

# Rui C SÃ;

## List of Publications by Year in descending order

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54  
papers

783  
citations

686830

13  
h-index

525886

27  
g-index

54  
all docs

54  
docs citations

54  
times ranked

973  
citing authors

#	ARTICLE	IF	CITATIONS
1	Face Masks and the Cardiorespiratory Response to Physical Activity in Health and Disease. <i>Annals of the American Thoracic Society</i> , 2021, 18, 399-407.	1.5	118
2	Vertical distribution of specific ventilation in normal supine humans measured by oxygen-enhanced proton MRI. <i>Journal of Applied Physiology</i> , 2010, 109, 1950-1959.	1.2	105
3	The gravitational distribution of ventilation-perfusion ratio is more uniform in prone than supine posture in the normal human lung. <i>Journal of Applied Physiology</i> , 2013, 115, 313-324.	1.2	98
4	Advances in functional and structural imaging of the human lung using proton MRI. <i>NMR in Biomedicine</i> , 2014, 27, 1542-1556.	1.6	49
5	Validating the distribution of specific ventilation in healthy humans measured using proton MR imaging. <i>Journal of Applied Physiology</i> , 2014, 116, 1048-1056.	1.2	44
6	Measuring lung water: Ex vivo validation of multi-echo gradient echo MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 34, 220-224.	1.9	31
7	Inhaled nitric oxide alters the distribution of blood flow in the healthy human lung, suggesting active hypoxic pulmonary vasoconstriction in normoxia. <i>Journal of Applied Physiology</i> , 2015, 118, 331-343.	1.2	30
8	Automated breath detection on long-duration signals using feedforward backpropagation artificial neural networks. <i>IEEE Transactions on Biomedical Engineering</i> , 2002, 49, 1130-1141.	2.5	22
9	A Method for the Analysis of Respiratory Sinus Arrhythmia Using Continuous Wavelet Transforms. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 1640-1642.	2.5	22
10	Effect of Posture on Regional Deposition of Coarse Particles in the Healthy Human Lung. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2015, 28, 423-431.	0.7	21
11	Measurement of the distribution of ventilation-perfusion ratios in the human lung with proton MRI: comparison with the multiple inert-gas elimination technique. <i>Journal of Applied Physiology</i> , 2017, 123, 136-146.	1.2	20
12	Spatial-temporal dynamics of pulmonary blood flow in the healthy human lung in response to altered FIO <sub>2</sub> . <i>Journal of Applied Physiology</i> , 2013, 114, 107-118.	1.2	17
13	Magnetic Resonance Imaging Quantification of Pulmonary Perfusion using Calibrated Arterial Spin Labeling. <i>Journal of Visualized Experiments</i> , 2011, , .	0.2	14
14	Microgravity alters respiratory abdominal and rib cage motion during sleep. <i>Journal of Applied Physiology</i> , 2009, 107, 1406-1412.	1.2	12
15	Removal of sedimentation decreases relative deposition of coarse particles in the lung periphery. <i>Journal of Applied Physiology</i> , 2013, 115, 546-555.	1.2	12
16	The heterogeneity of regional specific ventilation is unchanged following heavy exercise in athletes. <i>Journal of Applied Physiology</i> , 2013, 115, 126-135.	1.2	12
17	Spatial persistence of reduced specific ventilation following methacholine challenge in the healthy human lung. <i>Journal of Applied Physiology</i> , 2018, 124, 1222-1232.	1.2	11
18	Rapid Prototyping of Inspired Gas Delivery System for Pulmonary MRI Research. <i>3D Printing and Additive Manufacturing</i> , 2015, 2, 196-203.	1.4	10

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19	Regional Ventilation Is the Main Determinant of Alveolar Deposition of Coarse Particles in the Supine Healthy Human Lung During Tidal Breathing. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2017, 30, 322-331.	0.7	10
20	Vaping disrupts ventilation-perfusion matching in asymptomatic users. <i>Journal of Applied Physiology</i> , 2021, 130, 308-317.	1.2	10
21	The effect of supine exercise on the distribution of regional pulmonary blood flow measured using proton MRI. <i>Journal of Applied Physiology</i> , 2014, 116, 451-461.	1.2	9
22	Evidence from high-altitude acclimatization for an integrated cerebrovascular and ventilatory hypercapnic response but different responses to hypoxia. <i>Journal of Applied Physiology</i> , 2017, 123, 1477-1486.	1.2	9
23	Comparison of quantitative multiple-breath specific ventilation imaging using colocalized 2D oxygen-enhanced MRI and hyperpolarized 3He MRI. <i>Journal of Applied Physiology</i> , 2018, 125, 1526-1535.	1.2	9
24	Rapid intravenous infusion of 20mL/kg saline alters the distribution of perfusion in healthy supine humans. <i>Respiratory Physiology and Neurobiology</i> , 2012, 180, 331-341.	0.7	8
25	In silico modeling of oxygen-enhanced MRI of specific ventilation. <i>Physiological Reports</i> , 2018, 6, e13659.	0.7	8
26	Prone positioning redistributes gravitational stress in the lung in normal conditions and in simulations of oedema. <i>Experimental Physiology</i> , 2022, 107, 771-782.	0.9	8
27	Susceptibility to high-altitude pulmonary edema is associated with a more uniform distribution of regional specific ventilation. <i>Journal of Applied Physiology</i> , 2017, 122, 844-852.	1.2	7
28	Regional airflow obstruction after bronchoconstriction and subsequent bronchodilation in subjects without pulmonary disease. <i>Journal of Applied Physiology</i> , 2019, 127, 31-39.	1.2	7
29	Heavy upright exercise increases ventilation-perfusion mismatch in the basal lung: indirect evidence for interstitial pulmonary edema. <i>Journal of Applied Physiology</i> , 2019, 127, 473-481.	1.2	7
30	Regional pulmonary perfusion patterns in humans are not significantly altered by inspiratory hypercapnia. <i>Journal of Applied Physiology</i> , 2019, 127, 365-375.	1.2	7
31	The effect of lung deformation on the spatial distribution of pulmonary blood flow. <i>Journal of Physiology</i> , 2016, 594, 6333-6347.	1.3	5
32	The spatial pattern of methacholine bronchoconstriction recurs when supine independently of posture during provocation but does not recur between postures. <i>Journal of Applied Physiology</i> , 2018, 125, 1720-1730.	1.2	5
33	Ventilatory heterogeneity in the normal human lung is unchanged by controlled breathing. <i>Journal of Applied Physiology</i> , 2020, 129, 1152-1160.	1.2	5
34	Cardiogenic mixing increases aerosol deposition in the human lung in the absence of gravity. <i>Acta Astronautica</i> , 2013, 92, 15-20.	1.7	4
35	Pulmonary Delivery of Therapeutic and Diagnostic Gases. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2018, 31, 78-87.	0.7	4
36	Abnormal pulmonary perfusion heterogeneity in patients with Fontan circulation and pulmonary arterial hypertension. <i>Journal of Physiology</i> , 2021, 599, 343-356.	1.3	4

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37	Ventilationâ€™perfusion heterogeneity measured by the multiple inert gas elimination technique is minimally affected by intermittent breathing of 100% O <sub>2</sub> . Physiological Reports, 2020, 8, e14488.	0.7	4
38	It's about numbers, not pictures. Journal of Applied Physiology, 2014, 116, 127-128.	1.2	3
39	Quantitative Mapping of Specific Ventilation in the Human Lung using Proton Magnetic Resonance Imaging and Oxygen as a Contrast Agent. Journal of Visualized Experiments, 2019, , .	0.2	2
40	Positive End-expiratory Pressure Does Not Alter The Distribution Of Perfusion In The Healthy Supine Human Lung. , 2010, , .		0
41	Specific Ventilation Imaging Using Oxygen-enhanced Proton MRI. , 2010, , .		0
42	Regional T2* May Reflect The Presence Of Dependent Airways Closure. , 2010, , .		0
43	Rapid Intravenous Infusion Of 20 ML/kg Saline Alters The Distribution Of Perfusion In Healthy Supine Humans. , 2011, , .		0
44	Spatial-Temporal Heterogeneity Of Pulmonary Blood Flow Is Altered By Changes In FIO <sub>2</sub> . , 2011, , .		0
45	Identification Of The Gas Exchange Defects Present In Chronic Obstructive Pulmonary Disease Patients Noninvasively Using Magnetic Resonance Imaging. , 2012, , .		0
46	Validation Of The Distribution Of Specific Ventilation Obtained By Proton MR Imaging. , 2012, , .		0
47	Ventilation-Perfusion Heterogeneity In The Lung: Insights From The Underlying Distributions Of Ventilation And Perfusion. , 2012, , .		0
48	Effect of Posture and PEEP on the Regional Distribution of Inflation and Stretch in the Normal Lung. , 2019, , .		0
49	The Spatial Scale of Pulmonary Vascular Fractal Behavior in Pulmonary Arterial Disease. , 2019, , .		0
50	Increased Ventilation-Perfusion Heterogeneity in the Basal Lung Following Heavy Exercise Is Consistent with Development of Interstitial Pulmonary Edema. , 2019, , .		0
51	Effect of E-Cigarettes on Gas Exchange: Vaping Induces Acute Ventilation-Perfusion Mismatch in Asymptomatic Users. , 2020, , .		0
52	Controlled Breathing Does Not Alter Heterogeneity of Specific Ventilation in the Normal Lung. , 2020, , .		0
53	The Spatial Heterogeneity of Perfusion Increases in Longstanding Moderate-Persistent Asthmatics When Hypoxic Pulmonary Vasoconstriction Is Released. , 2020, , .		0
54	Measuring short-term changes in specific ventilation using dynamic specific ventilation imaging. Journal of Applied Physiology, 2022, 132, 1370-1378.	1.2	0