Walter H Backes

List of Publications by Year
in descending order

193 papers	8,466 citations	31949 53 h-index	64755 79 g-index
198 all docs	198 docs citations	198 times ranked	12166 citing authors

#	Article	IF	Citations
1	Extracerebral microvascular dysfunction is related to brain MRI markers of cerebral small vessel disease: The Maastricht Study. GeroScience, 2022, 44, 147-157.	2.1	10
2	Assessment of microvascular rarefaction in human brain disorders using physiological magnetic resonance imaging. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 718-737.	2.4	12
3	The Hyperintense study: Assessing the effects of induced blood pressure increase and decrease on MRI markers of cerebral small vessel disease: Study rationale and protocol. European Stroke Journal, 2022, 7, 331-338.	2.7	2
4	Neuroimaging of Anxiety in Parkinson's Disease: A Systematic Review. Movement Disorders, 2021, 36, 327-339.	2.2	71
5	A Comprehensive View on MRI Techniques for Imaging Blood-Brain Barrier Integrity. Investigative Radiology, 2021, 56, 10-19.	3.5	23
6	Estimating myelin-water content from anatomical and diffusion images using spatially undersampled myelin-water imaging through machine learning. NeuroImage, 2021, 226, 117626.	2.1	4
7	Interplay of White Matter Hyperintensities, Cerebral Networks, and Cognitive Function in an Adult Population: Diffusion-Tensor Imaging in the Maastricht Study. Radiology, 2021, 298, 384-392.	3.6	23
8	Timeâ€efficient measurement of subtle bloodâ€“brain barrier leakage using a T₁ mapping MRI protocol at 7 T. Magnetic Resonance in Medicine, 2021, 85, 2761-2770.	1.9	5
9	Predictive value of functional MRI and EEG in epilepsy diagnosis after a first seizure. Epilepsy and Behavior, 2021, 115, 107651.	0.9	9
10	Baseline Blood-Brain Barrier Leakage and Longitudinal Microstructural Tissue Damage in the Periphery of White Matter Hyperintensities. Neurology, 2021, 96, e2192-e2200.	1.5	22
11	Sources of systematic error in DCEâ€MRI estimation of lowâ€level bloodâ€brain barrier leakage. Magnetic Resonance in Medicine, 2021, 86, 1888-1903.	1.9	21
12	Bloodâ€“brain barrier leakage at baseline and cognitive decline in cerebral small vessel disease: a 2-year follow-up study. GeroScience, 2021, 43, 1643-1652.	2.1	27
13	7T dynamic contrastâ€enhanced MRI for the detection of subtle bloodâ€“brain barrier leakage. Journal of Neuroimaging, 2021, 31, 902-911.	1.0	7
14	Application of contrast-enhanced magnetic resonance imaging in the assessment of blood-cerebrospinal fluid barrier integrity. Neuroscience and Biobehavioral Reviews, 2021, 127, 171-183.	2.9	8
15	Quality control strategies for brain MRI segmentation and parcellation: Practical approaches and recommendations - insights from the Maastricht study. NeuroImage, 2021, 237, 118174.	2.1	37
16	Association of Type 2 Diabetes, According to the Number of Risk Factors Within Target Range, With Structural Brain Abnormalities, Cognitive Performance, and Risk of Dementia. Diabetes Care, 2021, 44, 2493-2502.	4.3	16
17	Associations of increased interstitial fluid with vascular and neurodegenerative abnormalities in a memory clinic sample. Neurobiology of Aging, 2021, 106, 257-267.	1.5	12
18	Imaging neurovascular, endothelial and structural integrity in preparation to treat small vessel diseases. The INVESTIGATE-SVDs study protocol. Part of the SVDs@Target project. Cerebral Circulation - Cognition and Behavior, 2021, 2, 100020.	0.4	8

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19	White matter network structure as a substrate of cognitive brain reserve in cerebral smallâ€vessel disease: The Maastricht Study. Alzheimer's and Dementia, 2021, 17, .	0.4	0
20	White matter hyperintensities mediate the association between blood-brain barrier leakage and information processing speed. Neurobiology of Aging, 2020, 85, 113-122.	1.5	42
21	White Matter Connectivity Abnormalities in Prediabetes and Type 2 Diabetes: The Maastricht Study. Diabetes Care, 2020, 43, 201-208.	4.3	29
22	Spectral Diffusion Analysis of Intravoxel Incoherent Motion MRI in Cerebral Small Vessel Disease. Journal of Magnetic Resonance Imaging, 2020, 51, 1170-1180.	1.9	25
23	Microvascular Dysfunction Is Associated With Worse Cognitive Performance. Hypertension, 2020, 75, 237-245.	1.3	47
24	Imaging the role of bloodâ€“brain barrier disruption in normal cognitive ageing. GeroScience, 2020, 42, 1751-1764.	2.1	42
25	Increase in bloodâ€“brain barrier leakage in healthy, older adults. GeroScience, 2020, 42, 1183-1193.	2.1	96
26	CSF enhancement on post-contrast fluid-attenuated inversion recovery images; a systematic review. NeuroImage: Clinical, 2020, 28, 102456.	1.4	12
27	Blood pressure variability and microvascular dysfunction: the Maastricht Study. Journal of Hypertension, 2020, 38, 1541-1550.	0.3	11
28	Permeability of the windows of the brain: feasibility of dynamic contrast-enhanced MRI of the circumventricular organs. Fluids and Barriers of the CNS, 2020, 17, 66.	2.4	9
29	Vascular and neurodegenerative imaging markers are associated with increased interstitial fluid diffusion in memory clinic patients. Alzheimer's and Dementia, 2020, 16, e039700.	0.4	0
30	Functional brain network characteristics are associated with epilepsy severity in childhood absence epilepsy. NeuroImage: Clinical, 2020, 27, 102264.	1.4	9
31	Volumetric and Functional Activity Lateralization in Healthy Subjects and Patients with Focal Epilepsy: Initial Findings in a 7T MRI Study. Journal of Neuroimaging, 2020, 30, 666-673.	1.0	8
32	On the merits of non-invasive myelin imaging in epilepsy, a literature review. Journal of Neuroscience Methods, 2020, 338, 108687.	1.3	27
33	Microvascular Phenotyping in the Maastricht Study: Design and Main Findings, 2010â€“2018. American Journal of Epidemiology, 2020, 189, 873-884.	1.6	23
34	Spectral Diffusion Analysis of Intravoxel Incoherent Motion MRI in Cerebral Small Vessel Disease. Journal of Magnetic Resonance Imaging, 2020, 51, spcone.	1.9	1
35	Constructing an Axonalâ€Specific Myelin Developmental Graph and its Application to Childhood Absence Epilepsy. Journal of Neuroimaging, 2020, 30, 308-314.	1.0	5
36	Associations of Arterial Stiffness With Cognitive Performance, and the Role of Microvascular Dysfunction. Hypertension, 2020, 75, 1607-1614.	1.3	29

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37	Cardiometabolic determinants of early and advanced brain alterations: Insights from conventional and novel MRI techniques. Neuroscience and Biobehavioral Reviews, 2020, 115, 308-320.	2.9	7
38	Optimal Detection of Subtle Gadolinium Leakage in CSF with Heavily T2-Weighted Fluid-Attenuated Inversion Recovery Imaging. American Journal of Neuroradiology, 2019, 40, 1481-1483.	1.2	6
39	Lower myelinâ€water content of the frontal lobe in childhood absence epilepsy. Epilepsia, 2019, 60, 1689-1696.	2.6	22
40	Blood-Brain Barrier Leakage and Microvascular Lesions in Cerebral Amyloid Angiopathy. Stroke, 2019, 50, 328-335.	1.0	58
41	Quantifying bloodâ€brain barrier leakage in small vessel disease: Review and consensus recommendations. Alzheimer's and Dementia, 2019, 15, 840-858.	0.4	134
42	Harmonizing brain magnetic resonance imaging methods for vascular contributions to neurodegeneration. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2019, 11, 191-204.	1.2	65
43	Blood-brain barrier impairment and hypoperfusion are linked in cerebral small vessel disease. Neurology, 2019, 92, e1669-e1677.	1.5	126
44	Applicability and reproducibility of 2D multi-slice GRASE myelin water fraction with varying acquisition acceleration. NeuroImage, 2019, 195, 333-339.	2.1	28
45	P4â€577: OPTIMAL DETECTION OF SUBTLE GADOLINIUM LEAKAGE IN CEREBROSPINAL FLUID WITH HEAVILY T2â€WEIGHTED FLUIDâ€ATTENUATED INVERSION RECOVERY IMAGING. Alzheimer's and Dementia, 2019, 15, P1541.	0.4	0
46	Bloodâ€“brain barrier leakage in relation to white matter hyperintensity volume and cognition in small vessel disease and normal aging. Brain Imaging and Behavior, 2019, 13, 389-395.	1.1	74
47	High field imaging of large-scale neurotransmitter networks: Proof of concept and initial application to epilepsy. NeuroImage: Clinical, 2018, 19, 47-55.	1.4	13
48	Brain restingâ€state networks in adolescents with highâ€functioning autism: Analysis of spatial connectivity and temporal neurodynamics. Brain and Behavior, 2018, 8, e00878.	1.0	24
49	Glutamate quantification by PRESS or MEGA-PRESS: Validation, repeatability, and concordance. Magnetic Resonance Imaging, 2018, 48, 107-114.	1.0	35
50	Advanced and amplified BOLD fluctuations in highâ€grade gliomas. Journal of Magnetic Resonance Imaging, 2018, 47, 1616-1625.	1.9	12
51	Working memory network alterations in highâ€functioning adolescents with an autism spectrum disorder. Psychiatry and Clinical Neurosciences, 2018, 72, 73-83.	1.0	22
52	On the Reproducibility of Inversion Recovery Intravoxel Incoherent Motion Imaging in Cerebrovascular Disease. American Journal of Neuroradiology, 2018, 39, 226-231.	1.2	11
53	ICâ€Pâ€051: BLOODâ€BRAIN BARRIER LEAKAGE AND MICROVASCULAR LESIONS IN CEREBRAL AMYLOID ANGIOPATHY: A POSTMORTEM MRI AND HISTOPATHOLOGY STUDY. Alzheimer's and Dementia, 2018, 14, P50.	0.4	0
54	P2â€479: BLOODâ€BRAIN BARRIER LEAKAGE AND MICROVASCULAR LESIONS IN CEREBRAL AMYLOID ANGIOPATHY: A POSTMORTEM MRI AND HISTOPATHOLOGY STUDY. Alzheimer's and Dementia, 2018, 14, P909.	0.4	0

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55	P1â€466: ON THE LINK BETWEEN BLOODâ€BRAIN BARRIER LEAKAGE, WHITE MATTER HYPERINTENSITIES, NEURODEGENERATION, AND COGNITION. Alzheimer's and Dementia, 2018, 14, P499.	0.4	0
56	A new analysis approach for T2relaxometry myelin water quantification: Orthogonal Matching Pursuit. Magnetic Resonance in Medicine, 2018, 81, 3292-3303.	1.9	12
57	Impact of prompt gamma coincidence correction on absorbed dose estimation in differentiated thyroid cancer using 124I PET/CT imaging. Nuclear Medicine Communications, 2018, 39, 1156-1164.	0.5	3
58	ICâ€Pâ€088: ON THE LINK BETWEEN BLOODâ€BRAIN BARRIER LEAKAGE, WHITE MATTER HYPERINTENSITIES, NEURODEGENERATION, AND COGNITION. Alzheimer's and Dementia, 2018, 14, P74.	0.4	0
59	Blood-Brain Barrier Dysfunction in Small Vessel Disease Related Intracerebral Hemorrhage. Frontiers in Neurology, 2018, 9, 926.	1.1	23
60	Structural covariance networks relate to the severity of epilepsy with focal-onset seizures. NeuroImage: Clinical, 2018, 20, 861-867.	1.4	11
61	Prediabetes Is Associated With Structural Brain Abnormalities: The Maastricht Study. Diabetes Care, 2018, 41, 2535-2543.	4.3	68
62	Abnormal Blood Oxygen Levelâ€"Dependent Fluctuations in Focal Cortical Dysplasia and the Perilesional Zone: Initial Findings. American Journal of Neuroradiology, 2018, 39, 1310-1315.	1.2	11
63	Towards prognostic biomarkers from BOLD fluctuations to differentiate a first epileptic seizure from newâ€onset epilepsy. Epilepsia, 2017, 58, 476-483.	2.6	15
64	Measuring subtle leakage of the blood-brain barrier in cerebrovascular disease with DCE-MRI: Test-retest reproducibility and its influencing factors. Journal of Magnetic Resonance Imaging, 2017, 46, 159-166.	1.9	34
65	Intravoxel Incoherent Motion Imaging in Small Vessel Disease. Stroke, 2017, 48, 658-663.	1.0	25
66	Simultaneous investigation of microvasculature and parenchyma in cerebral small vessel disease using intravoxel incoherent motion imaging. NeuroImage: Clinical, 2017, 14, 216-221.	1.4	32
67	Subtle bloodâ€brain barrier leakage rate and spatial extent: Considerations for dynamic contrastâ€enhanced <scp>MRI</scp>. Medical Physics, 2017, 44, 4112-4125.	1.6	75
68	Wavelet entropy of BOLD time series: An application to Rolandic epilepsy. Journal of Magnetic Resonance Imaging, 2017, 46, 1728-1737.	1.9	11
69	Bloodâ€"brain barrier leakage is more widespread in patients with cerebral small vessel disease. Neurology, 2017, 88, 426-432.	1.5	161
70	Non-invasive assessment of microvascular dysfunction in patients with microvascular angina. International Journal of Cardiology, 2017, 248, 433-439.	0.8	23
71	Pericortical Enhancement on Delayed Postgadolinium Fluid-Attenuated Inversion Recovery Images in Normal Aging, Mild Cognitive Impairment, and Alzheimer Disease. American Journal of Neuroradiology, 2017, 38, 1742-1747.	1.2	27
72	Pulsatility of Lenticulostriate Arteries Assessed by 7 Tesla Flow MRIâ€"Measurement, Reproducibility, and Applicability to Aging Effect. Frontiers in Physiology, 2017, 8, 961.	1.3	39

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73	Cerebral Pathology and Cognition in Diabetes: The Merits of Multiparametric Neuroimaging. Frontiers in Neuroscience, 2017, 11, 188.	1.4	23
74	Chronic antiepileptic drug use and functional network efficiency: A functional magnetic resonance imaging study. World Journal of Radiology, 2017, 9, 287.	0.5	19
75	Young and Middle-Aged Schoolteachers Differ in the Neural Correlates of Memory Encoding and Cognitive Fatigue: A Functional MRI Study. Frontiers in Human Neuroscience, 2016, 10, 148.	1.0	9
76	Cerebral blood flow, blood supply, and cognition in Type 2 Diabetes Mellitus. Scientific Reports, 2016, 6, 10.	1.6	178
77	White Matter Hyperintensities Potentiate Hippocampal Volume Reduction in Non-Demented Older Individuals with Abnormal Amyloid-Î². Journal of Alzheimer's Disease, 2016, 55, 333-342.	1.2	16
78	ICâ€Pâ€126: Leptomeningeal Bloodâ€Brain Barrier Leakage is Associated With Cerebrovascular Damage in Mild Cognitive Impairment and Alzheimerâ€™s Disease. Alzheimer's and Dementia, 2016, 12, P93.	0.4	0
79	P3â€247: Leptomeningeal Bloodâ€Brain Barrier Leakage is Associated with Cerebrovascular Damage in Mild Cognitive Impairment and Alzheimerâ€™S Disease. Alzheimer's and Dementia, 2016, 12, P923.	0.4	0
80	Functional Brain Networks Are Altered in Type 2 Diabetes and Prediabetes: Signs for Compensation of Cognitive Decrements? The Maastricht Study. Diabetes, 2016, 65, 2404-2413.	0.3	57
81	Glutamate concentrations vary with antiepileptic drug use and mental slowing. Epilepsy and Behavior, 2016, 64, 200-205.	0.9	9
82	Neurovascular unit impairment in early Alzheimer's disease measured with magnetic resonance imaging. Neurobiology of Aging, 2016, 45, 190-196.	1.5	146
83	Blood-Brain Barrier Leakage in Patients with Early Alzheimer Disease. Radiology, 2016, 281, 527-535.	3.6	411
84	Inter-reader reproducibility of dynamic contrast-enhanced magnetic resonance imaging in patients with non-small cell lung cancer treated with bevacizumab and erlotinib. Lung Cancer, 2016, 93, 20-27.	0.9	2
85	Doseâ€“Response Relationship in Differentiated Thyroid Cancer Patients Undergoing Radioiodine Treatment Assessed by Means of ¹²⁴I PET/CT. Journal of Nuclear Medicine, 2016, 57, 1027-1032.	2.8	66
86	Autonomic nervous system functioning associated with psychogenic nonepileptic seizures: Analysis of heart rate variability. Epilepsy and Behavior, 2016, 54, 14-19.	0.9	38
87	CT texture analysis in colorectal liver metastases: A better way than size and volume measurements to assess response to chemotherapy?. United European Gastroenterology Journal, 2016, 4, 257-263.	1.6	99
88	Abnormal Profiles of Local Functional Connectivity Proximal to Focal Cortical Dysplasias. PLoS ONE, 2016, 11, e0166022.	1.1	15
89	On the Interplay of Microvasculature, Parenchyma, and Memory in Type 2 Diabetes. Diabetes Care, 2015, 38, 876-882.	4.3	32
90	Metabolic and functional MR biomarkers of antiepileptic drug effectiveness: A review. Neuroscience and Biobehavioral Reviews, 2015, 59, 92-99.	2.9	23

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91	Bloodâ€“brain barrier impairment in dementia: Current and future in vivo assessments. Neuroscience and Biobehavioral Reviews, 2015, 49, 71-81.	2.9	51
92	Visuospatial processing in early Alzheimerâ€™s disease: AÂmultimodal neuroimaging study. Cortex, 2015, 64, 394-406.	1.1	42
93	Functional and Structural Network Impairment in Childhood Frontal Lobe Epilepsy. PLoS ONE, 2014, 9, e90068.	1.1	49
94	Delayed convergence between brain network structure and function in rolandic epilepsy. Frontiers in Human Neuroscience, 2014, 8, 704.	1.0	36
95	Quantitative MR and cognitive impairment in cryptogenic localisation-related epilepsy. Epileptic Disorders, 2014, 16, 318-327.	0.7	3
96	Wholeâ€liver CT texture analysis in colorectal cancer: Does the presence of liver metastases affect the texture of the remaining liver?. United European Gastroenterology Journal, 2014, 2, 530-538.	1.6	56
97	Neurophysiological correlates of dissociative symptoms. Journal of Neurology, Neurosurgery and Psychiatry, 2014, 85, 174-179.	0.9	47
98	Working memory in middle-aged males: Age-related brain activation changes and cognitive fatigue effects. Biological Psychology, 2014, 96, 134-143.	1.1	21
99	Efficacy of Radiation Safety Glasses in Interventional Radiology. CardioVascular and Interventional Radiology, 2014, 37, 1149-1155.	0.9	79
100	Quantification of abdominal aortic aneurysm wall enhancement with dynamic contrast-enhanced MRI: Feasibility, reproducibility, and initial experience. Journal of Magnetic Resonance Imaging, 2014, 39, 1449-1456.	1.9	16
101	Spatial heterogeneity analysis of brain activation in fMRI. NeuroImage: Clinical, 2014, 5, 266-276.	1.4	12
102	Resting-state networks and dissociation in psychogenic non-epileptic seizures. Journal of Psychiatric Research, 2014, 54, 126-133.	1.5	95
103	Magnetic Resonance Imaging-derived Arterial Peak Flow in Peripheral Arterial Disease: Towards a Standardized Measurement. European Journal of Vascular and Endovascular Surgery, 2014, 48, 185-192.	0.8	7
104	Functional MRI in Peripheral Arterial Disease: Arterial Peak Flow versus Ankle-Brachial Index. PLoS ONE, 2014, 9, e88471.	1.1	5
105	Mapping the Vasculature of the Spinal Cord. , 2014, , 258-264.		0
106	Gadofosveset-enhanced MRI for the assessment of rectal cancer lymph nodes: predictive criteria. Abdominal Imaging, 2013, 38, 720-727.	2.0	49
107	Working memory deficits in high-functioning adolescents with autism spectrum disorders: neuropsychological and neuroimaging correlates. Journal of Neurodevelopmental Disorders, 2013, 5, 14.	1.5	148
108	Combined ¹⁸ F-FDG PET-CT and DCE-MRI to Assess Inflammation and Microvascularization in Atherosclerotic Plaques. Stroke, 2013, 44, 3568-3570.	1.0	62

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109	Aberrant functional connectivity between motor and language networks in rolandic epilepsy. Epilepsy Research, 2013, 107, 253-262.	0.8	65
110	Clinical evaluation of language fundamentals in Rolandic epilepsy, an assessment with CELF-4. European Journal of Paediatric Neurology, 2013, 17, 390-396.	0.7	44
111	Magnetic resonance imaging-based monitoring ofÂcollateral artery development in patients with intermittent claudication during supervised exercise therapy. Journal of Vascular Surgery, 2013, 58, 1236-1243.	0.6	9
112	Early onset of cortical thinning in children with rolandic epilepsy. NeuroImage: Clinical, 2013, 2, 434-439.	1.4	64
113	Reduced functional integration of the sensorimotor and language network in rolandic epilepsy. NeuroImage: Clinical, 2013, 2, 239-246.	1.4	63
114	Dynamic Contrast-enhanced MR Imaging of Carotid Atherosclerotic Plaque: Model Selection, Reproducibility, and Validation. Radiology, 2013, 266, 271-279.	3.6	79
115	Imaging Cold-Activated Brown Adipose Tissue Using Dynamic T2*-Weighted Magnetic Resonance Imaging and 2-Deoxy-2-[18F]fluoro-D-glucose Positron Emission Tomography. Investigative Radiology, 2013, 48, 708-714.	3.5	73
116	Frontal lobe connectivity and cognitive impairment in pediatric frontal lobe epilepsy. Epilepsia, 2013, 54, 446-454.	2.6	86
117	Amyloid-Î² Interacts with Blood-Brain Barrier Function in Dementia: A Systematic Review. Journal of Alzheimer's Disease, 2013, 35, 859-873.	1.2	38
118	Brain Imaging in Chronic Epilepsy Patients After Depth Electrode (Stereoelectroencephalography) Implantation. Neurosurgery, 2013, 73, 543-549.	0.6	26
119	Clinical Perspectives of Hybrid Proton-Fluorine Magnetic Resonance Imaging and Spectroscopy. Investigative Radiology, 2013, 48, 341-350.	3.5	24
120	Suitability of Pharmacokinetic Models for Dynamic Contrast-Enhanced MRI of Abdominal Aortic Aneurysm Vessel Wall: A Comparison. PLoS ONE, 2013, 8, e75173.	1.1	15
121	Reduced Structural Connectivity between Sensorimotor and Language Areas in Rolandic Epilepsy. PLoS ONE, 2013, 8, e83568.	1.1	35
122	White Matter Network Abnormalities Are Associated with Cognitive Decline in Chronic Epilepsy. Cerebral Cortex, 2012, 22, 2139-2147.	1.6	127
123	The Effects of Sustained Cognitive Task Performance on Subsequent Resting State Functional Connectivity in Healthy Young and Middle-Aged Male Schoolteachers. Brain Connectivity, 2012, 2, 102-112.	0.8	20
124	Discrimination of Healthy and Glaucomatous Eyes Based on the Ocular Pulse Amplitude: A Diagnostic Case-Control Study. Ophthalmic Research, 2012, 48, 1-5.	1.0	7
125	Microstructural and functional MRI studies of cognitive impairment in epilepsy. Epilepsia, 2012, 53, 1690-1699.	2.6	24
126	Structural and Resting State Functional Connectivity of the Subthalamic Nucleus: Identification of Motor STN Parts and the Hyperdirect Pathway. PLoS ONE, 2012, 7, e39061.	1.1	114

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127	Functional connectivity of dissociation in patients with psychogenic non-epileptic seizures. Journal of Neurology, Neurosurgery and Psychiatry, 2012, 83, 239-247.	0.9	172
128	Cognitive and behavioural findings in children with frontal lobe epilepsy. European Journal of Paediatric Neurology, 2012, 16, 707-715.	0.7	44
129	Tract Specific Reproducibility of Tractography Based Morphology and Diffusion Metrics. PLoS ONE, 2012, 7, e34125.	1.1	57
130	Dynamic Contrast-Enhanced MRI Assessment of Hyperemic Fractional Microvascular Blood Plasma Volume in Peripheral Arterial Disease: Initial Findings. PLoS ONE, 2012, 7, e37756.	1.1	12
131	Automated multiscale vessel analysis for the quantification of MR angiography of peripheral arteriogenesis. Journal of Magnetic Resonance Imaging, 2012, 35, 379-386.	1.9	3
132	MRI of Arterial Flow Reserve in Patients with Intermittent Claudication: Feasibility and Initial Experience. PLoS ONE, 2012, 7, e31514.	1.1	9
133	Towards Endometriosis Diagnosis by Gadofosveset-Trisodium Enhanced Magnetic Resonance Imaging. PLoS ONE, 2012, 7, e33241.	1.1	21
134	Association between Frequency of Nocturnal Epilepsy and Language Disturbance in Children. Pediatric Neurology, 2011, 44, 333-339.	1.0	10
135	Magnetic Resonance Imaging in Peripheral Arterial Disease. Investigative Radiology, 2011, 46, 11-24.	3.5	61
136	Cognitive and behavioral complications of frontal lobe epilepsy in children: A review of the literature. Epilepsia, 2011, 52, 849-856.	2.6	78
137	Memory processes and prefrontal network dysfunction in cryptogenic epilepsy. Epilepsia, 2011, 52, 1467-1475.	2.6	38
138	MRI of renal oxygenation and function after normothermic ischemiaâ€“reperfusion injury. NMR in Biomedicine, 2011, 24, 194-200.	1.6	43
139	Monitoring Response to Antiangiogenic Therapy in Nonâ€“Small Cell Lung Cancer Using Imaging Markers Derived from PET and Dynamic Contrast-Enhanced MRI. Journal of Nuclear Medicine, 2011, 52, 48-55.	2.8	98
140	The precision of pharmacokinetic parameters in dynamic contrast-enhanced magnetic resonance imaging: the effect of sampling frequency and duration. Physics in Medicine and Biology, 2011, 56, 5665-5678.	1.6	25
141	MR Angiography of Collateral Arteries in a Hind Limb Ischemia Model: Comparison between Blood Pool Agent Gadomer and Small Contrast Agent Gd-DTPA. PLoS ONE, 2011, 6, e16159.	1.1	17
142	Magnetic Resonance Angiography of the Spinal Cord Blood Supply. , 2011, , 465-485.		0
143	Assessment of the Spinal Cord Vasculature with Magnetic Resonance Angiography. , 2011, , 161-171.		0
144	Optimized pharmacokinetic modeling for the detection of perfusion differences in skeletal muscle with DCEâ€MRI: Effect of contrast agent size. Medical Physics, 2010, 37, 5746-5755.	1.6	20

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145	Functional MRI in chronic epilepsy: associations with cognitive impairment. Lancet Neurology, The, 2010, 9, 1018-1027.	4.9	64
146	Pharmacokinetics of contrast agents targeted to the tumor vasculature in molecular magnetic resonance imaging. Contrast Media and Molecular Imaging, 2010, 5, 9-17.	0.4	13
147	Evaluation of magnetic resonance vessel size imaging by two-photon laser scanning microscopy. Magnetic Resonance in Medicine, 2010, 63, 930-939.	1.9	22
148	Gadoliniumâ€labeled quantum dots for molecular magnetic resonance imaging: R₁ versus R₂ mapping. Magnetic Resonance in Medicine, 2010, 64, 291-298.	1.9	18
149	Comparison Between Perfusion Computed Tomography and Dynamic Contrast-Enhanced Magnetic Resonance Imaging in Rectal Cancer. International Journal of Radiation Oncology Biology Physics, 2010, 77, 400-408.	0.4	30
150	Molecular Magnetic Resonance Imaging of Myocardial Angiogenesis After Acute Myocardial Infarction. Circulation, 2010, 121, 775-783.	1.6	71
151	Tumor perfusion increases during hypofractionated short-course radiotherapy in rectal cancer: Sequential perfusion-CT findings. Radiotherapy and Oncology, 2010, 94, 156-160.	0.3	31
152	Vessel Growth and Function: Depiction with Contrast-enhanced MR Imaging. Radiology, 2009, 251, 317-335.	3.6	50
153	Assessing and minimizing the effects of noise and motion in clinical DTI at 3 T. Human Brain Mapping, 2009, 30, 2641-2655.	1.9	44
154	Reliability of pharmacokinetic parameters: Small vs. mediumâ€sized contrast agents. Magnetic Resonance in Medicine, 2009, 62, 779-787.	1.9	30
155	Detection and characteristics of microvascular obstruction in reperfused acute myocardial infarction using an optimized protocol for contrast-enhanced cardiovascular magnetic resonance imaging. European Radiology, 2009, 19, 2904-2912.	2.3	52
156	Hippocampal MRI Volumetry at 3 Tesla. Investigative Radiology, 2009, 44, 509-517.	3.5	25
157	Short- and long-term limbic abnormalities after experimental febrile seizures. Neurobiology of Disease, 2008, 32, 293-301.	2.1	22
158	Magnetic resonance angiography of collateral blood supply to spinal cord in thoracic and thoracoabdominal aortic aneurysm patients. Journal of Vascular Surgery, 2008, 48, 261-271.	0.6	74
159	Cognitive fMRI and neuropsychological assessment in patients with secondarily generalized seizures. Clinical Neurology and Neurosurgery, 2008, 110, 441-450.	0.6	13
160	Quantitative Molecular Magnetic Resonance Imaging of Tumor Angiogenesis Using cNGR-Labeled Paramagnetic Quantum Dots. Cancer Research, 2008, 68, 7676-7683.	0.4	92
161	Impaired Collateral Recruitment and Outward Remodeling in Experimental Diabetes. Diabetes, 2008, 57, 2818-2823.	0.3	53
162	White Matter Lesions in Patients With Localization-Related Epilepsy. Investigative Radiology, 2008, 43, 552-558.	3.5	13

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163	Inlet Arteries or Outlet Veins of the Spinal Cord?. American Journal of Roentgenology, 2007, 189, W45-W45.	1.0	5
164	Reproducibility of Quantitative Cerebral T2 Relaxometry, Diffusion Tensor Imaging, and 1H Magnetic Resonance Spectroscopy at 3.0 Tesla. Investigative Radiology, 2007, 42, 327-337.	3.5	51
165	Assessment of Spinal Cord Circulation and Function in Endovascular Treatment of Thoracic Aortic Aneurysms. Annals of Thoracic Surgery, 2007, 83, S877-S881.	0.7	50
166	Representation of lateralization and tonotopy in primary versus secondary human auditory cortex. NeuroImage, 2007, 34, 264-273.	2.1	87
167	fMRI activation in relation to sound intensity and loudness. NeuroImage, 2007, 35, 709-718.	2.1	105
168	Enhanced signal detection in neuroimaging by means of regional control of the global false discovery rate. NeuroImage, 2007, 38, 43-56.	2.1	67
169	Comparison of magnetic resonance with computed tomography angiography for preoperative localization of the Adamkiewicz artery in thoracoabdominal aortic aneurysm patients. Journal of Vascular Surgery, 2007, 45, 677-685.	0.6	92
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