

Laura Maria Schreiber

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121
papers

3,623
citations

35
h-index

55
g-index

143
ext. papers

4,029
ext. citations

4.6
avg, IF

4.54
L-index

#	Paper	IF	Citations
121	Functional MRI of the lung using hyperpolarized 3-helium gas. <i>Journal of Magnetic Resonance Imaging</i> , 2004 , 20, 540-54	5.6	214
120	Regional blood flow, capillary permeability, and compartmental volumes: measurement with dynamic CT--initial experience. <i>Radiology</i> , 1999 , 210, 269-76	20.5	165
119	Quantification of regional intrapulmonary oxygen partial pressure evolution during apnea by (3)He MRI. <i>Journal of Magnetic Resonance</i> , 1999 , 141, 207-16	3	158
118	Au@MnO nanoflowers: hybrid nanocomposites for selective dual functionalization and imaging. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3976-80	16.4	128
117	Cerebral blood flow and cerebrovascular reserve capacity: estimation by dynamic magnetic resonance imaging. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1998 , 18, 1143-56	7.3	109
116	Dynamic contrast-enhanced myocardial perfusion imaging using saturation-prepared TrueFISP. <i>Journal of Magnetic Resonance Imaging</i> , 2002 , 16, 641-52	5.6	107
115	Analysis of intrapulmonary O(2) concentration by MR imaging of inhaled hyperpolarized helium-3. <i>Journal of Applied Physiology</i> , 1999 , 87, 2043-52	3.7	92
114	A multicenter measurement of magnetization transfer ratio in normal white matter. <i>Journal of Magnetic Resonance Imaging</i> , 1999 , 9, 441-6	5.6	89
113	Hyperpolarised 3He MRI versus HRCT in COPD and normal volunteers: PHIL trial. <i>European Respiratory Journal</i> , 2009 , 34, 1311-21	13.6	83
112	Assessment of a single-acquisition imaging sequence for oxygen-sensitive (3)He-MRI. <i>Magnetic Resonance in Medicine</i> , 2002 , 47, 105-14	4.4	79
111	Diffusion-weighted MRI of the lung with hyperpolarized helium-3: a study of reproducibility. <i>Journal of Magnetic Resonance Imaging</i> , 2005 , 21, 765-74	5.6	79
110	Influence of coronary flow profiles on bolus shape and quantitative myocardial perfusion MRI. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14, W73	6.9	78
109	Highly soluble multifunctional MnO nanoparticles for simultaneous optical and MRI imaging and cancer treatment using photodynamic therapy. <i>Journal of Materials Chemistry</i> , 2010 , 20, 8297		73
108	Quantitative MR temperature monitoring of high-intensity focused ultrasound therapy. <i>Magnetic Resonance Imaging</i> , 1999 , 17, 603-10	3.3	72
107	k-space filtering in 2D gradient-echo breath-hold hyperpolarized 3He MRI: spatial resolution and signal-to-noise ratio considerations. <i>Magnetic Resonance in Medicine</i> , 2002 , 47, 687-95	4.4	70
106	Dynamic (19)F-MRI of pulmonary ventilation using sulfur hexafluoride (SF(6)) gas. <i>Magnetic Resonance in Medicine</i> , 2001 , 45, 605-13	4.4	67
105	Lung ventilation- and perfusion-weighted Fourier decomposition magnetic resonance imaging: in vivo validation with hyperpolarized 3He and dynamic contrast-enhanced MRI. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 229-37	4.4	66

104	(3)He MRI in healthy volunteers: preliminary correlation with smoking history and lung volumes. <i>NMR in Biomedicine</i> , 2000 , 13, 182-9	4.4	66
103	(3)he-MRI-based measurements of intrapulmonary p(O ₂) and its time course during apnea in healthy volunteers: first results, reproducibility, and technical limitations. <i>NMR in Biomedicine</i> , 2000 , 13, 194-201	4.4	65
102	Pulmonary ventilation imaged by magnetic resonance: at the doorstep of clinical application. <i>European Respiratory Journal</i> , 2001 , 17, 1008-23	13.6	63
101	Multifunctional superparamagnetic MnO@SiO ₂ core/shell nanoparticles and their application for optical and magnetic resonance imaging. <i>Journal of Materials Chemistry</i> , 2012 , 22, 9253		55
100	Paired inspiratory/expiratory spiral CT and continuous respiration cine CT in the diagnosis of tracheal instability. <i>European Radiology</i> , 2001 , 11, 982-9	8	55
99	Functional evaluation of emphysema using diffusion-weighted 3Helium-magnetic resonance imaging, high-resolution computed tomography, and lung function tests. <i>Investigative Radiology</i> , 2004 , 39, 427-34	10.1	52
98	Pathogen-Mimicking MnO Nanoparticles for Selective Activation of the TLR9 Pathway and Imaging of Cancer Cells. <i>Advanced Functional Materials</i> , 2009 , 19, 3717-3725	15.6	51
97	Magnetic resonance imaging of paramagnetic tracers in porous media: Quantification of flow and transport parameters. <i>Water Resources Research</i> , 1997 , 33, 1461-1473	5.4	43
96	Phase separated Cu@Fe ₃ O ₄ heterodimer nanoparticles from organometallic reactants. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8605		42
95	¹⁹ F-MRI of perflubron for measurement of oxygen partial pressure in porcine lungs during partial liquid ventilation. <i>Magnetic Resonance in Medicine</i> , 2002 , 47, 82-9	4.4	42
94	Assessment of lung microstructure with magnetic resonance imaging of hyperpolarized Helium-3. <i>Respiratory Physiology and Neurobiology</i> , 2005 , 148, 23-42	2.8	41
93	Proton magnetic resonance imaging with para-hydrogen induced polarization. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 2346-52	3.6	39
92	Volumetry of ventilated airspaces by ³ He MRI: preliminary results. <i>Investigative Radiology</i> , 2001 , 36, 110-4	10.1	38
91	Clinical quantitative cardiac imaging for the assessment of myocardial ischaemia. <i>Nature Reviews Cardiology</i> , 2020 , 17, 427-450	14.8	37
90	Dynamic ventilation (³ He)-magnetic resonance imaging with lung motion correction: gas flow distribution analysis. <i>Investigative Radiology</i> , 2002 , 37, 126-34	10.1	37
89	No influence of magnetic fields on cell cycle progression using conditions relevant for patients during MRI. <i>Bioelectromagnetics</i> , 2003 , 24, 241-50	1.6	36
88	Hyperpolarized ¹ H long lived states originating from parahydrogen accessed by rf irradiation. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 17233-9	3.6	35
87	Assessment of tumor microcirculation with dynamic contrast-enhanced MRI in patients with esophageal cancer: initial experience. <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 27, 1296-301	5.6	35

86	Subsecond fluorine-19 MRI of the lung. <i>Magnetic Resonance in Medicine</i> , 2006 , 55, 948-51	4.4	35
85	Ultrasensitive 3He magnetometer for measurements of high magnetic fields. <i>European Physical Journal D</i> , 2014 , 68, 1	1.3	32
84	Oxygen-sensitive 3He-MRI in bronchiolitis obliterans after lung transplantation. <i>European Radiology</i> , 2008 , 18, 530-7	8	31
83	DNP in MRI: an in-bore approach at 1.5 T. <i>Journal of Magnetic Resonance</i> , 2012 , 215, 94-9	3	30
82	Quantification of myocardial blood flow and blood flow reserve in the presence of arterial dispersion: a simulation study. <i>Magnetic Resonance in Medicine</i> , 2002 , 47, 787-93	4.4	30
81	Trace determination of gadolinium in biomedical samples by diode laser-based multi-step resonance ionization mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2002 , 372, 759-65	4.4	30
80	A standardised method for measuring magnetisation transfer ratio on MR imagers from different manufacturers--the EuroMT sequence. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2005 , 18, 76-80	2.8	29
79	Respiratory luminal change of the pharynx and trachea in normal subjects and COPD patients: assessment by cine-MRI. <i>European Radiology</i> , 2004 , 14, 2188-97	8	27
78	A Mobile DNP Polarizer for Clinical Applications. <i>Applied Magnetic Resonance</i> , 2008 , 34, 321-330	0.8	25
77	Quantification of resting myocardial blood flow in a pig model of acute ischemia based on first-pass MRI. <i>Magnetic Resonance in Medicine</i> , 2005 , 53, 1223-7	4.4	25
76	Lack of mutagenic and co-mutagenic effects of magnetic fields during magnetic resonance imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2001 , 14, 779-88	5.6	25
75	Magnetic resonance imaging of dissolved hyperpolarized 129Xe using a membrane-based continuous flow system. <i>Journal of Magnetic Resonance</i> , 2009 , 201, 93-9	3	23
74	Comparison of magnetic resonance imaging of inhaled SF6 with respiratory gas analysis. <i>Magnetic Resonance Imaging</i> , 2009 , 27, 549-56	3.3	23
73	Controlling phase formation in solids: rational synthesis of phase separated Co@Fe2O3 heteroparticles and CoFe2O4 nanoparticles. <i>Chemical Communications</i> , 2011 , 47, 8898-900	5.8	21
72	Synthesis, characterization and functionalization of nearly mono-disperse copper ferrite CuxFe3-xO4 nanoparticles. <i>Journal of Materials Chemistry</i> , 2011 , 21, 6909		20
71	Comparison of three accelerated pulse sequences for semiquantitative myocardial perfusion imaging using sensitivity encoding incorporating temporal filtering (TSENSE). <i>Journal of Magnetic Resonance Imaging</i> , 2007 , 26, 569-79	5.6	19
70	Magnetic separation of encapsulated islet cells labeled with superparamagnetic iron oxide nanoparticles. <i>Xenotransplantation</i> , 2013 , 20, 219-26	2.8	18
69	Magnetic resonance imaging of (1)H long lived states derived from parahydrogen induced polarization in a clinical system. <i>Journal of Magnetic Resonance</i> , 2016 , 262, 68-72	3	17

68	Quantification of pulmonary blood flow (PBF): validation of perfusion MRI and nonlinear contrast agent (CA) dose correction with H(2)15O positron emission tomography (PET). <i>Magnetic Resonance in Medicine</i> , 2009 , 62, 476-87	4.4	17
67	MRI of tarantulas: morphological and perfusion imaging. <i>Magnetic Resonance Imaging</i> , 2007 , 25, 129-35	3.3	17
66	FAIR and dynamic susceptibility contrast-enhanced perfusion imaging in healthy subjects and stroke patients. <i>Journal of Magnetic Resonance Imaging</i> , 2002 , 16, 137-46	5.6	17
65	Design and evaluation of a 32-channel phased-array coil for lung imaging with hyperpolarized 3-helium. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 456-64	4.4	16
64	Flip angle considerations in (3)helium-MRI. <i>NMR in Biomedicine</i> , 2000 , 13, 190-3	4.4	16
63	Visualization of inert gas wash-out during high-frequency oscillatory ventilation using fluorine-19 MRI. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 1478-83	4.4	15
62	Heparin-polyinitroxides: synthesis and preliminary evaluation as cardiovascular EPR/MR imaging probes and extracellular space-targeted antioxidants. <i>European Journal of Medicinal Chemistry</i> , 2012 , 58, 265-71	6.8	14
61	CpG-DNA loaded multifunctional MnO nanoshuttles for TLR9-specific cellular cargo delivery, selective immune-activation and MRI. <i>Journal of Materials Chemistry</i> , 2012 , 22, 8826		14
60	A 20-channel receive-only mouse array coil for a 3 T clinical MRI system. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 584-95	4.4	14
59	Quantitative contrast-enhanced myocardial perfusion magnetic resonance imaging: simulation of bolus dispersion in constricted vessels. <i>Medical Physics</i> , 2009 , 36, 3099-106	4.4	13
58	Visualization of alveolar recruitment in a porcine model of unilateral lung lavage using 3He-MRI. <i>Acta Anaesthesiologica Scandinavica</i> , 2009 , 53, 1310-6	1.9	13
57	Contrast-enhanced magnetization transfer imaging: improvement of brain tumor conspicuity and delineation for radiosurgical target volume definition. <i>Radiotherapy and Oncology</i> , 1997 , 43, 261-7	5.3	13
56	Characterization of Myocardial Microstructure and Function in an Experimental Model of Isolated Subendocardial Damage. <i>Hypertension</i> , 2019 , 74, 295-304	8.5	12
55	Spin-labeled heparins as polarizing agents for dynamic nuclear polarization. <i>ChemPhysChem</i> , 2010 , 11, 3656-63	3.2	11
54	Controlling diffusion of 3He by buffer gases: a structural contrast agent in lung MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2006 , 24, 1291-7	5.6	11
53	MORT1/FADD is involved in liver regeneration. <i>World Journal of Gastroenterology</i> , 2005 , 11, 7248-53	5.6	11
52	Late improvement of regional wall motion after the subacute phase of myocardial infarction treated by acute PTCA in a 6-month follow-up. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2003 , 5, 487-95	6.9	11
51	Contrast agent bolus dispersion in a realistic coronary artery geometry: influence of outlet boundary conditions. <i>Annals of Biomedical Engineering</i> , 2014 , 42, 787-96	4.7	10

50	Computational fluid dynamics simulations of contrast agent bolus dispersion in a coronary bifurcation: impact on MRI-based quantification of myocardial perfusion. <i>Computational and Mathematical Methods in Medicine</i> , 2013 , 2013, 513187	2.8	10
49	Macroscopic tumor volume of malignant glioma determined by contrast-enhanced magnetic resonance imaging with and without magnetization transfer contrast. <i>Magnetic Resonance Imaging</i> , 1996 , 14, 1119-26	3.3	10
48	Design and Evaluation of a Novel Symmetric Multichannel Transmit/Receive Coil Array for Cardiac MRI in Pigs at 7 T. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019 , 67, 3928-3945	4.1	8
47	Three-dimensional mapping of the B1 field using an optimized phase-based method: application to hyperpolarized ³ He in lungs. <i>Magnetic Resonance in Medicine</i> , 2011 , 65, 1166-72	4.4	8
46	Ventilation-perfusion ratio in perflubron during partial liquid ventilation. <i>Anesthesia and Analgesia</i> , 2010 , 110, 1661-8	3.9	8
45	Intrapulmonary ³ He gas distribution depending on bolus size and temporal bolus placement. <i>Investigative Radiology</i> , 2008 , 43, 439-46	10.1	8
44	Quantitative myocardial perfusion imaging using different autocalibrated parallel acquisition techniques. <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 28, 51-9	5.6	8
43	Measurements of alveolar pO ₂ using ¹⁹ F-MRI in partial liquid ventilation. <i>Investigative Radiology</i> , 2003 , 38, 635-41	10.1	8
42	Improved visualization of breast lesions with gadolinium-enhanced magnetization transfer MR imaging. <i>Magnetic Resonance in Medicine</i> , 1996 , 35, 861-9	4.4	8
41	Spin echo based cardiac diffusion imaging at 7T: An ex vivo study of the porcine heart at 7T and 3T. <i>PLoS ONE</i> , 2019 , 14, e0213994	3.7	7
40	Resting myocardial blood flow quantification using contrast-enhanced magnetic resonance imaging in the presence of stenosis: A computational fluid dynamics study. <i>Medical Physics</i> , 2015 , 42, 4375-84	4.4	7
39	Quantitative myocardial perfusion magnetic resonance imaging: the impact of pulsatile flow on contrast agent bolus dispersion. <i>Physics in Medicine and Biology</i> , 2011 , 56, 5167-85	3.8	7
38	Two-dimensional and three-dimensional oxygen mapping by ³ He-MRI validation in a lung phantom. <i>European Radiology</i> , 2005 , 15, 1915-22	8	7
37	Sensitivity analysis for interpretation of machine learning based segmentation models in cardiac MRI. <i>BMC Medical Imaging</i> , 2021 , 21, 27	2.9	7
36	Increased basic fibroblast growth factor release and proliferation in xenotransplanted squamous cell carcinoma after combined irradiation/anti-vascular endothelial growth factor treatment. <i>Oncology Reports</i> , 2012 , 27, 1573-9	3.5	6
35	Local transient myocardial liposomal gene transfer of inducible nitric oxide synthase does not aggravate myocardial function and fibrosis and leads to moderate neovascularization in chronic myocardial ischemia in pigs. <i>Microcirculation</i> , 2010 , 17, 69-78	2.9	6
34	Measurement of gas transport kinetics in high-frequency oscillatory ventilation (HFOV) of the lung using hyperpolarized (³)He magnetic resonance imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 32, 887-94	5.6	6
33	Area at risk and viability after myocardial ischemia and reperfusion can be determined by contrast-enhanced cardiac magnetic resonance imaging. <i>European Surgical Research</i> , 2009 , 43, 13-23	1.1	5

32	Small animal tumour imaging with MRI and the ECAT EXACT scanner: application of partial volume correction and comparison with microPET data. <i>Nuclear Medicine Communications</i> , 2010 , 31, 294-300	1.6	5
31	B shimming of the human heart at 7T. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 182-196	4.4	5
30	Flip-angle measurement by magnetization inversion: Calibration of magnetization nutation angle in hyperpolarized (3) He magnetic resonance imaging lung experiments. <i>Magnetic Resonance in Medicine</i> , 2011 , 65, 399-408	4.4	4
29	Analysis of Coronary Contrast Agent Transport in Bolus-Based Quantitative Myocardial Perfusion MRI Measurements with Computational Fluid Dynamics Simulations. <i>Lecture Notes in Computer Science</i> , 2017 , 369-380	0.9	4
28	Longitudinal assessment of tissue properties and cardiac diffusion metrics of the ex vivo porcine heart at 7 T: Impact of continuous tissue fixation using formalin. <i>NMR in Biomedicine</i> , 2020 , 33, e4298	4.4	3
27	A Novel Mono-surface Antisymmetric 8Tx/16Rx Coil Array for Parallel Transmit Cardiac MRI in Pigs at 7T. <i>Scientific Reports</i> , 2020 , 10, 3117	4.9	3
26	Application unit for the administration of contrast gases for pulmonary magnetic resonance imaging: optimization of ventilation distribution for (3) He-MRI. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 884-93	4.4	3
25	Measurement of anesthetic uptake kinetics in the brain using (19)F MRI and cross-correlation analysis after pulsed application. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2014 , 27, 107-11	2.8	3
24	Comparison of the quantitative first pass myocardial perfusion MRI with and without prospective slice tracking: comparison between breath-hold and free-breathing condition. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 1461-70	4.4	3
23	Design and Implementation of Two 16-Element Antisymmetric Transceiver Coil Arrays for Parallel Transmission Human Cardiac MRI at 7 T. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 69, 3540-3557	4.1	3
22	Characterization and optimization of the visualization performance of continuous flow overhauser DNP hyperpolarized water MRI: Inversion recovery approach. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 985-96	4.4	2
21	Usefulness of MRI to differentiate between temporary and long-term coronary artery occlusion in a minimally invasive model of experimental myocardial infarction. <i>CardioVascular and Interventional Radiology</i> , 2009 , 32, 1033-41	2.7	2
20	Exploring Ensemble Applications for Multi-sequence Myocardial Pathology Segmentation. <i>Lecture Notes in Computer Science</i> , 2020 , 60-67	0.9	2
19	A Deep Learning Based Cardiac Cine Segmentation Framework for Clinicians ¶Transfer Learning Application to 7T		2
18	Deep learning-based cardiac cine segmentation: Transfer learning application to 7T ultrahigh-field MRI. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 2179-2191	4.4	2
17	On the way to routine cardiac MRI at 7 Tesla - a pilot study on consecutive 84 examinations. <i>PLoS ONE</i> , 2021 , 16, e0252797	3.7	2
16	Global optimization of default phases for parallel transmit coils for ultra-high-field cardiac MRI. <i>PLoS ONE</i> , 2021 , 16, e0255341	3.7	2
15	Development of a Computational Fluid Dynamics (CFD)-Model of the Arterial Epicardial Vasculature. <i>Lecture Notes in Computer Science</i> , 2019 , 219-229	0.9	1

14	Gene therapy with iNOS enhances regional contractility and reduces delayed contrast enhancement in a model of postischemic congestive heart failure. <i>Clinical Hemorheology and Microcirculation</i> , 2011 , 49, 271-8	2.5	1
13	Protective Artificial Lung Ventilation: Impact of an Endotracheal Tube on the Flow in a Generic Trachea. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2010 , 505-512	0.3	1
12	Magnetic Resonance Imaging and Computational Fluid Dynamics of High Frequency Oscillatory Ventilation (HFOV). <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2011 , 107-128	0.3	1
11	Influence of contrast agent dispersion on bolus-based MRI myocardial perfusion measurements: A computational fluid dynamics study. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 467-483	4.4	1
10	Unlocking the PACS DICOM Domain for its Use in Clinical Research Data Warehouses. <i>Journal of Digital Imaging</i> , 2020 , 33, 1016-1025	5.3	1
9	A Novel Antisymmetric 16-Element Transceiver Dipole Antenna Array for Parallel Transmit Cardiac MRI in Pigs at 7T.. <i>NMR in Biomedicine</i> , 2022 , e4726	4.4	0
8	Assessment of Myocardial Microstructure in a Murine Model of Obesity-Related Cardiac Dysfunction by Diffusion Tensor Magnetic Resonance Imaging at 7T.. <i>Frontiers in Cardiovascular Medicine</i> , 2022 , 9, 839714	5.4	0
7	Functionalized Magnetic Nanoparticles for Selective Targeting of Cells. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1241, 1		
6	How do different surface modification strategies Affect the properties of MnO nanoparticles for biomedical applications? Comparison of PEGylated and SiO ₂ -coated MnO nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1355, 1		
5	Improvement of solubility and biocompatibility of MnO based nanoparticles in aqueous solutions. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1346, 1		
4	Validation of cardiac diffusion tensor imaging sequences: A multi-centre test-retest phantom study.. <i>NMR in Biomedicine</i> , 2021 , e4685	4.4	
3	Myocardial Infarction After High-Dose Catecholamine Application-A Case Report From an Experimental Imaging Study. <i>Frontiers in Cardiovascular Medicine</i> , 2020 , 7, 580296	5.4	
2	Dynamic contrast-enhanced magnetic resonance imaging for monitoring neovascularization during bone regeneration-a randomized in vivo study in rabbits. <i>Clinical Oral Investigations</i> , 2021 , 25, 5843-5854 ^{4.2}		
1	High Resolution Simulation of B Field Conditions in the Human Heart from Segmented CT Images.. <i>NMR in Biomedicine</i> , 2022 , e4739	4.4	