

Bastiaan Driehuys

List of Publications by Year in descending order

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papers

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411340

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32
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32
docs citations

32
times ranked

874
citing authors

#	ARTICLE	IF	CITATIONS
1	Pediatric ¹²⁹ Xe Gas Transfer MRI Feasibility and Applicability. Journal of Magnetic Resonance Imaging, 2022, 56, 1207-1219.	1.9	9
2	Persistent ¹²⁹ Xe MRI Pulmonary and CT Vascular Abnormalities in Symptomatic Individuals with Post-acute COVID-19 Syndrome. Radiology, 2022, 305, 466-476.	3.6	37
3	Regional Gas Exchange Measured by ¹²⁹ Xe Magnetic Resonance Imaging Before and After Combination Bronchodilators Treatment in Chronic Obstructive Pulmonary Disease. Journal of Magnetic Resonance Imaging, 2021, 54, 964-974.	1.9	12
4	Hyperpolarized ¹²⁹ Xe MRI and Spectroscopy of Gas-Exchange Abnormalities in Nonspecific Interstitial Pneumonia. Radiology, 2021, 301, 211-220.	3.6	11
5	Generalized Linear Binning to Compare Hyperpolarized ¹²⁹ Xe Ventilation Maps Derived from 3D Radial Gas Exchange Versus Dedicated Multislice Gradient Echo MRI. Academic Radiology, 2020, 27, e193-e203.	1.3	9
6	Illuminating Lung Inflammation at the Alveolar Capillary Interface. Journal of Magnetic Resonance Imaging, 2020, 51, 1677-1678.	1.9	0
7	A thermally polarized ¹²⁹ Xe phantom for quality assurance in multicenter hyperpolarized gas MRI studies. Magnetic Resonance in Medicine, 2019, 82, 1961-1968.	1.9	5
8	A protocol for quantifying cardiogenic oscillations in dynamic ¹²⁹ Xe gas exchange spectroscopy: The effects of idiopathic pulmonary fibrosis. NMR in Biomedicine, 2019, 32, e4029.	1.6	32
9	Hyperpolarized ¹²⁹ Xe gas transfer MRI: the transition from 1.5T to 3T. Magnetic Resonance in Medicine, 2018, 80, 2374-2383.	1.9	27
10	Establishing an accurate gas phase reference frequency to quantify ¹²⁹ Xe chemical shifts in vivo. Magnetic Resonance in Medicine, 2017, 77, 1438-1445.	1.9	10
11	Quantitative analysis of hyperpolarized ¹²⁹ Xe gas transfer MRI. Medical Physics, 2017, 44, 2415-2428.	1.6	65
12	Crossing the Chasm(s): Demonstrating the Clinical Value of Hyperpolarized Gas MRI. Academic Radiology, 2017, 24, 1-3.	1.3	11
13	Electron microscopic observations of Rb particles and pitting in ¹²⁹ Xe spin-exchange optical pumping cells. Journal of Applied Physics, 2017, 122, 024902.	1.1	5
14	Uncovering a third dissolved phase ¹²⁹ Xe resonance in the human lung: Quantifying spectroscopic features in healthy subjects and patients with idiopathic pulmonary fibrosis. Magnetic Resonance in Medicine, 2017, 78, 1306-1315.	1.9	21
15	Single-breath clinical imaging of hyperpolarized ¹²⁹ Xe in the airspaces, barrier, and red blood cells using an interleaved 3D radial Dixon acquisition. Magnetic Resonance in Medicine, 2016, 75, 1434-1443.	1.9	96
16	Optimizing 3D noncartesian gridding reconstruction for hyperpolarized ¹²⁹ Xe MRI focus on preclinical applications. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2015, 44, 190-202.	0.2	23
17	Dose and pulse sequence considerations for hyperpolarized ¹²⁹ Xe ventilation MRI. Magnetic Resonance Imaging, 2015, 33, 877-885.	1.0	52
18	Extending Semiautomatic Ventilation Defect Analysis for Hyperpolarized ¹²⁹ Xe Ventilation MRI. Academic Radiology, 2014, 21, 1530-1541.	1.3	73

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19	3D MRI of impaired hyperpolarized ¹²⁹ Xe uptake in a rat model of pulmonary fibrosis. NMR in Biomedicine, 2014, 27, 1502-1514.	1.6	36
20	Quantitative analysis of hyperpolarized ¹²⁹ Xe ventilation imaging in healthy volunteers and subjects with chronic obstructive pulmonary disease. NMR in Biomedicine, 2013, 26, 424-435.	1.6	76
21	Enabling hyperpolarized ¹²⁹ Xe MR spectroscopy and imaging of pulmonary gas transfer to the red blood cells in transgenic mice expressing human hemoglobin. Magnetic Resonance in Medicine, 2013, 70, 1192-1199.	1.9	24
22	Chronic Obstructive Pulmonary Disease: Safety and Tolerability of Hyperpolarized ¹²⁹ Xe MR Imaging in Healthy Volunteers and Patients. Radiology, 2012, 262, 279-289.	3.6	132
23	In Vivo MR Imaging of Pulmonary Perfusion and Gas Exchange in Rats via Continuous Extracorporeal Infusion of Hyperpolarized ¹²⁹ Xe. PLoS ONE, 2012, 7, e31306.	1.1	20
24	Diffusion-weighted hyperpolarized ¹²⁹ Xe MRI in healthy volunteers and subjects with chronic obstructive pulmonary disease. Magnetic Resonance in Medicine, 2011, 65, 1154-1165.	1.9	145
25	Quantitative analysis of hyperpolarized ³ He ventilation changes in mice challenged with methacholine. Magnetic Resonance in Medicine, 2010, 63, 658-666.	1.9	15
26	Hyperpolarized ¹²⁹ Xe MR Imaging of Alveolar Gas Uptake in Humans. PLoS ONE, 2010, 5, e12192.	1.1	136
27	Pulmonary Perfusion and Xenon Gas Exchange in Rats: MR Imaging with Intravenous Injection of Hyperpolarized ¹²⁹ Xe. Radiology, 2009, 252, 386-393.	3.6	55
28	Imaging alveolar-capillary gas transfer using hyperpolarized ¹²⁹ Xe MRI. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18278-18283.	3.3	210
29	Hyperpolarized ¹²⁹ Xe MRI for Functional Assessment of Radiation-Induced Lung Injury. International Journal of Radiation Oncology Biology Physics, 2005, 63, S460-S461.	0.4	7
30	Fundamental mechanisms of ³ He relaxation on glass. Chemical Physics Letters, 2003, 370, 261-267.	1.2	20
31	High-volume production of laser-polarized ¹²⁹ Xe. Applied Physics Letters, 1996, 69, 1668-1670.	1.5	319
32	Spin transfer between laser-polarized ¹²⁹ Xe nuclei and surface protons. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 184, 88-92.	0.9	42