Ewart Mark Haacke

List of Publications by Year
in descending order

271 papers	16,395 citations	19657 61 h-index	19749 117 g-index
346 all docs	346 docs citations	346 times ranked	12800 citing authors

#	Article	IF	Citations
1	Susceptibility weighted imaging (SWI). Magnetic Resonance in Medicine, 2004, 52, 612-618.	3.0	1,480
2	Theory of NMR signal behavior in magnetically inhomogeneous tissues: The static dephasing regime. Magnetic Resonance in Medicine, 1994, 32, 749-763.	3.0	1,086
3	Imaging iron stores in the brain using magnetic resonance imaging. Magnetic Resonance Imaging, 2005, 23, 1-25.	1.8	891
4	Principles, Techniques, and Applications of T2*-based MR Imaging and Its Special Applications. Radiographics, 2009, 29, 1433-1449.	3.3	544
5	Quantitative susceptibility mapping: current status and future directions. Magnetic Resonance Imaging, 2015, 33, 1-25.	1.8	426
6	Clinical applications of neuroimaging with susceptibilityâ€weighted imaging. Journal of Magnetic Resonance Imaging, 2005, 22, 439-450.	3.4	404
7	Hemorrhagic Shearing Lesions in Children and Adolescents with Posttraumatic Diffuse Axonal Injury: Improved Detection and Initial Results. Radiology, 2003, 227, 332-339.	7.3	392
8	Characterizing iron deposition in multiple sclerosis lesions using susceptibility weighted imaging. Journal of Magnetic Resonance Imaging, 2009, 29, 537-544.	3.4	288
9	Theory and application of static field inhomogeneity effects in gradient-echo imaging. Journal of Magnetic Resonance Imaging, 1997, 7, 266-279.	3.4	254
10	Correlation of hypointensities in susceptibility-weighted images to tissue histology in dementia patients with cerebral amyloid angiopathy: a postmortem MRI study. Acta Neuropathologica, 2010, 119, 291-302.	7.7	246
11	Establishing a baseline phase behavior in magnetic resonance imaging to determine normal vs. abnormal iron content in the brain. Journal of Magnetic Resonance Imaging, 2007, 26, 256-264.	3.4	237
12	High-resolution BOLD venographic imaging: a window into brain function. NMR in Biomedicine, 2001, 14, 453-467.	2.8	232
13	Identification of calcification with MRI using susceptibilityâ€weighted imaging: A case study. Journal of Magnetic Resonance Imaging, 2009, 29, 177-182.	3.4	223
14	Quantifying brain iron deposition in patients with Parkinson's disease using quantitative susceptibility mapping, R2 and R2*. Magnetic Resonance Imaging, 2015, 33, 559-565.	1.8	215
15	Common Data Elements in Radiologic Imaging of Traumatic Brain Injury. Archives of Physical Medicine and Rehabilitation, 2010, 91, 1661-1666.	0.9	214
16	In vivo measurement of blood oxygen saturation using magnetic resonance imaging: A direct validation of the blood oxygen level-dependent concept in functional brain imaging. Human Brain Mapping, 1997, 5, 341-346.	3.6	198
17	High-Resolution MR Venography at 3.0 Tesla. Journal of Computer Assisted Tomography, 2000, 24, 949-957.	0.9	190
18	Susceptibility-weighted imaging to visualize blood products and improve tumor contrast in the study of brain masses. Journal of Magnetic Resonance Imaging, 2006, 24, 41-51.	3.4	184

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19	Grading of Gliomas by Using Monoexponential, Biexponential, and Stretched Exponential Diffusion-weighted MR Imaging and Diffusion Kurtosis MR Imaging. Radiology, 2016, 278, 496-504.	7.3	184
20	Brain Aging and Its Modifiers: Insights from in Vivo Neuromorphometry and Susceptibility Weighted Imaging. Annals of the New York Academy of Sciences, 2007, 1097, 84-93.	3.8	149
21	Measuring iron in the brain using quantitative susceptibility mapping and X-ray fluorescence imaging. NeuroImage, 2013, 78, 68-74.	4.2	144
22	Common data elements in radiologic imaging of traumatic brain injury. Journal of Magnetic Resonance Imaging, 2010, 32, 516-543.	3.4	139
23	Reliability in detection of hemorrhage in acute stroke by a new threeâ€dimensional gradient recalled echo susceptibilityâ€weighted imaging technique compared to computed tomography: A retrospective study. Journal of Magnetic Resonance Imaging, 2004, 20, 372-377.	3.4	138
24	Accurate determination of spin-density andT1 in the presence of RF-field inhomogeneities and flip-angle miscalibration. Magnetic Resonance in Medicine, 1998, 40, 592-602.	3.0	136
25	Imaging cerebral microbleeds using susceptibility weighted imaging: One step toward detecting vascular dementia. Journal of Magnetic Resonance Imaging, 2010, 31, 142-148.	3.4	132
26	Basic physics of MR contrast agents and maximization of image contrast. Journal of Magnetic Resonance Imaging, 1993, 3, 137-148.	3.4	131
27	Nonnvasive assessment of vascular architecture and function during modulated blood oxygenation using susceptibility weighted magnetic resonance imaging. Magnetic Resonance in Medicine, 2005, 54, 87-95.	3.0	130
28	Resting State Functional Connectivity in Mild Traumatic Brain Injury at the Acute Stage: Independent Component and Seed-Based Analyses. Journal of Neurotrauma, 2015, 32, 1031-1045.	3.4	122
29	Susceptibilityâ€weighted imaging: current status and future directions. NMR in Biomedicine, 2017, 30, e3552.	2.8	121
30	Serial Susceptibility Weighted MRI Measures Brain Iron and Microbleeds in Dementia. Journal of Alzheimer's Disease, 2009, 17, 599-609.	2.6	120
31	Myocardial signal response to dipyridamole and dobutamine: Demonstration of the BOLD effect using a double-echo gradient-echo sequence. Magnetic Resonance in Medicine, 1996, 36, 16-20.	3.0	119
32	Correlation of putative iron content as represented by changes in R2* and phase with age in deep gray matter of healthy adults. Journal of Magnetic Resonance Imaging, 2010, 32, 561-576.	3.4	112
33	Diminished visibility of cerebral venous vasculature in multiple sclerosis by susceptibilityâ€weighted imaging at 3.0 Tesla. Journal of Magnetic Resonance Imaging, 2009, 29, 1190-1194.	3.4	108
34	High-resolution venography of the brain using magnetic resonance imaging. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1998, 6, 62-69.	2.0	106
35	Semiautomated detection of cerebral microbleeds in magnetic resonance images. Magnetic Resonance Imaging, 2011, 29, 844-852.	1.8	101
36	In vivo validation of the bold mechanism: A review of signal changes in gradient echo functional MRI in the presence of flow. International Journal of Imaging Systems and Technology, 1995, 6, 153-163.	4.1	99

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37	Susceptibility-Weighted Imaging: Clinical Angiographic Applications. Magnetic Resonance Imaging Clinics of North America, 2009, 17, 47-61.	1.1	97
38	Cerebral Hemodynamic Changes of Mild Traumatic Brain Injury at the Acute Stage. PLoS ONE, 2015, 10, e0118061.	2.5	95
39	Striatal Iron Content Predicts Its Shrinkage and Changes in Verbal Working Memory after Two Years in Healthy Adults. Journal of Neuroscience, 2015, 35, 6731-6743.	3.6	92
40	Susceptibility-weighted Imaging: Technical Essentials and Clinical Neurologic Applications. Radiology, 2021, 299, 3-26.	7.3	92
41	Blast-Induced Tinnitus and Hearing Loss in Rats: Behavioral and Imaging Assays. Journal of Neurotrauma, 2012, 29, 430-444.	3.4	91
42	Is There Chronic Brain Damage in Retired NFL Players? Neuroradiology, Neuropsychology, and Neurology Examinations of 45 Retired Players. Sports Health, 2014, 6, 384-395.	2.7	91
43	MR susceptibility weighted imaging (SWI) complements conventional contrast enhanced T1 weighted MRI in characterizing brain abnormalities of Sturgeâ€Weber Syndrome. Journal of Magnetic Resonance Imaging, 2008, 28, 300-307.	3.4	89
44	The role of voxel aspect ratio in determining apparent vascular phase behavior in susceptibility weighted imaging. Magnetic Resonance Imaging, 2006, 24, 155-160.	1.8	85
45	The Role of Hippocampal Iron Concentration and Hippocampal Volume in Age-Related Differences in Memory. Cerebral Cortex, 2013, 23, 1533-1541.	2.9	83
46	An MRI method for measuringT2 in the presence of static and RF magnetic field Inhomogeneities. Magnetic Resonance in Medicine, 1997, 37, 872-876.	3.0	82
47	In vivo measurement of tissue damage, oxygen saturation changes and blood flow changes after experimental traumatic brain injury in rats using susceptibility weighted imaging. Magnetic Resonance Imaging, 2007, 25, 219-227.	1.8	82
48	Advances in neuroimaging of traumatic brain injury and posttraumatic stress disorder. Journal of Rehabilitation Research and Development, 2009, 46, 717.	1.6	80
49	Detection of Hemorrhagic Hypointense Foci in the Brain on Susceptibility-Weighted Imaging. Academic Radiology, 2007, 14, 1011-1019.	2.5	78
50	In vivo measurement of changes in venous blood-oxygenation with high resolution functional MRI at 0.95 Tesla by measuring changes in susceptibility and velocity. Magnetic Resonance in Medicine, 1998, 39, 97-107.	3.0	76
51	Removing background phase variations in susceptibilityâ€weighted imaging using a fast, forwardâ€field calculation. Journal of Magnetic Resonance Imaging, 2009, 29, 937-948.	3.4	76
52	STrategically Acquired Gradient Echo (STAGE) imaging, part I: Creating enhanced T1 contrast and standardized susceptibility weighted imaging and quantitative susceptibility mapping. Magnetic Resonance Imaging, 2018, 46, 130-139.	1.8	76
53	Limitations of calculating field distributions and magnetic susceptibilities in MRI using a Fourier based method. Physics in Medicine and Biology, 2009, 54, 1169-1189.	3.0	75
54	Three-dimensional MR imaging of the coronary arteries: Preliminary clinical experience. Journal of Magnetic Resonance Imaging, 1993, 3, 491-500.	3.4	74

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55	Functional MRI in human somatosensory cortex activated by touching textured surfaces. Journal of Magnetic Resonance Imaging, 1996, 6, 565-572.	3.4	72
56	Quantifying iron content in magnetic resonance imaging. NeuroImage, 2019, 187, 77-92.	4.2	71
57	The connectivity domain: Analyzing resting state fMRI data using feature-based data-driven and model-based methods. NeuroImage, 2016, 134, 494-507.	4.2	69
58	Gadolinium-enhanced high-resolution MR angiography with adaptive vessel tracking: Preliminary results in the intracranial circulation. Journal of Magnetic Resonance Imaging, 1992, 2, 277-284.	3.4	68
59	Pseudo-gating: Elimination of periodic motion artifacts in magnetic resonance imaging without gating. Magnetic Resonance in Medicine, 1987, 4, 162-174.	3.0	66
60	Decreased oxygen saturation in asymmetrically prominent cortical veins in patients with cerebral ischemic stroke. Magnetic Resonance Imaging, 2014, 32, 1272-1276.	1.8	66
61	New algorithm for quantifying vascular changes in dynamic contrastâ€enhanced MRI independent of absolute T₁ values. Magnetic Resonance in Medicine, 2007, 58, 463-472.	3.0	65
62	Susceptibility weighted imaging in detecting hemorrhage in acute cervical spinal cord injury. Magnetic Resonance Imaging, 2011, 29, 365-373.	1.8	65
63	A Eu^{II}â€Containing Cryptate as a Redox Sensor in Magnetic Resonance Imaging of Living Tissue. Angewandte Chemie - International Edition, 2015, 54, 14398-14401.	13.8	64
64	Differential effects of age and history of hypertension on regional brain volumes and iron. NeuroImage, 2011, 54, 750-759.	4.2	63
65	Recent Developments in Imaging of Multiple Sclerosis. Neurologist, 2011, 17, 185-204.	0.7	63
66	Imaging the Nigrosome 1 in the substantia nigra using susceptibility weighted imaging and quantitative susceptibility mapping: An application to Parkinson's disease. NeuroImage: Clinical, 2020, 25, 102103.	2.7	63
67	Contrast-enhanced magnetic resonance angiography of carotid arterial wall in pigs. Journal of Magnetic Resonance Imaging, 1997, 7, 183-190.	3.4	62
68	Patients with Multiple Sclerosis with Structural Venous Abnormalities on MR Imaging Exhibit an Abnormal Flow Distribution of the Internal Jugular Veins. Journal of Vascular and Interventional Radiology, 2012, 23, 60-68.e3.	0.5	61
69	Constrained reconstruction: A superresolution, optimal signal-to-noise alternative to the Fourier transform in magnetic resonance imaging. Medical Physics, 1989, 16, 388-397.	3.0	60
70	Regional High Iron in the Substantia Nigra Differentiates Parkinsonâ€™s Disease Patients From Healthy Controls. Frontiers in Aging Neuroscience, 2019, 11, 106.	3.4	59
71	Quantitative measurements of regional cerebral blood volume using MRI in rats: Effects of arterial carbon dioxide tension and mannitol. Magnetic Resonance in Medicine, 1997, 38, 420-428.	3.0	58
72	Cortical calcification in sturgeâ€“weber syndrome on MRIâ€SWI: Relation to brain perfusion status and seizure severity. Journal of Magnetic Resonance Imaging, 2011, 34, 791-798.	3.4	57

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73	Recommendations for Multimodal Noninvasive and Invasive Screening for Detection of Extracranial Venous Abnormalities Indicative of Chronic Cerebrospinal Venous Insufficiency: A Position Statement of the International Society for Neurovascular Disease. Journal of Vascular and Interventional Radiology, 2014, 25, 1785-1794.e17.	0.5	57
74	Patterns of chronic venous insufficiency in the dural sinuses and extracranial draining veins and their relationship with white matter hyperintensities for patients with Parkinson's disease. Journal of Vascular Surgery, 2015, 61, 1511-1520.e1.	1.1	57
75	Assessing global and regional iron content in deep gray matter as a function of age using susceptibility mapping. Journal of Magnetic Resonance Imaging, 2016, 44, 59-71.	3.4	56
76	Cerebral microbleed detection using Susceptibility Weighted Imaging and deep learning. NeuroImage, 2019, 198, 271-282.	4.2	55
77	Quantitation ofT2â€² anisotropic effects on magnetic resonance bone mineral density measurement. Magnetic Resonance in Medicine, 1997, 37, 214-221.	3.0	54
78	Dynamic Contrast-Enhanced Magnetic Resonance Imaging of Vascular Changes Induced by Sunitinib in Papillary Renal Cell Carcinoma Xenograft Tumors. Neoplasia, 2009, 11, 910-920.	5.3	54
79	Susceptibilityâ€Weighted Imaging of Glioma: Update on Current Imaging Status and Future Directions. Journal of Neuroimaging, 2016, 26, 383-390.	2.0	54
80	Radiomic Features of the Nigrosome-1 Region of the Substantia Nigra: Using Quantitative Susceptibility Mapping to Assist the Diagnosis of Idiopathic Parkinson's Disease. Frontiers in Aging Neuroscience, 2019, 11, 167.	3.4	52
81	Compensation through Functional Hyperconnectivity: A Longitudinal Connectome Assessment of Mild Traumatic Brain Injury. Neural Plasticity, 2016, 2016, 1-13.	2.2	50
82	Three-dimensional time-of-flight MR angiography using selective inversion recovery RAGE with fat saturation and ECG-triggering: Application to renal arteries. Magnetic Resonance in Medicine, 1994, 31, 414-422.	3.0	49
83	Susceptibility mapping of air, bone, and calcium in the head. Magnetic Resonance in Medicine, 2015, 73, 2185-2194.	3.0	48
84	Improving the temporal resolution of functional MR imaging using keyhole techniques. Magnetic Resonance in Medicine, 1996, 35, 854-860.	3.0	47
85	Sub-millimeter fMRI at 1.5 tesla: Correlation of high resolution with low resolution measurements. Journal of Magnetic Resonance Imaging, 1999, 9, 475-482.	3.4	47
86	STrategically Acquired Gradient Echo (STAGE) imaging, part III: Technical advances and clinical applications of a rapid multi-contrast multi-parametric brain imaging method. Magnetic Resonance Imaging, 2020, 65, 15-26.	1.8	46
87	Imaging the vessel wall in major peripheral arteries using susceptibilityâ€weighted imaging. Journal of Magnetic Resonance Imaging, 2009, 30, 357-365.	3.4	45
88	STrategically Acquired Gradient Echo (STAGE) imaging, part II: Correcting for RF inhomogeneities in estimating T1 and proton density. Magnetic Resonance Imaging, 2018, 46, 140-150.	1.8	42
89	MR imaging findings in mild traumatic brain injury with persistent neurological impairment. Magnetic Resonance Imaging, 2017, 37, 243-251.	1.8	40
90	Quantification of punctate iron sources using magnetic resonance phase. Magnetic Resonance in Medicine, 2010, 63, 106-115.	3.0	39

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91	Mapping of Cerebral Oxygen Extraction Fraction Changes with Susceptibility-weighted Phase Imaging. Radiology, 2011, 261, 930-936.	7.3	39
92	Structural Features of Europium(II)â€Containing Cryptates That Influence Relaxivity. Chemistry - A European Journal, 2017, 23, 15404-15414.	3.3	39
93	Improved MR venography using quantitative susceptibility-weighted imaging. Journal of Magnetic Resonance Imaging, 2014, 40, 698-708.	3.4	38
94	Magnetic resonance imaging of the brain with gadopentetate dimeglumine-DTPA: Comparison of T1-weighted spin-echo and 3D gradient-echo sequences. Journal of Magnetic Resonance Imaging, 1996, 6, 415-424.	3.4	37
95	Susceptibility Weighted Imaging and Mapping of Micro-Hemorrhages and Major Deep Veins after Traumatic Brain Injury. Journal of Neurotrauma, 2016, 33, 10-21.	3.4	37
96	Carotid-CNS MR flow imaging. Magnetic Resonance in Medicine, 1990, 14, 308-314.	3.0	36
97	Quantitative regional brain water measurement with magnetic resonance imaging in a focal ischemia model. Magnetic Resonance in Medicine, 1997, 38, 303-310.	3.0	36
98	Role of high resolution in magnetic resonance (MR) imaging: Applications to MR angiography, intracranialT1-weighted imaging, and image interpolation. International Journal of Imaging Systems and Technology, 1997, 8, 529-543.	4.1	36
99	1.5 Tesla Magnetic Resonance Imaging to Investigate Potential Etiologies of Brain Swelling in Pediatric Cerebral Malaria. American Journal of Tropical Medicine and Hygiene, 2018, 98, 497-504.	1.4	36
100	Catalytic multiecho phase unwrapping scheme (CAMPUS) in multiecho gradient echo imaging: Removing phase wraps on a voxelâ€byâ€voxel basis. Magnetic Resonance in Medicine, 2013, 70, 117-126.	3.0	35
101	Connectome-scale assessment of structural and functional connectivity in mild traumatic brain injury at the acute stage. NeuroImage: Clinical, 2016, 12, 100-115.	2.7	35
102	Quantitative susceptibility mapping based hybrid feature extraction for diagnosis of Parkinson's disease. NeuroImage: Clinical, 2019, 24, 102070.	2.7	35
103	Complex threshold method for identifying pixels that contain predominantly noise in magnetic resonance images. Journal of Magnetic Resonance Imaging, 2008, 28, 727-735.	3.4	34
104	Quantifying errors in flow measurement using phase contrast magnetic resonance imaging: comparison of several boundary detection methods. Magnetic Resonance Imaging, 2015, 33, 185-193.	1.8	34
105	In vivoimaging of prodromal hippocampus CA1 subfield oxidative stress in models of Alzheimer disease and Angelman syndrome. FASEB Journal, 2017, 31, 4179-4186.	0.5	34
106	Imaging iron and neuromelanin simultaneously using a single 3D gradient echo magnetization transfer sequence: Combining neuromelanin, iron and the nigrosome-1 sign as complementary imaging biomarkers in early stage Parkinson's disease. NeuroImage, 2021, 230, 117810.	4.2	34
107	Peripheral nerve magnetic resonance imaging. F1000Research, 2019, 8, 1803.	1.6	34
108	Efficacy of slow infusion of gadolinium contrast agent in three-dimensional MR coronary artery imaging. Journal of Magnetic Resonance Imaging, 1999, 10, 800-805.	3.4	33

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109	Partial Fourier imaging in multi-dimensions: A means to save a full factor of two in time. Journal of Magnetic Resonance Imaging, 2001, 14, 628-635.	3.4	33
110	Quantitative Analysis of Clinical Dynamic Contrast-enhanced MR Imaging for Evaluating Treatment Response in Human Breast Cancer. Radiology, 2010, 257, 47-55.	7.3	33
111	Quantifying the changes in oxygen extraction fraction and cerebral activity caused by caffeine and acetazolamide. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 825-836.	4.3	33
112	Predicting BOLD signal changes as a function of blood volume fraction and resolution. NMR in Biomedicine, 2001, 14, 468-477.	2.8	32
113	Characteristics of flow through the internal jugular veins at cervical C2/C3 and C5/C6 levels for multiple sclerosis patients using MR phase contrast imaging. Neurological Research, 2012, 34, 802-809.	1.3	32
114	Assessment of cerebral blood flow reserve using functional magnetic resonance imaging. Journal of Magnetic Resonance Imaging, 1996, 6, 718-725.	3.4	31
115	Chronic cerebral spinal venous insufficiency in multiple sclerosis. Expert Review of Neurotherapeutics, 2011, 11, 5-9.	2.8	31
116	In Vivo Measurement of Oxygenation Changes after Stroke Using Susceptibility Weighted Imaging Filtered Phase Data. PLoS ONE, 2013, 8, e63013.	2.5	31
117	Measuring venous blood oxygenation in fetal brain using susceptibilityâ€weighted imaging. Journal of Magnetic Resonance Imaging, 2014, 39, 998-1006.	3.4	31
118	A Novel Multiparametric Approach to 3D Quantitative MRI of the Brain. PLoS ONE, 2015, 10, e0134963.	2.5	31
119	Carotid plaque formation and its evaluation with angiography, ultrasound, and MR angiography. Journal of Magnetic Resonance Imaging, 1994, 4, 515-527.	3.4	30
120	Effects of variable blast pressures on blood flow and oxygen saturation in rat brain as evidenced using MRI. Magnetic Resonance Imaging, 2012, 30, 527-534.	1.8	30
121	Amide proton transfer magnetic resonance imaging in detecting intracranial hemorrhage at different stages: a comparative study with susceptibility weighted imaging. Scientific Reports, 2017, 7, 45696.	3.3	30
122	Susceptibility weighted imaging in acute cerebral ischemia: review of emerging technical concepts and clinical applications. Neuroradiology Journal, 2017, 30, 109-119.	1.2	29
123	Quantitative measurement of brain iron deposition in patients with haemodialysis using susceptibility mapping. Metabolic Brain Disease, 2015, 30, 563-571.	2.9	28
124	Accuracy of T1 measurements at high temporal resolution: Feasibility of dynamic measurement of blood T1 after contrast administration. Journal of Magnetic Resonance Imaging, 1999, 10, 576-581.	3.4	27
125	Quantitative Flow Measurements in the Internal Jugular Veins of Multiple Sclerosis Patients Using Magnetic Resonance Imaging. Reviews on Recent Clinical Trials, 2012, 7, 117-126.	0.8	27
126	Susceptibility weighted imaging and quantitative susceptibility mapping of the cerebral vasculature using ferumoxytol. Journal of Magnetic Resonance Imaging, 2018, 47, 621-633.	3.4	27

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127	Magnetic resonance imaging signatures of vascular pathology in multiple sclerosis. Neurological Research, 2012, 34, 780-792.	1.3	26
128	Noncontrastâ€enhanced magnetic resonance angiography and venography imaging with enhanced angiography. Journal of Magnetic Resonance Imaging, 2013, 38, 1539-1548.	3.4	26
129	A fully flow-compensated multiecho susceptibility-weighted imaging sequence: The effects of acceleration and background field on flow compensation. Magnetic Resonance in Medicine, 2016, 76, 478-489.	3.0	26
130	Modified iterative model based on data extrapolation method to reduce Gibbs ringing. Journal of Magnetic Resonance Imaging, 1991, 1, 307-317.	3.4	25
131	Geometric distortion correction in gradient-echo imaging by use of dynamic time warping. Magnetic Resonance in Medicine, 1999, 42, 585-590.	3.0	25
132	Jugular Venous Flow Abnormalities in Multiple Sclerosis Patients Compared to Normal Controls. Journal of Neuroimaging, 2015, 25, 600-607.	2.0	25
133	Determination of detection sensitivity for cerebral microbleeds using susceptibilityâ€weighted imaging. NMR in Biomedicine, 2017, 30, e3551.	2.8	25
134	Automated local maximum-intensity projection with three-dimensional vessel tracking. Journal of Magnetic Resonance Imaging, 1992, 2, 519-526.	3.4	24
135	Increased susceptibility of asymmetrically prominent cortical veins correlates with misery perfusion in patients with occlusion of the middle cerebral artery. European Radiology, 2017, 27, 2381-2390.	4.5	24
136	The Role of Venous Abnormalities in Neurological Disease. Reviews on Recent Clinical Trials, 2012, 7, 100-116.	0.8	23
137	Using Magnetic Resonance Imaging as a Means to Study Chronic Cerebral Spinal Venous Insufficiency in Multiple Sclerosis Patients. Techniques in Vascular and Interventional Radiology, 2012, 15, 101-112.	1.0	23
138	An interleaved sequence for simultaneous magnetic resonance angiography (MRA), susceptibility weighted imaging (SWI) and quantitative susceptibility mapping (QSM). Magnetic Resonance Imaging, 2018, 47, 1-6.	1.8	23
139	Evaluating Hemorrhage in Renal Cell Carcinoma Using Susceptibility Weighted Imaging. PLoS ONE, 2013, 8, e57691.	2.5	22
140	A Pilot Study of Hypofractionated Stereotactic Radiation Therapy and Sunitinib in Previously Irradiated Patients With Recurrent High-Grade Glioma. International Journal of Radiation Oncology Biology Physics, 2014, 90, 369-375.	0.8	22
141	Oxidation-Responsive, Eu^{II/III}-Based, Multimodal Contrast Agent for Magnetic Resonance and Photoacoustic Imaging. ACS Omega, 2017, 2, 800-805.	3.5	22
142	Dependence of vessel area accuracy and precision as a function of MR imaging parameters and boundary detection algorithm. Journal of Magnetic Resonance Imaging, 2007, 25, 1226-1234.	3.4	21
143	Detection of normal spinal veins by using susceptibilityâ€weighted imaging. Journal of Magnetic Resonance Imaging, 2010, 31, 32-38.	3.4	21
144	The role of susceptibility weighted imaging in functional MRI. NeuroImage, 2012, 62, 923-929.	4.2	21

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145	Improving Signal-to-Noise Ratio in Susceptibility Weighted Imaging: A Novel Multicomponent Non-Local Approach. PLoS ONE, 2015, 10, e0126835.	2.5	21
146	VC-Net: Deep Volume-Composition Networks for Segmentation and Visualization of Highly Sparse and Noisy Image Data. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 1301-1311.	4.4	21
147	Rapid multicontrast brain imaging on a 0.35T MRâ€linac. Medical Physics, 2020, 47, 4064-4076.	3.0	21
148	Dynamic Contrast-Enhanced Magnet Resonance Imaging of Sunitinib-Induced Vascular Changes to Schedule Chemotherapy in Renal Cell Carcinoma Xenograft Tumors. Translational Oncology, 2010, 3, 293-306.	3.7	20
149	Quantitative susceptibility mapping of small objects using volume constraints. Magnetic Resonance in Medicine, 2013, 69, 716-723.	3.0	20
150	Vestibular, balance, microvascular and white matter neuroimaging characteristics of blast injuries and mild traumatic brain injury: Four case reports. Brain Injury, 2016, 30, 1501-1514.	1.2	20
151	Optimizing neuromelanin contrast in the substantia nigra and locus coeruleus using a magnetization transfer contrast prepared 3D gradient recalled echo sequence. NeuroImage, 2020, 218, 116935.	4.2	20
152	Iron Content in Deep Gray Matter as a Function of Age Using Quantitative Susceptibility Mapping: A Multicenter Study. Frontiers in Neuroscience, 2020, 14, 607705.	2.8	20
153	A complex sum method of quantifying susceptibilities in cylindrical objects: the first step toward quantitative diagnosis of small objects in MRI. Magnetic Resonance Imaging, 2007, 25, 1171-1180.	1.8	19
154	MR venography of the fetal brain using susceptibility weighted imaging. Journal of Magnetic Resonance Imaging, 2014, 40, 949-957.	3.4	19
155	Decreased susceptibility of major veins in mild traumatic brain injury is correlated with post-concussive symptoms: A quantitative susceptibility mapping study. NeuroImage: Clinical, 2017, 15, 625-632.	2.7	19
156	A guide to understanding key aspects of fast gradient-echo imaging. Journal of Magnetic Resonance Imaging, 1991, 1, 621-624.	3.4	18
157	Commutator filter: A novel technique for the identification of structures producing significant susceptibility inhomogeneities and its application to functional MRI. Magnetic Resonance in Medicine, 1996, 36, 781-787.	3.0	18
158	Spinal Arteriovenous Malformation: Evaluation of Change in Venous Oxygenation with Susceptibility-weighted MR Imaging after Treatment. Radiology, 2010, 254, 891-899.	7.3	18
159	Quantitative measurements of brain iron deposition in cirrhotic patients using susceptibility mapping. Acta Radiologica, 2015, 56, 339-346.	1.1	18
160	Iron quantification in Parkinson's disease using an age-based threshold on susceptibility maps: The advantage of local versus entire structure iron content measurements. Magnetic Resonance Imaging, 2019, 55, 145-152.	1.8	18
161	Visualizing the lateral habenula using susceptibility weighted imaging and quantitative susceptibility mapping. Magnetic Resonance Imaging, 2020, 65, 55-61.	1.8	18
162	Susceptibility Weighted Imaging (SWI). Zeitschrift Fur Medizinische Physik, 2006, 16, 237.	1.5	17

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163	Quantifying effective magnetic moments of narrow cylindrical objects in MRI. Physics in Medicine and Biology, 2009, 54, 7025-7044.	3.0	17
164	Quantification of liver iron concentration using the apparent susceptibility of hepatic vessels. Quantitative Imaging in Medicine and Surgery, 2018, 8, 123-134.	2.0	17
165	Subvoxel vascular imaging of the midbrain using USPIO-Enhanced MRI. NeuroImage, 2020, 220, 117106.	4.2	17
166	Lumen definition in MR angiography. Journal of Magnetic Resonance Imaging, 1991, 1, 327-336.	3.4	16
167	An iterative reconstruction technique for geometric distortion-corrected segmented echo-planar imaging. Magnetic Resonance Imaging, 2008, 26, 1406-1414.	1.8	16
168	A longitudinal study of placental perfusion using dynamic contrast enhanced magnetic resonance imaging in murine pregnancy. Placenta, 2016, 43, 90-97.	1.5	16
169	Normal macromolecular clearance out of the ventricles is delayed in hydrocephalus. Brain Research, 2018, 1678, 337-355.	2.2	16
170	Imaging of stroke: a comparison between X-ray fluorescence and magnetic resonance imaging methods. Magnetic Resonance Imaging, 2012, 30, 1416-1423.	1.8	15
171	A comparative study of magnetic resonance venography techniques for the evaluation of the internal jugular veins in multiple sclerosis patients. Magnetic Resonance Imaging, 2013, 31, 1668-1676.	1.8	15
172	Automated White Matter Hyperintensity Detection in Multiple Sclerosis Using 3D T2 FLAIR. International Journal of Biomedical Imaging, 2014, 2014, 1-7.	3.9	15
173	An improved method for susceptibility and radius quantification of cylindrical objects from MRI. Magnetic Resonance Imaging, 2015, 33, 420-436.	1.8	15
174	The relation between cognitive dysfunction and diffusion tensor imaging parameters in traumatic brain injury. Brain Injury, 2019, 33, 355-363.	1.2	15
175	Quantitative Susceptibility Mapping for Characterization of Intraplaque Hemorrhage and Calcification in Carotid Atherosclerotic Disease. Journal of Magnetic Resonance Imaging, 2020, 52, 534-541.	3.4	15
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