

Hooman Hamedani

List of Publications by Year in descending order

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papers

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687363

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472
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#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Diminishing Efficacy of Prone Positioning With Late Application in Evolving Lung Injury. <i>Critical Care Medicine</i> , 2021, 49, e1015-e1024.	0.9	14
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	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
14	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
15	Lung Metabolism and Inflammation during Mechanical Ventilation; An Imaging Approach. <i>Scientific Reports</i> , 2018, 8, 3525.	3.3	12
16	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
17	Assessment of Pulmonary Gas Transport in Rabbits Using Hyperpolarized Xenon- 129 Magnetic Resonance Imaging. <i>Scientific Reports</i> , 2018, 8, 7310.	3.3	9
18	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

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19	Hyperpolarized gas diffusion MRI of biphasic lung inflation in short- and long-term emphysema models. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 313, L305-L312.	2.9	4
20	Tidal changes on CT and progression of ARDS. Thorax, 2017, 72, 981-989.	5.6	39
21	A hybrid multibreath wash-in wash-out lung function quantification scheme in human subjects using hyperpolarized ³ He MRI for simultaneous assessment of specific ventilation, alveolar oxygen tension, oxygen uptake, and air trapping. Magnetic Resonance in Medicine, 2017, 78, 611-624.	3.0	14
22	The use of hyperpolarized carbon-13 magnetic resonance for molecular imaging. Advanced Drug Delivery Reviews, 2017, 113, 3-23.	13.7	32
23	Multibreath alveolar oxygen tension imaging. Magnetic Resonance in Medicine, 2016, 76, 1092-1101.	3.0	3
24	Regional Fractional Ventilation by Using Multibreath Wash-in ³ He MR Imaging. Radiology, 2016, 279, 917-924.	7.3	39
25	Mild loss of lung aeration augments stretch in healthy lung regions. Journal of Applied Physiology, 2016, 120, 444-454.	2.5	13
26	Alterations of Regional Alveolar Oxygen Tension in Asymptomatic Current Smokers: Assessment with Hyperpolarized ³ He MR Imaging. Radiology, 2015, 274, 585-596.	7.3	19
27	Ascorbic acid prolongs the viability and stability of isolated perfused lungs: A mechanistic study using ³¹ P and hyperpolarized ¹³ C nuclear magnetic resonance. Free Radical Biology and Medicine, 2015, 89, 62-71.	2.9	15
28	Oxygen-weighted Hyperpolarized ³ He MR Imaging: A Short-term Reproducibility Study in Human Subjects. Radiology, 2015, 277, 247-258.	7.3	7
29	Semiautomatic segmentation of longitudinal computed tomography images in a rat model of lung injury by surfactant depletion. Journal of Applied Physiology, 2015, 118, 377-385.	2.5	20
30	Vertical gradients in regional alveolar oxygen tension in supine human lung imaged by hyperpolarized ³ He MRI. NMR in Biomedicine, 2014, 27, 1439-1450.	2.8	13
31	Regional Alveolar Partial Pressure of Oxygen Measurement with Parallel Accelerated Hyperpolarized Gas MRI. Academic Radiology, 2013, 20, 1224-1233.	2.5	6
32	Accelerated fractional ventilation imaging with hyperpolarized Gas MRI. Magnetic Resonance in Medicine, 2013, 70, 1353-1359.	3.0	13
33	A variability study of regional alveolar oxygen tension measurement in humans using hyperpolarized ³ He MRI. Magnetic Resonance in Medicine, 2013, 70, 1557-1566.	3.0	15
34	A multislice single breath hold scheme for imaging alveolar oxygen tension in humans. Magnetic Resonance in Medicine, 2012, 67, 1332-1345.	3.0	20
35	Multislice fractional ventilation imaging in large animals with hyperpolarized gas MRI. NMR in Biomedicine, 2012, 25, 1015-1025.	2.8	10
36	Imaging Regional Heterogeneity Of Pulmonary Oxygen Tension As A Diagnostic Tool For Obstructive Lung Diseases. , 2011, , .		0

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37	Imaging Regional Alterations Of Gas Exchange In A Murine Model Of Emphysema. , 2011, , .		0
38	Imaging Of Airway Remodeling In A Murine Model Of Bronchial Hyper-Responsiveness Using Hyperpolarized Gas MRI. , 2011, , .		3
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