

Alessandro Beda

List of Publications by Year in descending order

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47
papers

1,032
citations

430874

18
h-index

414414

32
g-index

48
all docs

48
docs citations

48
times ranked

1112
citing authors

#	ARTICLE	IF	CITATIONS
1	Individualized positive end-expiratory pressure in obese patients during general anaesthesia: a randomized controlled clinical trial using electrical impedance tomography. <i>British Journal of Anaesthesia</i> , 2017, 119, 1194-1205.	3.4	150
2	Pressure support improves oxygenation and lung protection compared to pressure-controlled ventilation and is further improved by random variation of pressure support*. <i>Critical Care Medicine</i> , 2011, 39, 746-755.	0.9	71
3	Heart-rate and blood-pressure variability during psychophysiological tasks involving speech: Influence of respiration. <i>Psychophysiology</i> , 2007, 44, 767-778.	2.4	69
4	Size at Birth and Autonomic Function During Psychological Stress. <i>Hypertension</i> , 2007, 49, 548-555.	2.7	66
5	Sex-specific programming of cardiovascular physiology in children. <i>European Heart Journal</i> , 2008, 29, 2164-2170.	2.2	57
6	Extrapolation from ten sections can make CT-based quantification of lung aeration more practicable. <i>Intensive Care Medicine</i> , 2010, 36, 1836-1844.	8.2	53
7	Distribution of regional lung aeration and perfusion during conventional and noisy pressure support ventilation in experimental lung injury. <i>Journal of Applied Physiology</i> , 2011, 110, 1083-1092.	2.5	47
8	Higher Levels of Spontaneous Breathing Induce Lung Recruitment and Reduce Global Stress/Strain in Experimental Lung Injury. <i>Anesthesiology</i> , 2014, 120, 673-682.	2.5	44
9	Pressure Support Ventilation and Biphasic Positive Airway Pressure Improve Oxygenation by Redistribution of Pulmonary Blood Flow. <i>Anesthesia and Analgesia</i> , 2009, 109, 856-865.	2.2	43
10	Low-frequency heart rate variability is related to the breath-to-breath variability in the respiratory pattern. <i>Psychophysiology</i> , 2014, 51, 197-205.	2.4	42
11	Individualised positive end-expiratory pressure guided by electrical impedance tomography for robot-assisted laparoscopic radical prostatectomy: a prospective, randomised controlled clinical trial. <i>British Journal of Anaesthesia</i> , 2020, 125, 373-382.	3.4	38
12	Individualized <i>versus</i> Fixed Positive End-expiratory Pressure for Intraoperative Mechanical Ventilation in Obese Patients: A Secondary Analysis. <i>Anesthesiology</i> , 2021, 134, 887-900.	2.5	38
13	Comparative effects of proportional assist and variable pressure support ventilation on lung function and damage in experimental lung injury*. <i>Critical Care Medicine</i> , 2012, 40, 2654-2661.	0.9	35
14	Higher Levels of Spontaneous Breathing Reduce Lung Injury in Experimental Moderate Acute Respiratory Distress Syndrome*. <i>Critical Care Medicine</i> , 2014, 42, e702-e715.	0.9	34
15	Effects of Intravascular Volume Replacement on Lung and Kidney Function and Damage in Nonseptic Experimental Lung Injury. <i>Anesthesiology</i> , 2013, 118, 395-408.	2.5	31
16	Short-term effects of noisy pressure support ventilation in patients with acute hypoxemic respiratory failure. <i>Critical Care</i> , 2013, 17, R261.	5.8	28
17	Mapping Regional Differences of Local Pressure-Volume Curves With Electrical Impedance Tomography. <i>Critical Care Medicine</i> , 2017, 45, 679-686.	0.9	22
18	Extrapolation in the analysis of lung aeration by computed tomography: a validation study. <i>Critical Care</i> , 2011, 15, R279.	5.8	19

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19	Cardio-respiratory interactions and relocation of heartbeats within the respiratory cycle during spontaneous and paced breathing. <i>Physiological Measurement</i> , 2011, 32, 1389-1401.	2.1	14
20	Coherence analysis overestimates the role of baroreflex in governing the interactions between heart period and systolic arterial pressure variabilities during general anesthesia. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2013, 178, 83-88.	2.8	14
21	A novel adaptive control system for noisy pressure-controlled ventilation: a numerical simulation and bench test study. <i>Intensive Care Medicine</i> , 2010, 36, 164-168.	8.2	13
22	Liquid- and Air-Filled Catheters without Balloon as an Alternative to the Air-Filled Balloon Catheter for Measurement of Esophageal Pressure. <i>PLoS ONE</i> , 2014, 9, e103057.	2.5	12
23	Effects of assisted and variable mechanical ventilation on cardiorespiratory interactions in anesthetized pigs. <i>Physiological Measurement</i> , 2012, 33, 503-519.	2.1	11
24	Periodic Fluctuation of Tidal Volumes Further Improves Variable Ventilation in Experimental Acute Respiratory Distress Syndrome. <i>Frontiers in Physiology</i> , 2018, 9, 905.	2.8	10
25	Mechanical Ventilation Strategies Targeting Different Magnitudes of Collapse and Tidal Recruitment in Porcine Acid Aspiration-Induced Lung Injury. <i>Journal of Clinical Medicine</i> , 2019, 8, 1250.	2.4	9
26	Combining Rate-Adaptive Cardiac Pacing Algorithms Via Multiagent Negotiation. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2006, 10, 11-18.	3.2	7
27	Comparison of objective methods to classify the pattern of respiratory sinus arrhythmia during mechanical ventilation and paced spontaneous breathing. <i>Physiological Measurement</i> , 2009, 30, 1151-1162.	2.1	7
28	Methods for Determination of Individual PEEP for Intraoperative Mechanical Ventilation Using a Decremental PEEP Trial. <i>Journal of Clinical Medicine</i> , 2022, 11, 3707.	2.4	7
29	Gain and coherence estimates between respiration and heart-rate: Differences between inspiration and expiration. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2013, 178, 89-95.	2.8	6
30	Physiological mechanism and spatial distribution of increased alveolar dead space in early ARDS: An experimental study. <i>Acta Anaesthesiologica Scandinavica</i> , 2021, 65, 100-108.	1.6	6
31	Estimation of confidence limits for descriptive indexes derived from autoregressive analysis of time series: Methods and application to heart rate variability. <i>PLoS ONE</i> , 2017, 12, e0183230.	2.5	6
32	Mechanical ventilation during anaesthesia: challenges and opportunities for investigating the respiration-related cardiovascular oscillations. <i>Biomedizinische Technik</i> , 2011, 56, 195-206.	0.8	5
33	Experimental blunt chest trauma " cardiorespiratory effects of different mechanical ventilation strategies with high positive end-expiratory pressure: a randomized controlled study. <i>BMC Anesthesiology</i> , 2015, 16, 3.	1.8	5
34	Recurrence plots for the assessment of patient-ventilator interactions quality during invasive mechanical ventilation. <i>Chaos</i> , 2018, 28, 085707.	2.5	4
35	A Numerical Model of the Respiratory Modulation of Pulmonary Shunt and PaO ₂ Oscillations for Acute Lung Injury. <i>Annals of Biomedical Engineering</i> , 2010, 38, 993-1006.	2.5	3
36	Changes in dead space can explain part of the reduction in gas exchange efficiency found, not necessarily linked to respiratory sinus arrhythmia. <i>Experimental Physiology</i> , 2008, 93, 513-514.	2.0	2

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37	Effects of Different Levels of Pressure Support on Intra-Individual Breath-to-Breath Variability. <i>Respiratory Care</i> , 2014, 59, 1888-1894.	1.6	2
38	Individual difference in baroreceptor sensitivity between increasing and decreasing blood pressure sequences. , 2014, , .		1
39	Development of a method to measure regional perfusion of the lung in anesthetized ponies using computed tomography angiography and the maximum slope model. <i>American Journal of Veterinary Research</i> , 2022, 83, 162-170.	0.6	1
40	Effects Of Spontaneous Breathing Superposed With Mandatory Cycles On Transpulmonary Pressure During BIPAP/APRV. , 2010, , .		0
41	Respiratory Sinus Arrhythmia And Respiratory Period During Attentional Tasks. , 2010, , .		0
42	Pressure Support Ventilation Improves Oxygenation With Less Lung Injury And Is Further Improved By Random Variation Of Pressure Support. , 2010, , .		0
43	Variable Pressure Support, Proportional Assist And Conventional Pressure Support Ventilation: A Comprehensive Evaluation In Experimental Acute Lung Injury. , 2010, , .		0
44	Effects Of Different Levels Of Spontaneous Breathing Activity During Biphasic Positive Airway Pressure Ventilation On Lung Function And Inflammation In Experimental Lung Injury. , 2011, , .		0
45	Respiratory Sinus Arrhythmia During Mechanical Ventilation In Anesthetized Pigs: Effects Of Spontaneous Triggering Of Inspiration And Variable Ventilation. , 2011, , .		0
46	Effects Of Random And Pseudo-Random Variable Ventilation On Lung Function In Experimental Lung Injury. , 2012, , .		0
47	An adaptive controller for noisy pressure controlled ventilation. <i>IFMBE Proceedings</i> , 2009, , 50-53.	0.3	0