Freddy Stahlberg

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Noninvasive MRI Thermometry with the Proton Resonance Frequency (PRF) Method:In Vivo Results in Human Muscle. Magnetic Resonance in Medicine, 1995, 33, 74-81.	1.9	548
2	Quantification of microscopic diffusion anisotropy disentangles effects of orientation dispersion from microstructure: Applications in healthy volunteers and in brain tumors. NeuroImage, 2015, 104, 241-252.	2.1	216
3	7â€T MRâ€"from research to clinical applications?. NMR in Biomedicine, 2012, 25, 695-716.	1.6	168
4	Assessment of regional cerebral blood flow by dynamic susceptibility contrast MRI using different deconvolution techniques. Magnetic Resonance in Medicine, 2000, 43, 691-700.	1.9	152
5	^{99m}Tc-Labeled Superparamagnetic Iron Oxide Nanoparticles for Multimodality SPECT/MRI of Sentinel Lymph Nodes. Journal of Nuclear Medicine, 2012, 53, 459-463.	2.8	150
6	The importance of axonal undulation in diffusion MR measurements: a Monte Carlo simulation study. NMR in Biomedicine, 2012, 25, 795-805.	1.6	142
7	Noninvasive mapping of water diffusional exchange in the human brain using filterâ€exchange imaging. Magnetic Resonance in Medicine, 2013, 69, 1572-1580.	1.9	142
8	The link between diffusion MRI and tumor heterogeneity: Mapping cell eccentricity and density by diffusional variance decomposition (DIVIDE). NeuroImage, 2016, 142, 522-532.	2.1	141
9	Quantification of aortic regurgitation by magnetic resonance velocity mapping. American Heart Journal, 1993, 125, 1081-1090.	1.2	132
10	The role of tissue microstructure and water exchange in biophysical modelling of diffusion in white matter. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2013, 26, 345-370.	1.1	123
11	IS AQUEDUCTAL STROKE VOLUME, MEASURED WITH CINE PHASE-CONTRAST MAGNETIC RESONANCE IMAGING SCANS USEFUL IN PREDICTING OUTCOME OF SHUNT SURGERY IN SUSPECTED NORMAL PRESSURE HYDROCEPHALUS?. Neurosurgery, 2007, 60, 124-130.	0.6	113
12	Total heart volume variation throughout the cardiac cycle in humans. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H243-H250.	1.5	106
13	Apparent exchange rate mapping with diffusion MRI. Magnetic Resonance in Medicine, 2011, 66, 356-365.	1.9	102
14	Absolute quantification of perfusion using dynamic susceptibility contrast MRI: pitfalls and possibilities. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2010, 23, 1-21.	1.1	98
15	Quantification and visualization of cardiovascular 4D velocity mapping accelerated with parallel imaging or k-t BLAST: head to head comparison and validation at 1.5 T and 3 T. Journal of Cardiovascular Magnetic Resonance, 2011, 13, 55.	1.6	91
16	On the effects of a varied diffusion time in vivo: is the diffusion in white matter restricted?. Magnetic Resonance Imaging, 2009, 27, 176-187.	1.0	88
17	Cardiac output and cardiac index measured with cardiovascular magnetic resonance in healthy subjects, elite athletes and patients with congestive heart failure. Journal of Cardiovascular Magnetic Resonance, 2012, 14, 51.	1.6	77
18	Quantification of microcirculatory parameters by joint analysis of flowâ€compensated and nonâ€flowâ€compensated intravoxel incoherent motion (IVIM) data. NMR in Biomedicine, 2016, 29, 640-649.	1.6	72

#	Article	IF	Citations
19	Mitral and aortic valvular flow: Quantification with MR phase mapping. Journal of Magnetic Resonance Imaging, 1992, 2, 295-302.	1.9	71
20	Optimal experimental design for filter exchange imaging: Apparent exchange rate measurements in the healthy brain and in intracranial tumors. Magnetic Resonance in Medicine, 2017, 77, 1104-1114.	1.9	67
21	Tensor-valued diffusion encoding for diffusional variance decomposition (DIVIDE): Technical feasibility in clinical MRI systems. PLoS ONE, 2019, 14, e0214238.	1.1	67
22	Coronary Sinus Flow Measurement by Means of Velocity-encoded Cine MR Imaging: Validation by Using Flow Probes in Dogs. Radiology, 2000, 217, 487-493.	3.6	65
23	Denoising of complex MRI data by wavelet-domain filtering: Application to high-b-value diffusion-weighted imaging. Magnetic Resonance in Medicine, 2006, 56, 1114-1120.	1.9	62
24	Variability in diffusion kurtosis imaging: Impact on study design, statistical power and interpretation. NeuroImage, 2013, 76, 145-154.	2.1	62
25	Left-to-Right Cardiac Shunts: Comparison of Measurements Obtained with MR Velocity Mapping and with Radionuclide Angiography. Radiology, 1999, 211, 453-458.	3.6	61
26	Absolute quantification of cerebral blood flow in normal volunteers: Correlation between Xeâ€•133 SPECT and dynamic susceptibility contrast MRI. Journal of Magnetic Resonance Imaging, 2007, 26, 913-920.	1.9	59
27	Accuracy and precision of MR velocity mapping in measurement of stenotic cross-sectional area, flow rate, and pressure gradient. Journal of Magnetic Resonance Imaging, 1993, 3, 433-437.	1.9	57
28	A method for MR quantification of flow velocities in blood and CSF using interleaved gradient-echo pulse sequences. Magnetic Resonance Imaging, 1989, 7, 655-667.	1.0	56
29	Image artifacts due to a time-varying contrast medium concentration in 3D contrast-enhanced MRA. Journal of Magnetic Resonance Imaging, 1999, 10, 919-928.	1.9	54
30	Aspects on the accuracy of cerebral perfusion parameters obtained by dynamic susceptibility contrast MRI: a simulation study. Magnetic Resonance Imaging, 2004, 22, 789-798.	1.0	50
31	MRI thermometry in phantoms by use of the proton resonance frequency shift method: application to interstitial laser thermotherapy. Physics in Medicine and Biology, 1998, 43, 2597-2613.	1.6	48
32	Magnetic Resonance Imaging of Valvular Heart Disease. Journal of Magnetic Resonance Imaging, 1999, 10, 627-638.	1.9	47
33	Collateral flow in coarctation of the aorta with magnetic resonance velocity mapping: Correlation to morphological imaging of collateral vessels. Journal of Magnetic Resonance Imaging, 2002, 15, 39-46.	1.9	46
34	Vasodilation with felodipine in chronic asymptomatic aortic regurgitation. American Heart Journal, 2000, 139, 667-674.	1.2	45
35	Theoretical and experimental evaluation of phase-dispersion effects caused by brain motion in diffusion and perfusion MR imaging. Journal of Magnetic Resonance Imaging, 1996, 6, 348-355.	1.9	43
36	Accuracy of segmented MR velocity mapping to measure small vessel pulsatile flow in a phantom simulating cardiac motion. Journal of Magnetic Resonance Imaging, 2001, 13, 722-728.	1.9	43

#	Article	IF	Citations
37	In vivo visualization of displacement-distribution-derived parameters in q-space imaging. Magnetic Resonance Imaging, 2008, 26, 77-87.	1.0	43
38	Absolute quantification of cerebral blood flow: correlation between dynamic susceptibility contrast MRI and model-free arterial spin labeling. Magnetic Resonance Imaging, 2010, 28, 1-7.	1.0	42
39	Accuracy of q-Space Related Parameters in MRI: Simulations and Phantom Measurements. IEEE Transactions on Medical Imaging, 2007, 26, 1437-1447.	5.4	39
40	Comparison between retrospective gating and ECG triggering in magnetic resonance velocity mapping. Magnetic Resonance Imaging, 1993, 11, 533-537.	1.0	35
41	Correlation between arterial blood volume obtained by arterial spin labelling and cerebral blood volume in intracranial tumours. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2011, 24, 211-223.	1.1	35
42	Effects of restricted diffusion in a biological phantom: a q-space diffusion MRI study of asparagus stems at a 3T clinical scanner. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2007, 20, 213-222.	1.1	34
43	Denoising of arterial spin labeling data: wavelet-domain filtering compared with Gaussian smoothing. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2010, 23, 125-137.	1.1	33
44	Comparison of contrast agents with high molarity and with weak protein binding in cerebral perfusion imaging at 3 T. Journal of Magnetic Resonance Imaging, 2005, 22, 597-604.	1.9	32
45	Quantitative diffusion coefficient maps using fast spin-echo MRI. Magnetic Resonance Imaging, 1998, 16, 877-886.	1.0	31
46	High-resolution diffusion imaging using phase-corrected segmented echo-planar imaging. Magnetic Resonance Imaging, 2000, 18, 649-657.	1.0	31
47	Calculation of cerebral perfusion parameters using regional arterial input functions identified by factor analysis. Journal of Magnetic Resonance Imaging, 2006, 23, 444-453.	1.9	28
48	Variable velocity encoding in a threeâ€dimensional, threeâ€directional phase contrast sequence: Evaluation in phantom and volunteers. Journal of Magnetic Resonance Imaging, 2012, 36, 1450-1459.	1.9	28
49	(68)Ga-labeled superparamagnetic iron oxide nanoparticles (SPIONs) for multi-modality PET/MR/Cherenkov luminescence imaging of sentinel lymph nodes. American Journal of Nuclear Medicine and Molecular Imaging, 2013, 4, 60-9.	1.0	28
50	Regional Cerebral Blood Flow Distributions in Normal Volunteers: Dynamic Susceptibility Contrast MRI Compared with 99mTc-HMPAO SPECT. Journal of Computer Assisted Tomography, 2000, 24, 526-530.	0.5	26
51	Quantifying coronary sinus flow and global LV perfusion at 3T. BMC Medical Imaging, 2009, 9, 9.	1.4	26
52	Dynamic susceptibility contrast MRI with a prebolus contrast agent administration design for improved absolute quantification of perfusion. Magnetic Resonance in Medicine, 2014, 72, 996-1006.	1.9	26
53	Functional evaluation of extracardiac ventriculopulmonary conduits and of the right ventricle with magnetic resonance imaging and velocity mapping. American Journal of Cardiology, 1999, 83, 926-932.	0.7	24
54	Submaximal adenosineâ€induced coronary hyperaemia with 12Âh caffeine abstinence: implications for clinical adenosine perfusion imaging tests. Clinical Physiology and Functional Imaging, 2015, 35, 49-56.	0.5	24

#	Article	IF	Citations
55	Intravoxel incoherent motion (IVIM) imaging at different magnetic field strengths: What is feasible?. Magnetic Resonance Imaging, 2014, 32, 1247-1258.	1.0	23
56	Investigation of cerebrospinal fluid flow in the cerebral aqueduct using high-resolution phase contrast measurements at 7T MRI. Acta Radiologica, 2018, 59, 988-996.	0.5	20
57	A two-compartment gel phantom for optimization and quality assurance in clinical BOLD fMRI. Magnetic Resonance Imaging, 2008, 26, 279-286.	1.0	19
58	Partial volume correction of brain perfusion estimates using the inherent signal data of time-resolved arterial spin labeling. NMR in Biomedicine, 2014, 27, 1112-1122.	1.6	17
59	Combined diffusion weighting and CSF suppression in functional MRI. NMR in Biomedicine, 2002, 15, 235-240.	1.6	15
60	Estimation of diffusion, perfusion and fractional volumes using a multi-compartment relaxation-compensated intravoxel incoherent motion (IVIM) signal model. European Journal of Radiology Open, 2019, 6, 198-205.	0.7	15
61	Quantitative Study of Flow Dependence in NMR Images at Low Flow Velocities. Journal of Computer Assisted Tomography, 1986, 10, 1006-1015.	0.5	11
62	Reduction of arterial partial volume effects for improved absolute quantification of DSCâ€MRI perfusion estimates: Comparison between tail scaling and prebolus administration. Journal of Magnetic Resonance Imaging, 2015, 41, 903-908.	1.9	9
63	Assessment of MRI contrast agent concentration by quantitative susceptibility mapping (QSM): application to estimation of cerebral blood volume during steady state. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2017, 30, 555-566.	1.1	9
64	Effects of gadolinium contrast agent on aortic blood flow and myocardial strain measurements by phase-contrast cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2010, 12, 70.	1.6	8
65	Effects of blood Î”R2* non-linearity on absolute perfusion quantification using DSC-MRI: Comparison with Xe-133 SPECT. Magnetic Resonance Imaging, 2013, 31, 651-655.	1.0	7
66	Absolute quantification of perfusion by dynamic susceptibility contrast MRI using Bookend and VASO steady-state CBV calibration: a comparison with pseudo-continuous ASL. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2014, 27, 487-499.	1.1	7
67	A linear mixed perfusion model for tissue partial volume correction of perfusion estimates in dynamic susceptibility contrast MRI: Impact on absolute quantification, repeatability, and agreement with pseudo-continuous arterial spin labeling. Magnetic Resonance in Medicine, 2017, 77, 2203-2214.	1.9	7
68	Measurement of vascular water transport in human subjects using timeâ€resolved pulsed arterial spin labelling. NMR in Biomedicine, 2015, 28, 1059-1068.	1.6	6
69	Development of a Hybrid Nanoprobe for Triple-Modality MR/SPECT/Optical Fluorescence Imaging. Diagnostics, 2014, 4, 13-26.	1.3	5
70	Volumetric velocity measurements in restricted geometries using spiral sampling: a phantom study. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2015, 28, 103-118.	1.1	5
71	Dynamic susceptibility contrast perfusion MRI using phase-based venous output functions: comparison with pseudo-continuous arterial spin labelling and assessment of contrast agent concentration in large veins. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 823-831.	1.1	4
72	Quantification of normal cerebral oxygen extraction and oxygen metabolism by phaseâ€based <scp>MRI</scp> susceptometry: evaluation of repeatability using two different imaging protocols. Clinical Physiology and Functional Imaging, 2017, 37, 211-220.	0.5	4

#	Article	IF	Citations
73	Dynamic contrast-enhanced QSM for perfusion imaging: a systematic comparison of Î"R2*- and QSM-based contrast agent concentration time curves in blood and tissue. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 663-676.	1.1	4
74	A theoretical study of amplitude modulation and time shifting in quantitative MR measurements of motion in brain tissue. Magnetic Resonance Imaging, 1993, 11, 739-747.	1.0	3
75	Use of k-space segmentation in MR velocity mapping for rapid quantification of CSF flow. Journal of Magnetic Resonance Imaging, 1997, 7, 972-978.	1.9	3
76	Assessment of spatial BOLD sensitivity variations in fMRI using gradient-echo field maps. Magnetic Resonance Imaging, 2010, 28, 947-956.	1.0	3
77	Cerebral perfusion information obtained by dynamic contrastâ€enhanced phaseâ€shift magnetic resonance imaging: comparison with modelâ€free arterial spin labelling. Clinical Physiology and Functional Imaging, 2010, 30, 375-379.	0.5	3
78	Superparamagnetic iron oxide nanoparticles as a multimodal contrast agent for up to five imaging modalities. Clinical and Translational Imaging, 2015, 3, 247-249.	1.1	3
79	Dynamic Susceptibility Contrast MRI at 7 T: Tail-Scaling Analysis and Inferences about Field Strength Dependence. Tomography, 2017, 3, 74-78.	0.8	3
80	Improved receiver coil for upper thoracic spine imaging in a vertical magnetic field. Journal of Magnetic Resonance Imaging, 1992, 2, 191-195.	1.9	2
81	Optimal experimental design for filter exchange imaging: Apparent exchange rate measurements in the healthy brain and in intracranial tumors. Magnetic Resonance in Medicine, 2017, 77, C1-C1.	1.9	2
82	Magnetic Resonance Imaging of Valvular Heart Disease. Journal of Magnetic Resonance Imaging, 1999, 10, 627-638.	1.9	2
83	Change in Cerebral Perfusion Detected by Dynamic Susceptibility Contrast Magnetic Resonance Imaging: Normal Volunteers Examined During Normal Breathing and Hyperventilation. , 2009, , .		0
84	Effects of red blood cells with reduced deformability on cerebral blood flow and vascular water transport: measurements in rats using time-resolved pulsed arterial spin labelling at 9.4â€‰T. European Radiology Experimental, 2021, 5, 53.	1.7	0