

# Guido Musch

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

2,153  
citations

361413

20  
h-index

580821

25  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1570  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-organized patchiness in asthma as a prelude to catastrophic shifts. <i>Nature</i> , 2005, 434, 777-782.	27.8	504
2	Topographical distribution of pulmonary perfusion and ventilation, assessed by PET in supine and prone humans. <i>Journal of Applied Physiology</i> , 2002, 93, 1841-1851.	2.5	199
3	Lung Regional Metabolic Activity and Gas Volume Changes Induced by Tidal Ventilation in Patients with Acute Lung Injury. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2011, 183, 1193-1199.	5.6	188
4	Effect of Prone Position on Regional Shunt, Aeration, and Perfusion in Experimental Acute Lung Injury. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2005, 172, 480-487.	5.6	186
5	Lungs of patients with acute respiratory distress syndrome show diffuse inflammation in normally aerated regions: A [ <sup>18</sup> F]-fluoro-2-deoxy-D-glucose PET/CT study. <i>Critical Care Medicine</i> , 2009, 37, 2216-2222.	0.9	160
6	Regional Gas Exchange and Cellular Metabolic Activity in Ventilator-induced Lung Injury. <i>Anesthesiology</i> , 2007, 106, 723-735.	2.5	112
7	Mechanism by Which a Sustained Inflation Can Worsen Oxygenation in Acute Lung Injury. <i>Anesthesiology</i> , 2004, 100, 323-330.	2.5	102
8	Effect of Local Tidal Lung Strain on Inflammation in Normal and Lipopolysaccharide-Exposed Sheep*. <i>Critical Care Medicine</i> , 2014, 42, e491-e500.	0.9	90
9	Quantification of regional ventilation-perfusion ratios with PET. <i>Journal of Nuclear Medicine</i> , 2003, 44, 1982-91.	5.0	87
10	Relation between Shunt, Aeration, and Perfusion in Experimental Acute Lung Injury. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2008, 177, 292-300.	5.6	71
11	Mild Endotoxemia during Mechanical Ventilation Produces Spatially Heterogeneous Pulmonary Neutrophilic Inflammation in Sheep. <i>Anesthesiology</i> , 2010, 112, 658-669.	2.5	64
12	Spatial Heterogeneity of Lung Perfusion Assessed with <sup>13</sup> N PET as a Vascular Biomarker in Chronic Obstructive Pulmonary Disease. <i>Journal of Nuclear Medicine</i> , 2010, 51, 57-65.	5.0	55
13	Measurement of Regional Specific Lung Volume Change Using Respiratory-Gated PET of Inhaled <sup>13</sup> N-Nitrogen. <i>Journal of Nuclear Medicine</i> , 2010, 51, 646-653.	5.0	47
14	Effects of surfactant depletion on regional pulmonary metabolic activity during mechanical ventilation. <i>Journal of Applied Physiology</i> , 2011, 111, 1249-1258.	2.5	41
15	Positron Emission Tomography Imaging of Regional Pulmonary Perfusion and Ventilation. <i>Proceedings of the American Thoracic Society</i> , 2005, 2, 522-527.	3.5	40
16	The prone position results in smaller ventilation defects during bronchoconstriction in asthma. <i>Journal of Applied Physiology</i> , 2009, 107, 266-274.	2.5	33
17	Effects of ventilation strategy on distribution of lung inflammatory cell activity. <i>Critical Care</i> , 2013, 17, R175.	5.8	33
18	<sup>18</sup> F-FDG Kinetics Parameters Depend on the Mechanism of Injury in Early Experimental Acute Respiratory Distress Syndrome. <i>Journal of Nuclear Medicine</i> , 2014, 55, 1871-1877.	5.0	33

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19	Lung Metabolic Activation as an Early Biomarker of Acute Respiratory Distress Syndrome and Local Gene Expression Heterogeneity. <i>Anesthesiology</i> , 2016, 125, 992-1004.	2.5	24
20	Relation between Respiratory Mechanics, Inflammation, and Survival in Experimental Mechanical Ventilation. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2019, 60, 179-188.	2.9	24
21	Regional Lung Derecruitment and Inflammation during 16 Hours of Mechanical Ventilation in Supine Healthy Sheep. <i>Anesthesiology</i> , 2013, 119, 156-165.	2.5	19
22	Positron emission tomography: a tool for better understanding of ventilator-induced and acute lung injury. <i>Current Opinion in Critical Care</i> , 2011, 17, 7-12.	3.2	17
23	Lung [18F]fluorodeoxyglucose Uptake and Ventilationâ€“Perfusion Mismatch in the Early Stage of Experimental Acute Smoke Inhalation. <i>Anesthesiology</i> , 2014, 120, 683-693.	2.5	12
24	Reduced pulmonary blood flow in regions of injury 2Âˆhours after acid aspiration in rats. <i>BMC Anesthesiology</i> , 2015, 15, 36.	1.8	10
25	A Window on the Lung: Molecular Imaging as a Tool to Dissect Pathophysiologic Mechanisms of Acute Lung Disease. <i>Contrast Media and Molecular Imaging</i> , 2019, 2019, 1-7.	0.8	2