

# Maurizio Cereda

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

674  
citations

687363

13  
h-index

580821

25  
g-index

35  
all docs

35  
docs citations

35  
times ranked

847  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Characteristics, Outcomes, and Trends of Patients With COVID-19-Related Critical Illness at a Learning Health System in the United States. <i>Annals of Internal Medicine</i> , 2021, 174, 613-621.  | 3.9 | 90        |
| 2  | Computed tomography assessment of PEEP-induced alveolar recruitment in patients with severe COVID-19 pneumonia. <i>Critical Care</i> , 2021, 25, 81.   | 5.8 | 59        |
| 3  | Imaging the Interaction of Atelectasis and Overdistension in Surfactant-Depleted Lungs*. <i>Critical Care Medicine</i> , 2013, 41, 527-535.  | 0.9 | 42        |
| 4  | Regional Fractional Ventilation by Using Multibreath Wash-in <sup>3</sup> He MR Imaging. <i>Radiology</i> , 2016, 279, 917-924.  | 7.3 | 39        |
| 5  | Tidal changes on CT and progression of ARDS. <i>Thorax</i> , 2017, 72, 981-989.  | 5.6 | 39        |
| 6  | Lung distribution of gas and blood volume in critically ill COVID-19 patients: a quantitative dual-energy computed tomography study. <i>Critical Care</i> , 2021, 25, 214.   | 5.8 | 39        |
| 7  | Quantitative imaging of alveolar recruitment with hyperpolarized gas MRI during mechanical ventilation. <i>Journal of Applied Physiology</i> , 2011, 110, 499-511.   | 2.5 | 37        |
| 8  | Unstable Inflation Causing Injury. Insight from Prone Position and Paired Computed Tomography Scans. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 198, 197-207.   | 5.6 | 32        |
| 9  | CT image segmentation for inflamed and fibrotic lungs using a multi-resolution convolutional neural network. <i>Scientific Reports</i> , 2021, 11, 1455.   | 3.3 | 32        |
| 10 | Imaging the Injured Lung. <i>Anesthesiology</i> , 2019, 131, 716-749.  | 2.5 | 29        |
| 11 | Visualizing the Propagation of Acute Lung Injury. <i>Anesthesiology</i> , 2016, 124, 121-131.  | 2.5 | 25        |
| 12 | Semiautomatic segmentation of longitudinal computed tomography images in a rat model of lung injury by surfactant depletion. <i>Journal of Applied Physiology</i> , 2015, 118, 377-385.  | 2.5 | 20        |
| 13 | Computational lung modelling in respiratory medicine. <i>Journal of the Royal Society Interface</i> , 2022, 19, .  | 3.4 | 15        |
| 14 | Cecal ligation and puncture accelerates development of ventilator-induced lung injury. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 308, L443-L451.  | 2.9 | 14        |
| 15 | A hybrid multibreath wash-in wash-out lung function quantification scheme in human subjects using hyperpolarized <sup>3</sup> He MRI for simultaneous assessment of specific ventilation, alveolar oxygen tension, oxygen uptake, and air trapping. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 611-624. | 3.0 | 14        |
| 16 | Clinical Impact of an Electronic Dashboard and Alert System for Sedation Minimization and Ventilator Liberation: A Before-After Study. , 2019, 1, e0057.   |     | 14        |
| 17 | Diminishing Efficacy of Prone Positioning With Late Application in Evolving Lung Injury. <i>Critical Care Medicine</i> , 2021, 49, e1015-e1024.  | 0.9 | 14        |
| 18 | Positive End-expiratory Pressure Increments during Anesthesia in Normal Lung Result in Hysteresis and Greater Numbers of Smaller Aerated Airspaces. <i>Anesthesiology</i> , 2013, 119, 1402-1409.  | 2.5 | 14        |

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|----|--|-----|-----------|
| 19 | Mild loss of lung aeration augments stretch in healthy lung regions. <i>Journal of Applied Physiology</i> , 2016, 120, 444-454.  | 2.5 | 13        |
| 20 | Lung Metabolism and Inflammation during Mechanical Ventilation; An Imaging Approach. <i>Scientific Reports</i> , 2018, 8, 3525.  | 3.3 | 12        |
| 21 | Efficacy of Oscillation and Lung Expansion in Reducing Postoperative Pulmonary Complication. <i>Journal of the American College of Surgeons</i> , 2019, 229, 458-466e1.                                      | 0.5 | 11        |
| 22 | Effects of Lung Injury on Regional Aeration and Expiratory Time Constants: Insights From Four-Dimensional Computed Tomography Image Registration. <i>Frontiers in Physiology</i> , 2021, 12, 707119.         | 2.8 | 11        |
| 23 | Hyperpolarized gas diffusion MRI for the study of atelectasis and acute respiratory distress syndrome. <i>NMR in Biomedicine</i> , 2014, 27, 1468-1478.  | 2.8 | 10        |
| 24 | A Community-Based Model to the COVID-19 Humanitarian Crisis. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 639579.   | 3.9 | 8         |
| 25 | Early versus late intubation in COVID-19 patients failing helmet CPAP: A quantitative computed tomography study. <i>Respiratory Physiology and Neurobiology</i> , 2022, 301, 103889.                         | 1.6 | 8         |
| 26 | A Model for Predicting Future FEV1 Decline in Smokers Using Hyperpolarized 3He Magnetic Resonance Imaging. <i>Academic Radiology</i> , 2019, 26, 383-394.  | 2.5 | 7         |
| 27 | Pulmonary pyruvate metabolism as an index of inflammation and injury in a rat model of acute respiratory distress syndrome. <i>NMR in Biomedicine</i> , 2020, 33, e4380.                                     | 2.8 | 6         |
| 28 | The Critically Ill Injured Patient. <i>Anesthesiology Clinics</i> , 2007, 25, 13-21.   | 1.4 | 4         |
| 29 | Hyperpolarized gas diffusion MRI of biphasic lung inflation in short- and long-term emphysema models. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017, 313, L305-L312. | 2.9 | 4         |
| 30 | Multibreath Hyperpolarized 3He Imaging Scheme to Measure Alveolar Oxygen Tension and Apparent Diffusion Coefficient. <i>Academic Radiology</i> , 2019, 26, 367-382.  | 2.5 | 4         |
| 31 | Compartmentalization of Lung Injuryâ€™ Atelectasis Versus Overstretch*. <i>Critical Care Medicine</i> , 2014, 42, 223-224.   | 0.9 | 3         |
| 32 | Coronavirus Disease 2019 and Acute Respiratory Distress Syndrome: Why the Intensivist Is More Important Than Ever. <i>Critical Care Medicine</i> , 2020, 48, 1838-1840.                                      | 0.9 | 2         |
| 33 | Imatinib alleviates lung injury and prolongs survival in ventilated rats. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2022, 322, L866-L872.                             | 2.9 | 2         |
| 34 | Early Regional Inflammation. <i>Anesthesiology</i> , 2016, 125, 838-840.   | 2.5 | 1         |
| 35 | Low Stretch Ventilation. <i>Anesthesiology</i> , 2020, 132, 944-946.   | 2.5 | 0         |