

Dan S Karbing

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

850
citations

516710

16
h-index

526287

27
g-index

56
all docs

56
docs citations

56
times ranked

954
citing authors

#	ARTICLE	IF	CITATIONS
1	Variation in the PaO ₂ /FiO ₂ ratio with FiO ₂ : mathematical and experimental description, and clinical relevance. <i>Critical Care</i> , 2007, 11, R118.	5.8	128
2	Minimal model quantification of pulmonary gas exchange in intensive care patients. <i>Medical Engineering and Physics</i> , 2011, 33, 240-248.	1.7	66
3	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.	2.5	55
4	Effect of positive end-expiratory pressure on pulmonary shunt and dynamic compliance during abdominal surgery. <i>British Journal of Anaesthesia</i> , 2016, 116, 855-861.	3.4	51
5	Simulation Training for Residents Focused on Mechanical Ventilation. <i>Simulation in Healthcare</i> , 2017, 12, 349-355.	1.2	43
6	Changes in shunt, ventilation/perfusion mismatch, and lung aeration with PEEP in patients with ARDS: a prospective single-arm interventional study. <i>Critical Care</i> , 2020, 24, 111.	5.8	42
7	A model of ventilation of the healthy human lung. <i>Computer Methods and Programs in Biomedicine</i> , 2011, 101, 144-155.	4.7	35
8	Chronic high-dose beetroot juice supplementation improves time trial performance of well-trained cyclists in normoxia and hypoxia. <i>Nitric Oxide - Biology and Chemistry</i> , 2019, 85, 44-52.	2.7	32
9	Relative Age Effect and the Re-Selection of Danish Male Handball Players for National Teams. <i>Journal of Human Kinetics</i> , 2018, 63, 33-41.	1.5	27
10	The effect of tissue elastic properties and surfactant on alveolar stability. <i>Journal of Applied Physiology</i> , 2010, 109, 1369-1377.	2.5	26
11	The role of community in the development of elite handball and football players in Denmark. <i>European Journal of Sport Science</i> , 2016, 16, 237-245.	2.7	26
12	An Open-Loop, Physiologic Model-Based Decision Support System Can Provide Appropriate Ventilator Settings. <i>Critical Care Medicine</i> , 2018, 46, e642-e648.	0.9	24
13	Prospective evaluation of a decision support system for setting inspired oxygen in intensive care patients. <i>Journal of Critical Care</i> , 2010, 25, 367-374.	2.2	22
14	Influence of population size, density, and proximity to talent clubs on the likelihood of becoming elite youth athlete. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2018, 28, 1304-1313.	2.9	22
15	Enabling a learning healthcare system with automated computer protocols that produce replicable and personalized clinician actions. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2021, 28, 1330-1344.	4.4	22
16	A decision support system for suggesting ventilator settings: Retrospective evaluation in cardiac surgery patients ventilated in the ICU. <i>Computer Methods and Programs in Biomedicine</i> , 2008, 92, 205-212.	4.7	21
17	Retrospective evaluation of a decision support system for controlled mechanical ventilation. <i>Medical and Biological Engineering and Computing</i> , 2012, 50, 43-51.	2.8	20
18	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.	1.6	16

#	ARTICLE	IF	CITATIONS
19	Clinical refinement of the automatic lung parameter estimator (ALPE). Journal of Clinical Monitoring and Computing, 2013, 27, 341-350.	1.6	15
20	Diffusion capacity of the lung for carbon monoxide – A potential marker of impaired gas exchange or of systemic deconditioning in chronic obstructive lung disease?. Chronic Respiratory Disease, 2015, 12, 357-364.	2.4	14
21	Determining the appropriate model complexity for patient-specific advice on mechanical ventilation. Biomedizinische Technik, 2017, 62, 183-198.	0.8	14
22	An open-loop, physiological model based decision support system can reduce pressure support while acting to preserve respiratory muscle function. Journal of Critical Care, 2018, 48, 407-413.	2.2	13
23	A mathematical model approach quantifying patients' response to changes in mechanical ventilation: Evaluation in volume support. Medical Engineering and Physics, 2015, 37, 341-349.	1.7	12
24	Variability of preference toward mechanical ventilator settings: A model-based behavioral analysis. Journal of Critical Care, 2011, 26, 637.e5-637.e12.	2.2	10
25	Can computed tomography classifications of chronic obstructive pulmonary disease be identified using Bayesian networks and clinical data?. Computer Methods and Programs in Biomedicine, 2013, 110, 361-368.	4.7	10
26	A Clinical Method for Estimation of VO2max Using Seismocardiography. International Journal of Sports Medicine, 2020, 41, 661-668.	1.7	9
27	A model of perfusion of the healthy human lung. Computer Methods and Programs in Biomedicine, 2011, 101, 156-165.	4.7	7
28	A mathematical model approach quantifying patients' response to changes in mechanical ventilation: Evaluation in pressure support. Journal of Critical Care, 2015, 30, 1008-1015.	2.2	7
29	Measuring gas exchange with step changes in inspired oxygen: an analysis of the assumption of oxygen steady state in patients suffering from COPD. Journal of Clinical Monitoring and Computing, 2014, 28, 547-558.	1.6	6
30	Reliability of, and Agreement Between, two Breath-by-Breath Indirect Calorimeters at Varying Levels of Inspiratory Oxygen. Nutrition in Clinical Practice, 2019, 34, 767-774.	2.4	6
31	Journal of Clinical Monitoring and Computing 2017 end of year summary: respiration. Journal of Clinical Monitoring and Computing, 2018, 32, 197-205.	1.6	5
32	Model-based decision support for pressure support mechanical ventilation - implementation of physiological and clinical preference models. IFAC-PapersOnLine, 2015, 48, 279-284.	0.9	4
33	Decision support system to evaluate ventilation in the acute respiratory distress syndrome (DeVENT) Tj ETQq1 1 0.784314 rgBT /Overlo	1.6	4
34	What is new in respiratory monitoring?. Journal of Clinical Monitoring and Computing, 2022, 36, 599-607.	1.6	4
35	Tidal breathing model describing end-tidal, alveolar, arterial and mixed venous CO2 and O2. Computer Methods and Programs in Biomedicine, 2011, 101, 166-172.	4.7	3
36	Mathematical Modelling of Pulmonary Gas Exchange. , 2014, , 281-309.		3

#	ARTICLE	IF	CITATIONS
37	Model-based advice for mechanical ventilation: From research (INVENT) to product (Beacon) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.784314	10
38	Electrical activity of the diaphragm during progressive cycling exercise in endurance-trained men. Respiratory Physiology and Neurobiology, 2015, 205, 77-83.	1.6	3
39	Journal of Clinical Monitoring and Computing 2016 end of year summary: respiration. Journal of Clinical Monitoring and Computing, 2017, 31, 247-252.	1.6	3
40	Multiple-day high-dose beetroot juice supplementation does not improve pulmonary or muscle deoxygenation kinetics of well-trained cyclists in normoxia and hypoxia. Nitric Oxide - Biology and Chemistry, 2021, 111-112, 37-44.	2.7	3
41	Decision support of inspired oxygen fraction using a model of oxygen transport. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 8080-8084.	0.4	2
42	Model-based measurement of gas exchange in healthy subjects using ALPE essential - influence of age, posture and gender. , 2013, 2013, 2441-4.		2
43	Modelling in anaesthesia and intensive care: a special section including papers from IFAC's 8. Symposium on Medical and Biological Systems in Budapest 2012. Journal of Clinical Monitoring and Computing, 2014, 28, 499-500.	1.6	2
44	A mathematical model for simulating respiratory control during support ventilation modes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 8433-8438.	0.4	2
45	Journal of Clinical Monitoring and Computing 2015 end of year summary: respiration. Journal of Clinical Monitoring and Computing, 2016, 30, 7-12.	1.6	2
46	Quantitative Assessment of Pulmonary Shunt and Ventilation-Perfusion Mismatch without a Blood Sample. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4255-8.	0.5	1
47	Measuring Gas Exchange with Step Changes in Inspired Oxygen: An Analysis of the Assumption of Oxygen Steady State. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 507-511.	0.4	1
48	Journal of clinical monitoring and computing 2014 end of year summary: respiration. Journal of Clinical Monitoring and Computing, 2015, 29, 209-215.	1.6	1
49	The Intelligent Ventilator Project: Application of Physiological Models in Decision Support. Lecture Notes in Computer Science, 2011, , 149-158.	1.3	1
50	The effect of arteriolar resistance on perfusion distribution in a model of the pulmonary perfusion. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 5018-5023.	0.4	0
51	A stratified model of pulmonary gas exchange. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 512-517.	0.4	0
52	A Pilot Bench Study of Decision Support for Proportional Assist Ventilation. , 2019, 2019, 2348-2352.		0
53	Journal of Clinical Monitoring and Computing 2018-2019 end of year summary: respiration. Journal of Clinical Monitoring and Computing, 2020, 34, 197-205.	1.6	0
54	Transparent decision support for mechanical ventilation using visualization of clinical preferences. BioMedical Engineering OnLine, 2022, 21, 5.	2.7	0