratory muscle activity during pressure support ventilation: accuracy of end-inspiration occlusion and least square fitting methods. <i>Journal of Clinical Monitoring and Computing</i> , 2021, 35, 913-921.	0.7	7
74	Effects of positive end-expiratory pressure alone or an open-lung approach on recruited lung volumes and respiratory mechanics of mechanically ventilated horses. <i>Veterinary Anaesthesia and Analgesia</i> , 2019, 46, 780-788.	0.3	6
75	Definition and clinical evaluation of a recruiting airway pressure based on the specific lung elastance in anesthetized dogs. <i>Veterinary Anaesthesia and Analgesia</i> , 2021, 48, 484-492.	0.3	6
76	Evaluation of Lung Aeration and Respiratory System Mechanics in Obese Dogs Ventilated With Tidal Volumes Based on Ideal vs. Current Body Weight. <i>Frontiers in Veterinary Science</i> , 2021, 8, 704863.	0.9	6
77	A Lower Global Lung Ultrasound Score Is Associated with Higher Likelihood of Successful Extubation in Invasively Ventilated COVID-19 Patients. <i>American Journal of Tropical Medicine and Hygiene</i> , 2021, 105, 1490-1497.	0.6	6
78	Evaluation of the effects of helmet continuous positive airway pressure on laryngeal size in dogs anesthetized with propofol and fentanyl using computed tomography. <i>Journal of Veterinary Emergency and Critical Care</i> , 2020, 30, 543-549.	0.4	5
79	Effects of continuous positive airway pressure administered by a helmet in cats under general anaesthesia. <i>Journal of Feline Medicine and Surgery</i> , 2021, 23, 337-343.	0.6	5
80	Intraoperative Assessment of Fluid Responsiveness in Normotensive Dogs under Isoflurane Anaesthesia. <i>Veterinary Sciences</i> , 2021, 8, 26.	0.6	5
81	Thermo-optic design for microwave and millimeter-wave electromagnetic power microsensors. <i>Applied Optics</i> , 2002, 41, 3601.	2.1	4
82	Transpulmonary Pressure-based Mechanical Ventilation in Acute Respiratory Distress Syndrome. From Theory to Practice?. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 197, 977-978.	2.5	4
83	Initial setting of high-flow nasal oxygen post extubation based on mean inspiratory flow during a spontaneous breathing trial. <i>Journal of Critical Care</i> , 2021, 63, 40-44.	1.0	4
84	A simple prognostic score based on troponin and presepsin for COVID-19 patients admitted to the emergency department: a single-center pilot study. <i>Acta Biomedica</i> , 2021, 92, e2021233.	0.2	4
85	Proportional Assist Ventilation. <i>Seminars in Respiratory and Critical Care Medicine</i> , 2000, 21, 161-166.	0.8	3
86	Can visual inspection of the electrical activity of the diaphragm improve the detection of patient-ventilator asynchronies by pediatric critical care physicians?. <i>Minerva Anestesiologica</i> , 2021, 87, 319-324.	0.6	3
87	Transpulmonary pressure targets for open lung and protective ventilation: response to Dr. Graf's comment. <i>Intensive Care Medicine</i> , 2012, 38, 1567-1568.	3.9	2
88	Weaning and the Heart. <i>Critical Care Medicine</i> , 2014, 42, 1954-1955.	0.4	2
89	â€œHemolysis, or not Hemolysis, that is the questionâ€: Use of hydroxychloroquine in a patient with COVID-19 infection and G6PD deficiency.. <i>Mediterranean Journal of Hematology and Infectious Diseases</i> , 2020, 12, e2020076.	0.5	2
90	Effects of liver ischemia-reperfusion injury on respiratory mechanics and driving pressure during orthotopic liver transplantation. <i>Minerva Anestesiologica</i> , 2019, 85, 494-504.	0.6	2

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91	Respiratory and hemodynamic effects of 2 protocols of low-dose infusion of dexmedetomidine in dogs under isoflurane anesthesia. <i>Canadian Journal of Veterinary Research</i> , 2020, 84, 96-107.	0.2	2
92	Circulating Skeletal Troponin During Weaning From Mechanical Ventilation and Their Association to Diaphragmatic Function: A Pilot Study. <i>Frontiers in Medicine</i> , 2021, 8, 770408.	1.2	2
93	Measurement of PEEP-induced alveolar recruitment: just a research tool?. <i>Critical Care</i> , 2006, 10, 148.	2.5	1
94	Automatic control of laser beams aberrations in air using an adaptive optics system prototype based on interferometric techniques. , 2008, , .		1
95	Partially Assisted Ventilationâ€“induced Lung Injury in Early Acute Respiratory Distress Syndrome. When Real Life Is Different from Classical Physiology. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2017, 196, 538-539.	2.5	1
96	Assisted Ventilation in the ICU: When and to Whom?. , 2018, , 103-120.		1
97	Single lung ventilation associated to ECMO: an alternative approach to manage ventilator-induced lung injuries in infants. <i>Minerva Anestesiologica</i> , 2019, 85, 90-91.	0.6	1
98	Electrical impedance tomography: just another tool or a real advance towards precision-medicine in mechanical ventilation?. <i>Minerva Anestesiologica</i> , 2019, 85, 1157-1158.	0.6	1
99	Individualized positive end-expiratory pressure guided by end-expiratory lung volume in early acute respiratory distress syndrome: study protocol for the multicenter, randomized IPERPEEP trial. <i>Trials</i> , 2022, 23, 63.	0.7	1
100	Personalized antimicrobial policies in severe peritonitis: opportunities not to be missed!. <i>Minerva Anestesiologica</i> , 2022, , .	0.6	1
101	The Quest for the Holy Grail: A Dead Lock. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2010, 182, 580-581.	2.5	0
102	Adaptive optics system for fast automatic control of laser beam jitters in air. , 2010, , .		0
103	The authors reply. <i>Critical Care Medicine</i> , 2013, 41, e10-e11.	0.4	0
104	The authors reply. <i>Critical Care Medicine</i> , 2013, 41, e1-e2.	0.4	0
105	Does High-Frequency Ventilation Have Still a Role Among the Current Ventilatory Strategies?. , 2016, , 69-78.		0
106	A year in review in <i>Minerva Anestesiologica</i> 2016. <i>Critical Care. Experimental and clinical studies. Minerva Anestesiologica</i> , 2017, 83, 108-120.	0.6	0
107	A year in review in <i>Minerva Anestesiologica</i> 2017 <i>Critical Care: experimental and clinical studies. Minerva Anestesiologica</i> , 2018, 84, 128-139.	0.6	0
108	A year in review in <i>Minerva Anestesiologica</i> 2018. <i>Critical care. Experimental and clinical studies. Minerva Anestesiologica</i> , 2019, 85, 95-105.	0.6	0

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109	Monitoring Mechanical Ventilation. , 2006, , 137-148.		0
110	Hemoptysis due to a large endobronchial mass successful regression after the use of high flow nasal cannula. Monaldi Archives for Chest Disease, 2020, 90, .	0.3	0
111	Hemoptysis due to a large endobronchial mass successful regression after the use of high flow nasal cannula. Monaldi Archives for Chest Disease, 2020, 90, .	0.3	0