Pascal Spincemaille

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122 papers	4,500 citations	33 h-index	65 g-index
140 ext. papers	5,455 ext. citations	4.6 avg, IF	5.4 L-index

#	Paper	IF	Citations
122	Quantitative susceptibility map reconstruction from MR phase data using bayesian regularization: validation and application to brain imaging. *Magnetic Resonance in Medicine*, **2010**, 63, 194-206	4.4	457
121	Calculation of susceptibility through multiple orientation sampling (COSMOS): a method for conditioning the inverse problem from measured magnetic field map to susceptibility source image in MRI. *Magnetic Resonance in Medicine*, **2009**, 61, 196-204	4.4	312
120	Morphology enabled dipole inversion for quantitative susceptibility mapping using structural consistency between the magnitude image and the susceptibility map. *NeuroImage*, **2012**, 59, 2560-8	7.9	303
119	A novel background field removal method for MRI using projection onto dipole fields (PDF). *NMR in Biomedicine*, **2011**, 24, 1129-36	4.4	256
118	Morphology enabled dipole inversion (MEDI) from a single-angle acquisition: comparison with COSMOS in human brain imaging. *Magnetic Resonance in Medicine*, **2011**, 66, 777-83	4.4	236
117	Nonlinear formulation of the magnetic field to source relationship for robust quantitative susceptibility mapping. *Magnetic Resonance in Medicine*, **2013**, 69, 467-76	4.4	229
116	Nonlinear regularization for per voxel estimation of magnetic susceptibility distributions from MRI field maps. *IEEE Transactions on Medical Imaging*, **2010**, 29, 273-81	11.7	159
115	Background field removal by solving the Laplacian boundary value problem. *NMR in Biomedicine*, **2014**, 27, 312-9	4.4	136
114	Cerebral microbleeds: burden assessment by using quantitative susceptibility mapping. *Radiology*, **2012**, 262, 269-78	20.5	136
113	Clinical quantitative susceptibility mapping (QSM): Biometal imaging and its emerging roles in patient care. *Journal of Magnetic Resonance Imaging*, **2017**, 46, 951-971	5.6	128
112	Respiratory and cardiac self-gated free-breathing cardiac CINE imaging with multiecho 3D hybrid radial SSFP acquisition. *Magnetic Resonance in Medicine*, **2010**, 63, 1230-7	4.4	98
111	Quantitative mapping of cerebral metabolic rate of oxygen (CMRO2) using quantitative susceptibility mapping (QSM). *Magnetic Resonance in Medicine*, **2015**, 74, 945-52	4.4	92
110	Reducing the object orientation dependence of susceptibility effects in gradient echo MRI through quantitative susceptibility mapping. *Magnetic Resonance in Medicine*, **2012**, 68, 1563-9	4.4	86
109	Flow compensated quantitative susceptibility mapping for venous oxygenation imaging. *Magnetic Resonance in Medicine*, **2014**, 72, 438-45	4.4	84
108	Preconditioned total field inversion (TFI) method for quantitative susceptibility mapping. *Magnetic Resonance in Medicine*, **2017**, 78, 303-315	4.4	75
107	MEDI+0: Morphology enabled dipole inversion with automatic uniform cerebrospinal fluid zero reference for quantitative susceptibility mapping. *Magnetic Resonance in Medicine*, **2018**, 79, 2795-2803	4.4	73
106	Accuracy of the morphology enabled dipole inversion (MEDI) algorithm for quantitative susceptibility mapping in MRI. *IEEE Transactions on Medical Imaging*, **2012**, 31, 816-24	11.7	73

105	Reproducibility of quantitative susceptibility mapping in the brain at two field strengths from two vendors. *Journal of Magnetic Resonance Imaging*, **2015**, 42, 1592-600	5.6	69
104	Simultaneous phase unwrapping and removal of chemical shift (SPURS) using graph cuts: application in quantitative susceptibility mapping. *IEEE Transactions on Medical Imaging*, **2015**, 34, 531-40	11.7	62
103	Magnetic susceptibility anisotropy: cylindrical symmetry from macroscopically ordered anisotropic molecules and accuracy of MRI measurements using few orientations. *NeuroImage*, **2013**, 70, 363-76	7.9	62
102	In vivo quantification of contrast agent concentration using the induced magnetic field for time-resolved arterial input function measurement with MRI. *Medical Physics*, **2008**, 35, 5328-39	4.4	61
101	Age and sex related differences in subcortical brain iron concentrations among healthy adults. *NeuroImage*, **2015**, 122, 385-98	7.9	57
100	Unambiguous identification of superparamagnetic iron oxide particles through quantitative susceptibility mapping of the nonlinear response to magnetic fields. *Magnetic Resonance Imaging*, **2010**, 28, 1383-9	3.3	49
99	T2 prep three-dimensional spiral imaging with efficient whole brain coverage for myelin water quantification at 1.5 tesla. *Magnetic Resonance in Medicine*, **2012**, 67, 614-21	4.4	48
98	A fast navigator-gated 3D sequence for delayed enhancement MRI of the myocardium: comparison with breathhold 2D imaging. *Journal of Magnetic Resonance Imaging*, **2008**, 27, 802-8	5.6	43
97	Bone quantitative susceptibility mapping using a chemical species-specific R2* signal model with ultrashort and conventional echo data. *Magnetic Resonance in Medicine*, **2018**, 79, 121-128	4.4	41
96	Effective motion-sensitizing magnetization preparation for black blood magnetic resonance imaging of the heart. *Journal of Magnetic Resonance Imaging*, **2008**, 28, 1092-100	5.6	41
95	Joint estimation of chemical shift and quantitative susceptibility mapping (chemical QSM). *Magnetic Resonance in Medicine*, **2015**, 73, 2100-10	4.4	40
94	Noise Effects in Various Quantitative Susceptibility Mapping Methods. *IEEE Transactions on Biomedical Engineering*, **2013**, 60, 3441-8	5	39
93	Multiple sclerosis lesion geometry in quantitative susceptibility mapping (QSM) and phase imaging. *Journal of Magnetic Resonance Imaging*, **2015**, 42, 224-9	5.6	38
92	Fast 3D contrast enhanced MRI of the liver using temporal resolution acceleration with constrained evolution reconstruction. *Magnetic Resonance in Medicine*, **2013**, 69, 370-81	4.4	37
91	Kalman filtering for real-time navigator processing. *Magnetic Resonance in Medicine*, **2008**, 60, 158-68	4.4	35
90	Feasibility and reproducibility of whole brain myelin water mapping in 4 minutes using fast acquisition with spiral trajectory and adiabatic T2prep (FAST-T2) at 3T. *Magnetic Resonance in Medicine*, **2016**, 76, 456-65	4.4	35
89	Cerebral metabolic rate of oxygen (CMRO) mapping with hyperventilation challenge using quantitative susceptibility mapping (QSM). *Magnetic Resonance in Medicine*, **2017**, 77, 1762-1773	4.4	33
88	Susceptibility underestimation in a high-susceptibility phantom: Dependence on imaging resolution, magnitude contrast, and other parameters. *Magnetic Resonance in Medicine*, **2017**, 78, 1080-1086	4.4	32

87	Cerebral metabolic rate of oxygen (CMRO) mapping by combining quantitative susceptibility mapping (QSM) and quantitative blood oxygenation level-dependent imaging (qBOLD). *Magnetic Resonance in Medicine*, **2018**, 80, 1595-1604	4.4	31
86	3D texture analyses within the substantia nigra of Parkinson disease patients on quantitative susceptibility maps and R2 maps. *NeuroImage*, **2019**, 188, 465-472	7.9	31
85	Improved hepatic arterial phase MRI with 3-second temporal resolution. *Journal of Magnetic Resonance Imaging*, **2013**, 37, 1129-36	5.6	29
84	Three-dimensional cine imaging using variable-density spiral trajectories and SSFP with application to coronary artery angiography. *Magnetic Resonance in Medicine*, **2007**, 58, 535-43	4.4	27
83	Cardiac fat navigator-gated steady-state free precession 3D magnetic resonance angiography of coronary arteries. *Magnetic Resonance in Medicine*, **2006**, 56, 210-5	4.4	26
82	Direct coronary motion extraction from a 2D fat image navigator for prospectively gated coronary MR angiography. *Magnetic Resonance in Medicine*, **2014**, 71, 599-607	4.4	25
81	Z intensity-weighted position self-respiratory gating method for free-breathing 3D cardiac CINE imaging. *Magnetic Resonance Imaging*, **2011**, 29, 861-8	3.3	25
80	An iterative spherical mean value method for background field removal in MRI. *Magnetic Resonance in Medicine*, **2014**, 72, 1065-71	4.4	23
79	Quantitative susceptibility mapping-based cerebral metabolic rate of oxygen mapping with minimum local variance. *Magnetic Resonance in Medicine*, **2018**, 79, 172-179	4.4	22
78	Quantification of cerebral perfusion using dynamic quantitative susceptibility mapping. *Magnetic Resonance in Medicine*, **2015**, 73, 1540-8	4.4	22
77	Multicenter reproducibility of quantitative susceptibility mapping in a gadolinium phantom using MEDI+0 automatic zero referencing. *Magnetic Resonance in Medicine*, **2019**, 81, 1229-1236	4.4	22
76	Diagnostic accuracy of intracellular uptake rates calculated using dynamic Gd-EOB-DTPA-enhanced MRI for hepatic fibrosis stage. *Journal of Magnetic Resonance Imaging*, **2017**, 45, 1177-1185	5.6	21
75	Anticipatory Posturing of the Vocal Tract Reveals Dissociation of Speech Movement Plans from Linguistic Units. *PLoS ONE*, **2016**, 11, e0146813	3.7	20
74	Fidelity imposed network edit (FINE) for solving ill-posed image reconstruction. *NeuroImage*, **2020**, 211, 116579	7.9	18
73	Flip angle profile correction for T and T quantification with look-locker inversion recovery 2D steady-state free precession imaging. *Magnetic Resonance in Medicine*, **2012**, 68, 1579-85	4.4	18
72	Quantitative Susceptibility Mapping of Time-Dependent Susceptibility Changes in Multiple Sclerosis Lesions. *American Journal of Neuroradiology*, **2019**, 40, 987-993	4.4	18
71	Magnetic susceptibility increases as diamagnetic molecules breakdown: Myelin digestion during multiple sclerosis lesion formation contributes to increase on QSM. *Journal of Magnetic Resonance Imaging*, **2018**, 48, 1281-1287	5.6	17
70	Cardiac quantitative susceptibility mapping (QSM) for heart chamber oxygenation. *Magnetic Resonance in Medicine*, **2018**, 79, 1545-1552	4.4	16

69	Cluster analysis of time evolution (CAT) for quantitative susceptibility mapping (QSM) and quantitative blood oxygen level-dependent magnitude (qBOLD)-based oxygen extraction fraction (OEF) and cerebral metabolic rate of oxygen (CMRO) mapping. *Magnetic Resonance in Medicine*, **2020**, 83, 844-857	4.4	16
68	Free-breathing 3-dimensional steady-state free precession coronary magnetic resonance angiography: comparison of four navigator gating techniques. *Magnetic Resonance Imaging*, **2009**, 27, 807-14	3.3	15
67	View ordering for magnetization prepared steady state free precession acquisition: application in contrast-enhanced MR angiography. *Magnetic Resonance in Medicine*, **2004**, 52, 461-6	4.4	14
66	Rapid automated liver quantitative susceptibility mapping. *Journal of Magnetic Resonance Imaging*, **2019**, 50, 725-732	5.6	14
65	Clinical Integration of Automated Processing for Brain Quantitative Susceptibility Mapping: Multi-Site Reproducibility and Single-Site Robustness. *Journal of Neuroimaging*, **2019**, 29, 689-698	2.8	13
64	Reduction of reconstruction time for time-resolved spiral 3D contrast-enhanced magnetic resonance angiography using parallel computing. *Magnetic Resonance in Medicine*, **2006**, 56, 704-8	4.4	13
63	Quantitative Susceptibility Mapping: MRI at 7T versus 3T. *Journal of Neuroimaging*, **2020**, 30, 65-75	2.8	13
62	Free-breathing 3D steady-state free precession coronary magnetic resonance angiography: comparison of diaphragm and cardiac fat navigators. *Journal of Magnetic Resonance Imaging*, **2008**, 28, 509-14	5.6	12
61	Self-gated free-breathing 3D coronary CINE imaging with simultaneous water and fat visualization. *PLoS ONE*, **2014**, 9, e89315	3.7	11
60	Effect of blood flow on double inversion recovery vessel wall MRI of the peripheral arteries: quantitation with T2 mapping and comparison with flow-insensitive T2-prepared inversion recovery imaging. *Magnetic Resonance in Medicine*, **2010**, 63, 736-44	4.4	10
59	Improved magnetization preparation for navigator steady-state free precession 3D coronary MR angiography. *Magnetic Resonance in Medicine*, **2004**, 51, 1297-300	4.4	9
58	Validation of MRI quantitative susceptibility mapping of superparamagnetic iron oxide nanoparticles for hyperthermia applications in live subjects. *Scientific Reports*, **2020**, 10, 1171	4.9	8
57	How accurate is MOLLI T1 mapping in vivo? Validation by spin echo methods. *PLoS ONE*, **2014**, 9, e107327	3.7	8
56	Initial Experience of Challenge-Free MRI-Based Oxygen Extraction Fraction Mapping of Ischemic Stroke at Various Stages: Comparison With Perfusion and Diffusion Mapping. *Frontiers in Neuroscience*, **2020**, 14, 535441	5.1	8
55	Discontinuity Preserving Liver MR Registration with 3D Active Contour Motion Segmentation. *IEEE Transactions on Biomedical Engineering*, **2018**,	5	8
54	Rapid whole brain myelin water content mapping without an external water standard at 1.5T. *Magnetic Resonance Imaging*, **2017**, 39, 82-88	3.3	7
53	Clinical feasibility of brain quantitative susceptibility mapping. *Magnetic Resonance Imaging*, **2019**, 60, 44-51	3.3	7
52	Quantitative susceptibility mapping across two clinical field strengths: Contrast-to-noise ratio enhancement at 1.5T. *Journal of Magnetic Resonance Imaging*, **2018**, 48, 1410-1420	5.6	7

51	A radial self-calibrated (RASCAL) generalized autocalibrating partially parallel acquisition (GRAPPA) method using weight interpolation. *NMR in Biomedicine*, **2011**, 24, 844-54	4.4	7
50	On the influence of zero-padding on the nonlinear operations in Quantitative Susceptibility Mapping. *Magnetic Resonance Imaging*, **2017**, 35, 154-159	3.3	6
49	Free-Breathing 3D Imaging of Right Ventricular Structure and Function Using Respiratory and Cardiac Self-Gated Cine MRI. *BioMed Research International*, **2015**, 2015, 819102	3	6
48	Contrast-enhanced magnetic resonance angiography with biodegradable (Gd-DTPA)-cystamine copolymers: comparison with MS-325 in a swine model. *Molecular Pharmaceutics*, **2006**, 3, 558-65	5.6	6
47	Brain Iron Distribution after Multiple Doses of Ultra-small Superparamagnetic Iron Oxide Particles in Rats. *Comparative Medicine*, **2018**, 68, 139-147	1.6	6
46	Clinical Integration of Quantitative Susceptibility Mapping Magnetic Resonance Imaging into Neurosurgical Practice. *World Neurosurgery*, **2019**, 122, e10-e19	2.1	6
45	Primal-dual and forward gradient implementation for quantitative susceptibility mapping. *Magnetic Resonance in Medicine*, **2017**, 78, 2416-2427	4.4	5
44	Free breathing three-dimensional cardiac quantitative susceptibility mapping for differential cardiac chamber blood oxygenation - initial validation in patients with cardiovascular disease inclusive of direct comparison to invasive catheterization. *Journal of Cardiovascular Magnetic Resonance*, **2019**, 21, 70	6.9	5
43	Automated adaptive preconditioner for quantitative susceptibility mapping. *Magnetic Resonance in Medicine*, **2020**, 83, 271-285	4.4	5
42	Magnetic resonance microscopy may enable distinction between normal histomorphological features and prostate cancer in the resected prostate gland. *BJU International*, **2017**, 119, 414-423	5.6	4
41	Vastly accelerated linear least-squares fitting with numerical optimization for dual-input delay-compensated quantitative liver perfusion mapping. *Magnetic Resonance in Medicine*, **2018**, 79, 2415-2421	4.4	4
40	Patch based reconstruction of undersampled data (PROUD) for high signal-to-noise ratio and high frame rate contrast enhanced liver imaging. *Magnetic Resonance in Medicine*, **2015**, 74, 1587-97	4.4	4
39	The influence of molecular order and microstructure on the R2* and the magnetic susceptibility tensor. *Magnetic Resonance Imaging*, **2016**, 34, 682-9	3.3	4
38	Sliding motion compensated low-rank plus sparse (SMC-LS) reconstruction for high spatiotemporal free-breathing liver 4D DCE-MRI. *Magnetic Resonance Imaging*, **2019**, 58, 56-66	3.3	4
37	Quantitative transport mapping (QTM) of the kidney with an approximate microvascular network. *Magnetic Resonance in Medicine*, **2021**, 85, 2247-2262	4.4	4
36	Quantitative susceptibility mapping of carotid plaques using nonlinear total field inversion: Initial experience in patients with significant carotid stenosis. *Magnetic Resonance in Medicine*, **2020**, 84, 1501-1509	4.4	3
35	Quantitative susceptibility mapping of the spine using in-phase echoes to initialize inhomogeneous field and R2* for the nonconvex optimization problem of fat-water separation. *NMR in Biomedicine*, **2019**, 32, e4156	4.4	3
34	Three-dimensional flow-independent balanced steady-state free precession vessel wall MRI of the popliteal artery: preliminary experience and comparison with flow-dependent black-blood techniques. *Journal of Magnetic Resonance Imaging*, **2011**, 34, 696-701	5.6	3

33	A fast Edge-preserving Bayesian reconstruction method for Parallel Imaging applications in cardiac MRI. *Magnetic Resonance in Medicine*, **2011**, 65, 184-9	4.4	3
32	Deep neural network for water/fat separation: Supervised training, unsupervised training, and no training. *Magnetic Resonance in Medicine*, **2021**, 85, 2263-2277	4.4	3
31	DEEPMIR: a deep neural network for differential detection of cerebral microbleeds and iron deposits in MRI. *Scientific Reports*, **2021**, 11, 14124	4.9	3
30	Brain Injury Lesion Imaging Using Preconditioned Quantitative Susceptibility Mapping without Skull Stripping. *American Journal of Neuroradiology*, **2018**, 39, 648-653	4.4	2
29	Coherence enhancement in quantitative susceptibility mapping by means of anisotropic weighting in morphology enabled dipole inversion. *Magnetic Resonance in Medicine*, **2018**, 79, 1172-1180	4.4	2
28	Quantitative evaluation of gadoxetate hepatocyte phase homogeneity: potential imaging markers for detection of early cirrhosis. *Clinical Imaging*, **2016**, 40, 979-86	2.7	2
27	Highly accelerated 3D dynamic contrast enhanced MRI from sparse spiral sampling using integrated partial separability model and JSENSE **2014**,		2
26	Reconstruction of highly under-sampled dynamic MRI using sparse representation of 1D temporal snippets **2015**,		2
25	Optimal coil array design: the two-coil case. *Magnetic Resonance Imaging*, **2007**, 25, 671-7	3.3	2
24	Motion artifact suppression in breath hold 3D contrast enhanced magnetic resonance angiography using ECG ordering. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2006**, 2006, 739-42		2
23	Quantitative Measurement of Metal Accumulation in Brain of Patients With Wilson® Disease. *Movement Disorders*, **2020**, 35, 1787-1795	7	2
22	Multiecho complex total field inversion method (mcTFI) for improved signal modeling in quantitative susceptibility mapping. *Magnetic Resonance in Medicine*, **2021**, 86, 2165-2178	4.4	2
21	Temporal clustering, tissue composition, and total variation for mapping oxygen extraction fraction using QSM and quantitative BOLD. *Magnetic Resonance in Medicine*, **2021**, 86, 2635-2646	4.4	2
20	Cerebral oxygen extraction fraction: Comparison of dual-gas challenge calibrated BOLD with CBF and challenge-free gradient echo QSM+qBOLD. *Magnetic Resonance in Medicine*, **2021**, 85, 953-961	4.4	2
19	Integrated quantitative susceptibility and R * mapping for evaluation of liver fibrosis: An ex vivo feasibility study. *NMR in Biomedicine*, **2021**, 34, e4412	4.4	2
18	QSMRim-Net: Imbalance-aware learning for identification of chronic active multiple sclerosis lesions on quantitative susceptibility maps.. *NeuroImage: Clinical*, **2022**, 34, 102979	5.3	2
17	Patents on Quantitative Susceptibility Mapping (QSM) of Tissue Magnetism. *Recent Patents on Biotechnology*, **2019**, 13, 90-113	2.2	1
16	Quantitative transport mapping (QTM) for differentiating benign and malignant breast lesion: Comparison with traditional kinetics modeling and semi-quantitative enhancement curve characteristics. *Magnetic Resonance Imaging*, **2021**, 86, 86-93	3.3	1

15	ALL-Net: Anatomical information lesion-wise loss function integrated into neural network for multiple sclerosis lesion segmentation. *NeuroImage: Clinical*, **2021**, 32, 102854	5.3	1
14	QQ-NET - using deep learning to solve quantitative susceptibility mapping and quantitative blood oxygen level dependent magnitude (QSM+qBOLD or QQ) based oxygen extraction fraction (OEF) mapping. *Magnetic Resonance in Medicine*, **2021**, 87, 1583	4.4	1
13	Dipole modeling of multispectral signal for detecting metallic biopsy markers during MRI-guided breast biopsy: a pilot study. *Magnetic Resonance in Medicine*, **2020**, 83, 1380-1389	4.4	1
12	DCE-MRI quantitative transport mapping for noninvasively detecting hypoxia inducible factor-1 epidermal growth factor receptor overexpression, and Ki-67 in nasopharyngeal carcinoma patients. *Radiotherapy and Oncology*, **2021**, 164, 146-154	5.3	1
11	Brain oxygen extraction fraction mapping in patients with multiple sclerosis. *Journal of Cerebral Blood Flow and Metabolism*, **2021**, 271678X211048031	7.3	1
10	GAMER MRI: Gated-attention mechanism ranking of multi-contrast MRI in brain pathology. *NeuroImage: Clinical*, **2021**, 29, 102522	5.3	1
9	The appearance of magnetic susceptibility objects in SWI phase depends on object size: Comparison with QSM and CT. *Clinical Imaging*, **2021**, 82, 67-72	2.7	0
8	Quantitative Susceptibility Mapping for Staging Acute Cerebral Hemorrhages: Comparing the Conventional and Multiecho Complex Total Field Inversion magnetic resonance imaging MR Methods. *Journal of Magnetic Resonance Imaging*, **2021**, 54, 1843-1854	5.6	0
7	Increased risk for cerebral small vessel disease is associated with quantitative susceptibility mapping in HIV infected and uninfected individuals. *NeuroImage: Clinical*, **2021**, 32, 102786	5.3	0
6	Quantitative Susceptibility Mapping of Magnetic Quadrupole Moments. *Concepts in Magnetic Resonance Part A: Bridging Education and Research*, **2019**, 2019, 1-14	0.6	
5	Spatially Adaptive Regularization in Total Field Inversion for Quantitative Susceptibility Mapping. *IScience*, **2020**, 23, 101553	6.1	
4	Nonlinear profile order for three-dimensional hybrid radial acquisition applied to self-gated free-breathing cardiac cine MRI. *Chinese Physics B*, **2017**, 26, 018701	1.2	
3	Attenuation of motion artifacts in fMRI using discrete reconstruction of irregular fMRI trajectories (DRIFT). *Magnetic Resonance in Medicine*, **2021**, 86, 1586-1599	4.4	
2	Multispectral Imaging for Metallic Biopsy Marker Detection During MRI-Guided Breast Biopsy: A Feasibility Study for Clinical Translation. *Frontiers in Oncology*, **2021**, 11, 605014	5.3	
1	Temporal Feature Fusion with Sampling Pattern Optimization for Multi-echo Gradient Echo Acquisition and Image Reconstruction. *Lecture Notes in Computer Science*, **2021**, 232-242	0.9	