

Hooman Hamedani

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

419
citations

687363

13
h-index

839539

18
g-index

46
all docs

46
docs citations

46
times ranked

472
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Regional Fractional Ventilation by Using Multibreath Wash-in ^3He MR Imaging. <i>Radiology</i> , 2016, 279, 917-924. | 7.3 | 39 |
| 2 | Tidal changes on CT and progression of ARDS. <i>Thorax</i> , 2017, 72, 981-989. | 5.6 | 39 |
| 3 | The use of hyperpolarized carbon-13 magnetic resonance for molecular imaging. <i>Advanced Drug Delivery Reviews</i> , 2017, 113, 3-23. | 13.7 | 32 |
| 4 | A multislice single breath hold scheme for imaging alveolar oxygen tension in humans. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 1332-1345. | 3.0 | 20 |
| 5 | 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 |
| 6 | Assessment of flip angle TR equivalence for standardized dissolved phase imaging of the lung with hyperpolarized ^{129}Xe MRI. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1784-1794. | 3.0 | 20 |
| 7 | Alterations of Regional Alveolar Oxygen Tension in Asymptomatic Current Smokers: Assessment with Hyperpolarized ^3He MR Imaging. <i>Radiology</i> , 2015, 274, 585-596. | 7.3 | 19 |
| 8 | Quantification of Ventilation and Gas Uptake in Free-Breathing Mice With Hyperpolarized ^{129}Xe MRI. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 2081-2091. | 8.9 | 16 |
| 9 | A variability study of regional alveolar oxygen tension measurement in humans using hyperpolarized ^3He MRI. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 1557-1566. | 3.0 | 15 |
| 10 | Ascorbic acid prolongs the viability and stability of isolated perfused lungs: A mechanistic study using ^{31}P and hyperpolarized ^{13}C nuclear magnetic resonance. <i>Free Radical Biology and Medicine</i> , 2015, 89, 62-71. | 2.9 | 15 |
| 11 | A hybrid multibreath wash-in wash-out lung function quantification scheme in human subjects using hyperpolarized ^3He 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 |
| 12 | Diminishing Efficacy of Prone Positioning With Late Application in Evolving Lung Injury. <i>Critical Care Medicine</i> , 2021, 49, e1015-e1024. | 0.9 | 14 |
| 13 | Accelerated fractional ventilation imaging with hyperpolarized Gas MRI. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 1353-1359. | 3.0 | 13 |
| 14 | Vertical gradients in regional alveolar oxygen tension in supine human lung imaged by hyperpolarized ^3He MRI. <i>NMR in Biomedicine</i> , 2014, 27, 1439-1450. | 2.8 | 13 |
| 15 | Mild loss of lung aeration augments stretch in healthy lung regions. <i>Journal of Applied Physiology</i> , 2016, 120, 444-454. | 2.5 | 13 |
| 16 | Lung Metabolism and Inflammation during Mechanical Ventilation; An Imaging Approach. <i>Scientific Reports</i> , 2018, 8, 3525. | 3.3 | 12 |
| 17 | Multislice fractional ventilation imaging in large animals with hyperpolarized gas MRI. <i>NMR in Biomedicine</i> , 2012, 25, 1015-1025. | 2.8 | 10 |
| 18 | Assessment of Pulmonary Gas Transport in Rabbits Using Hyperpolarized Xenon-129 Magnetic Resonance Imaging. <i>Scientific Reports</i> , 2018, 8, 7310. | 3.3 | 9 |

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|----|--|-----|-----------|
| 19 | In vivo imaging of the progression of acute lung injury using hyperpolarized [^{13}C] pyruvate. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 2106-2115. | 3.0 | 8 |
| 20 | Rapid assessment of pulmonary gas transport with hyperpolarized ^{129}Xe MRI using a 3D radial double golden means acquisition with variable flip angles. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 2439-2448. | 3.0 | 8 |
| 21 | Detection of lung transplant rejection in a rat model using hyperpolarized [^{13}C] pyruvate-based metabolic imaging. <i>NMR in Biomedicine</i> , 2019, 32, e4107. | 2.8 | 8 |
| 22 | Oxygen-weighted Hyperpolarized ^3He MR Imaging: A Short-term Reproducibility Study in Human Subjects. <i>Radiology</i> , 2015, 277, 247-258. | 7.3 | 7 |
| 23 | 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 |
| 24 | Regional Alveolar Partial Pressure of Oxygen Measurement with Parallel Accelerated Hyperpolarized Gas MRI. <i>Academic Radiology</i> , 2013, 20, 1224-1233. | 2.5 | 6 |
| 25 | 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 |
| 26 | 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 |
| 27 | Measurement of Regional 2D Gas Transport Efficiency in Rabbit Lung Using Hyperpolarized ^{129}Xe MRI. <i>Scientific Reports</i> , 2019, 9, 2413. | 3.3 | 4 |
| 28 | 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 |
| 29 | Measuring pulmonary gas exchange using compartment-selective xenon polarization transfer contrast (XTC) MRI. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2709-2722. | 3.0 | 4 |
| 30 | Ventilation heterogeneity imaged by multibreath wash-ins of hyperpolarized ^3He and ^{129}Xe in healthy rabbits. <i>Journal of Physiology</i> , 2021, 599, 4197-4223. | 2.9 | 4 |
| 31 | Simultaneous Imaging of Ventilation and Gas Exchange with Hyperpolarized ^{129}Xe MRI for Monitoring Patients with Endobronchial Valve Interventions. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, , . | 5.6 | 4 |
| 32 | Imaging Of Airway Remodeling In A Murine Model Of Bronchial Hyper-Responsiveness Using Hyperpolarized Gas MRI. , 2011, , . | | 3 |
| 33 | Multibreath alveolar oxygen tension imaging. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1092-1101. | 3.0 | 3 |
| 34 | Investigating biases in the measurement of apparent alveolar septal wall thickness with hyperpolarized ^{129}Xe MRI. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 3027-3039. | 3.0 | 3 |
| 35 | 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 |
| 36 | Deriving Regionally Specific Biomarkers of Emphysema and Small Airways Disease Using Variable Threshold Parametric Response Mapping on Volumetric Lung CT Images. <i>Academic Radiology</i> , 2021, , . | 2.5 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|----|-----------|
| 37 | Imaging Regional Heterogeneity Of Pulmonary Oxygen Tension As A Diagnostic Tool For Obstructive Lung Diseases. , 2011, , . | | 0 |
| 38 | Imaging Regional Alterations Of Gas Exchange In A Murine Model Of Emphysema. , 2011, , . | | 0 |
| 39 | Regional Measurement Of Respiratory Gas Arrival Time Constant With Hyperpolarized Gas MRI. , 2011, , . | | 0 |
| 40 | Reproducibility Assessment Of High Resolution Imaging Of Alveolar Oxygen Tension In Human Subjects. , 2011, , . | | 0 |
| 41 | Quantitative Assessment Of Chronic Exposure To Cigarette Smoke In Mouse Lungs By Hyperpolarized Gas MRI. , 2011, , . | | 0 |
| 42 | Accelerated Whole-Lung Imaging Of Specific Ventilation In Large Species With Hyperpolarized Gas MRI. , 2011, , . | | 0 |
| 43 | Reproducibility Assessment Of Of Hyperpolarized Gas Diffusion MRI Compared To Pulmonary Function Tests For Diagnostic Applications. , 2011, , . | | 0 |
| 44 | Quantification Of Regional Lung Microstructure Response To Positive End-Expiratory Pressure By Hyperpolarized Gas MRI In Surfactant Deficient Rats. , 2011, , . | | 0 |
| 45 | Quantitative Imaging Of Alveolar Recruitment With Hyperpolarized Gas MRI. , 2011, , . | | 0 |
| 46 | Non-Invasive Assessment Of Pulmonary Developmental Deficiency In A Model Of Transgenic Mice Using Hyperpolarized Gas Diffusion MRI. , 2011, , . | | 0 |