

# Graham Norquay

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

883  
citations

361413

20  
h-index

552781

26  
g-index

27  
all docs

27  
docs citations

27  
times ranked

645  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental validation of the hyperpolarized <sup>129</sup> Xe chemical shift saturation recovery technique in healthy volunteers and subjects with interstitial lung disease. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 196-207.	3.0	76
2	Detection of early subclinical lung disease in children with cystic fibrosis by lung ventilation imaging with hyperpolarised gas MRI. <i>Thorax</i> , 2017, 72, 760-762.	5.6	70
3	Comparison of <sup>3</sup> He and <sup>129</sup> Xe MRI for evaluation of lung microstructure and ventilation at 1.5T. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 632-642.	3.4	61
4	Optimized production of hyperpolarized <sup>129</sup> Xe at 2 bars for <i>in vivo</i> lung magnetic resonance imaging. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	59
5	Feasibility of human lung ventilation imaging using highly polarized naturally abundant xenon and optimized three-dimensional steady-state free precession. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 346-352.	3.0	58
6	Hyperpolarised xenon magnetic resonance spectroscopy for the longitudinal assessment of changes in gas diffusion in IPF. <i>Thorax</i> , 2019, 74, 500-502.	5.6	53
7	Imaging Human Brain Perfusion with Inhaled Hyperpolarized <sup>129</sup> Xe MR Imaging. <i>Radiology</i> , 2018, 286, 659-665.	7.3	49
8	High resolution spectroscopy and chemical shift imaging of hyperpolarized <sup>129</sup> Xe dissolved in the human brain <i>in vivo</i> at 1.5 tesla. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 2227-2234.	3.0	46
9	Hyperpolarized <sup>129</sup> Xe gas lung MRI—SNR and $T_2^*$ comparisons at 1.5 T and 3 T. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1900-1904.	3.0	41
10	Relaxation and exchange dynamics of hyperpolarized <sup>129</sup> Xe in human blood. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 303-311.	3.0	38
11	3D diffusion-weighted <sup>129</sup> Xe MRI for whole lung morphometry. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2986-2995.	3.0	38
12	<sup>129</sup> Xe chemical shift in human blood and pulmonary blood oxygenation measurement in humans using hyperpolarized <sup>129</sup> Xe NMR. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1399-1408.	3.0	37
13	Reproducibility of quantitative indices of lung function and microstructure from <sup>129</sup> Xe chemical shift saturation recovery (CSSR) MR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 2107-2113.	3.0	33
14	Assessment of the influence of lung inflation state on the quantitative parameters derived from hyperpolarized gas lung ventilation MRI in healthy volunteers. <i>Journal of Applied Physiology</i> , 2019, 126, 183-192.	2.5	30
15	<i>In vivo</i> methods and applications of xenon-129 magnetic resonance. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2021, 122, 42-62.	7.5	30
16	Spatial Comparison of CT-Based Surrogates of Lung Ventilation With Hyperpolarized Helium-3 and Xenon-129 Gas MRI in Patients Undergoing Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, 1276-1286.	0.8	28
17	Dissolved <sup>129</sup> Xe lung MRI with four-echo 3D radial spectroscopic imaging: Quantification of regional gas transfer in idiopathic pulmonary fibrosis. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2622-2633.	3.0	28
18	Dissolved hyperpolarized xenon-129 MRI in human kidneys. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 262-270.	3.0	23

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19	Radiofrequency pulse design for the selective excitation of dissolved <sup>129</sup> Xe. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 21-30.	3.0	20
20	Assessment of brain perfusion using hyperpolarized <sup>129</sup> Xe MRI in a subject with established stroke. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 1002-1004.	3.4	20
21	Single breath-held acquisition of coregistered 3D <sup>129</sup> Xe lung ventilation and anatomical proton images of the human lung with compressed sensing. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 342-347.	3.0	14
22	Measuring <sup>129</sup> Xe transfer across the blood-brain barrier using MR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2939-2949.	3.0	11
23	Standalone portable xenon-129 hyperpolariser for multicentre clinical magnetic resonance imaging of the lungs. <i>British Journal of Radiology</i> , 2022, 95, 20210872.	2.2	10
24	Imaging Collateral Ventilation in Patients With Advanced Chronic Obstructive Pulmonary Disease: Relative Sensitivity of <sup>3</sup> He and <sup>129</sup> Xe MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 1195-1197.	3.4	5
25	MR properties of <sup>19</sup> F <sup>13</sup> C <sup>3</sup> F <sup>8</sup> gas in the lungs of healthy volunteers: and apparent diffusion coefficient at 1.5T and at 3T. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 1561-1570.	3.0	4