

# Andreas Deistung

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

4,217  
citations

201385

27  
h-index

182168

51  
g-index

60  
all docs

60  
docs citations

60  
times ranked

3900  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative imaging of intrinsic magnetic tissue properties using MRI signal phase: An approach to in vivo brain iron metabolism?. <i>NeuroImage</i> , 2011, 54, 2789-2807.	2.1	620
2	Quantitative susceptibility mapping (QSM) as a means to measure brain iron? A post mortem validation study. <i>NeuroImage</i> , 2012, 62, 1593-1599.	2.1	615
3	Toward in vivo histology: A comparison of quantitative susceptibility mapping (QSM) with magnitude-, phase-, and R2*-imaging at ultra-high magnetic field strength. <i>NeuroImage</i> , 2013, 65, 299-314.	2.1	382
4	Overview of quantitative susceptibility mapping. <i>NMR in Biomedicine</i> , 2017, 30, e3569.	1.6	228
5	Quantitative susceptibility mapping for investigating subtle susceptibility variations in the human brain. <i>NeuroImage</i> , 2012, 62, 2083-2100.	2.1	219
6	Differentiation between diamagnetic and paramagnetic cerebral lesions based on magnetic susceptibility mapping. <i>Medical Physics</i> , 2010, 37, 5165-5178.	1.6	207
7	Quantitative Susceptibility Mapping in Parkinson's Disease. <i>PLoS ONE</i> , 2016, 11, e0162460.	1.1	184
8	Susceptibility weighted imaging at ultra high magnetic field strengths: Theoretical considerations and experimental results. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 1155-1168.	1.9	148
9	Toward online reconstruction of quantitative susceptibility maps: Superfast dipole inversion. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1581-1593.	1.9	139
10	Quantitative Susceptibility Mapping Differentiates between Blood Depositions and Calcifications in Patients with Glioblastoma. <i>PLoS ONE</i> , 2013, 8, e57924.	1.1	137
11	The influence of brain iron and myelin on magnetic susceptibility and effective transverse relaxation - A biochemical and histological validation study. <i>NeuroImage</i> , 2018, 179, 117-133.	2.1	129
12	Foundations of MRI phase imaging and processing for Quantitative Susceptibility Mapping (QSM). <i>Zeitschrift Fur Medizinische Physik</i> , 2016, 26, 6-34.	0.6	106
13	High-Resolution MR Imaging of the Human Brainstem In vivo at 7 Tesla. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 710.	1.0	88
14	Detection of Cerebral Microbleeds with Quantitative Susceptibility Mapping in the Arcabeta Mouse Model of Cerebral Amyloidosis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 2282-2292.	2.4	74
15	ToF-SWI: Simultaneous time of flight and fully flow compensated susceptibility weighted imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 29, 1478-1484.	1.9	67
16	A comprehensive numerical analysis of background phase correction with V-SHARP. <i>NMR in Biomedicine</i> , 2017, 30, e3550.	1.6	65
17	Superficial white matter imaging: Contrast mechanisms and whole-brain in vivo mapping. <i>Science Advances</i> , 2020, 6, .	4.7	65
18	Quantitative susceptibility mapping (QSM) and R2* in the human brain at 3 T. <i>Zeitschrift Fur Medizinische Physik</i> , 2018, 28, 36-48.	0.6	58

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19	Investigation of the influence of carbon dioxide concentrations on cerebral physiology by susceptibility-weighted magnetic resonance imaging (SWI). <i>NeuroImage</i> , 2008, 43, 36-43.	2.1	56
20	Demonstration of paramagnetic and diamagnetic cerebral lesions by using susceptibility weighted phase imaging (SWI). <i>Zeitschrift Fur Medizinische Physik</i> , 2006, 16, 261-267.	0.6	55
21	Comparison of Susceptibility Weighted Imaging and TOF-Angiography for the Detection of Thrombi in Acute Stroke. <i>PLoS ONE</i> , 2013, 8, e63459.	1.1	48
22	Susceptibility Weighted Imaging: Data Acquisition, Image Reconstruction and Clinical Applications. <i>Zeitschrift Fur Medizinische Physik</i> , 2006, 16, 240-250.	0.6	44
23	Longitudinal Assessment of Amyloid Pathology in Transgenic ArcA <sup>2</sup> Mice Using Multi-Parametric Magnetic Resonance Imaging. <i>PLoS ONE</i> , 2013, 8, e66097.	1.1	38
24	Improved elimination of phase effects from background field inhomogeneities for susceptibility weighted imaging at high magnetic field strengths. <i>Magnetic Resonance Imaging</i> , 2008, 26, 1145-1151.	1.0	37
25	An improved FSL-FIRST pipeline for subcortical gray matter segmentation to study abnormal brain anatomy using quantitative susceptibility mapping (QSM). <i>Magnetic Resonance Imaging</i> , 2017, 39, 110-122.	1.0	36
26	Changes of deep gray matter magnetic susceptibility over 2 years in multiple sclerosis and healthy control brain. <i>NeuroImage: Clinical</i> , 2018, 18, 1007-1016.	1.4	32
27	Quantitative assessment of microvasculopathy in arcA <sup>2</sup> mice with USPIO-enhanced gradient echo MRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 1614-1624.	2.4	29
28	Structural and Functional Magnetic Resonance Imaging of the Cerebellum: Considerations for Assessing Cerebellar Ataxias. <i>Cerebellum</i> , 2016, 15, 21-25.	1.4	29
29	Brain Structure and Degeneration Staging in Friedreich Ataxia: <sc>Magnetic Resonance Imaging</sc> Volumetrics from the <sc>ENIGMAâ€Ataxia</sc> Working Group. <i>Annals of Neurology</i> , 2021, 90, 570-583.	2.8	27
30	SHARP edges: Recovering cortical phase contrast through harmonic extension. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 851-856.	1.9	26
31	A new framework for assessing subject-specific whole brain circulation and perfusion using MRI-based measurements and a multi-scale continuous flow model. <i>PLoS Computational Biology</i> , 2019, 15, e1007073.	1.5	24
32	Brain iron quantification by MRI in mitochondrial membrane proteinâ€associated neurodegeneration under ironâ€chelating therapy. <i>Annals of Clinical and Translational Neurology</i> , 2014, 1, 1041-1046.	1.7	23
33	Simulation of MR angiography imaging for validation of cerebral arteries segmentation algorithms. <i>Computer Methods and Programs in Biomedicine</i> , 2016, 137, 293-309.	2.6	21
34	Vascular and Tissue Changes of Magnetic Susceptibility in the Mouse Brain After Transient Cerebral Ischemia. <i>Translational Stroke Research</i> , 2018, 9, 426-435.	2.3	17
35	Analysis of intensity normalization for optimal segmentation performance of a fully convolutional neural network. <i>Zeitschrift Fur Medizinische Physik</i> , 2019, 29, 128-138.	0.6	17
36	Susceptibility-Weighted Imaging Provides Insight into White Matter Damage in Amyotrophic Lateral Sclerosis. <i>PLoS ONE</i> , 2015, 10, e0131114.	1.1	15

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37	Quantitative susceptibility mapping reveals alterations of dentate nuclei in common types of degenerative cerebellar ataxias. <i>Brain Communications</i> , 2022, 4, fcab306.	1.5	15
38	Microvessels may Confound the “Swallow Tail Sign” in Normal Aged Midbrains: A Postmortem 7 T SWI-MRI Study. <i>Journal of Neuroimaging</i> , 2019, 29, 65-69.	1.0	14
39	Automated modeling of tubular blood vessels in 3D MR angiography images. , 2015, , .		11
40	GUIBOLD: A Graphical User Interface for Image Reconstruction and Data Analysis in Susceptibility-weighted MR Imaging. <i>Radiographics</i> , 2008, 28, 639-651.	1.4	10
41	Characterization of Iron Accumulation in Deep Gray Matter in Myotonic Dystrophy Type 1 and 2 Using Quantitative Susceptibility Mapping and R2* Relaxometry: A Magnetic Resonance Imaging Study at 3 Tesla. <i>Frontiers in Neurology</i> , 2019, 10, 1320.	1.1	10
42	Susceptibility Sensitive Magnetic Resonance Imaging Displays Pallidofugal and Striatonigral Fiber Tracts. <i>Operative Neurosurgery</i> , 2016, 12, 330-338.	0.4	10
43	Quantitative Susceptibility Mapping Indicates a Disturbed Brain Iron Homeostasis in Neuromyelitis Optica “A Pilot Study. <i>PLoS ONE</i> , 2016, 11, e0155027.	1.1	7
44	In vivo assessment of anisotropy of apparent magnetic susceptibility in white matter from a single orientation acquisition. <i>NeuroImage</i> , 2021, 241, 118442.	2.1	6
45	A robust optical respiratory trigger for small rodents in clinical whole-body MR systems / Ein robuster optischer Atemtrigger für Kleinsäuger in klinischen Ganzkörper-MR-Scannern. <i>Biomedizinische Technik</i> , 2008, 53, 138-144.	0.9	4
46	Towards multi-scale personalized modeling of brain vasculature based on magnetic resonance image processing. , 2017, , .		4
47	Motor training-related brain reorganization in patients with cerebellar degeneration. <i>Human Brain Mapping</i> , 2022, 43, 1611-1629.	1.9	4
48	Impact of tissue atrophy on high-pass filtered MRI signal phase-based assessment in large-scale group-comparison studies: a simulation study. <i>Frontiers in Physics</i> , 2013, 1, .	1.0	3
49	Safety and effectiveness of percutaneous sclerotherapy for venous disorders of the labia majora in patients with vascular malformations. <i>Journal of Vascular Surgery: Venous and Lymphatic Disorders</i> , 2020, 8, 1083-1089.	0.9	3
50	Quantitative susceptibility mapping in ischemic stroke patients after successful recanalization. <i>Scientific Reports</i> , 2021, 11, 16038.	1.6	3
51	Detection of multiple intracranial hemorrhages in a child with acute lymphocytic leukemia (ALL) by susceptibility weighted imaging (SWI). <i>Radiology Case Reports</i> , 2007, 2, 135.	0.2	2
52	Investigation of biases in convolutional neural networks for semantic segmentation using performance sensitivity analysis. <i>Zeitschrift Fur Medizinische Physik</i> , 2022, 32, 346-360.	0.6	2
53	Arteries tracking in simultaneous TOF-SWI MR images: image characteristics and preliminary results. , 2009, , .		1
54	Magnetic susceptibility anisotropy in normal appearing white matter in multiple sclerosis from single-orientation acquisition. <i>NeuroImage: Clinical</i> , 2022, 35, 103059.	1.4	1

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55	Correction of venous contamination in time-of-flight MR angiography by using magnetic susceptibility maps. , 2009, , .		0
56	Characterization of microparticles of iron oxide for magnetic resonance imaging. Magnetic Resonance Imaging, 2022, 92, 67-81.	1.0	0