

Walter H Backes

List of Publications by Year in descending order

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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	Blood-Brain Barrier Leakage in Patients with Early Alzheimer Disease. <i>Radiology</i> , 2016, 281, 527-535.	3.6	411
2	1H MR Spectroscopy of the Brain: Absolute Quantification of Metabolites. <i>Radiology</i> , 2006, 240, 318-332.	3.6	371
3	Cerebral blood flow, blood supply, and cognition in Type 2 Diabetes Mellitus. <i>Scientific Reports</i> , 2016, 6, 10.	1.6	178
4	Functional connectivity of dissociation in patients with psychogenic non-epileptic seizures. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2012, 83, 239-247.	0.9	172
5	Blood-brain barrier leakage is more widespread in patients with cerebral small vessel disease. <i>Neurology</i> , 2017, 88, 426-432.	1.5	161
6	Working memory deficits in high-functioning adolescents with autism spectrum disorders: neuropsychological and neuroimaging correlates. <i>Journal of Neurodevelopmental Disorders</i> , 2013, 5, 14.	1.5	148
7	Neurovascular unit impairment in early Alzheimer's disease measured with magnetic resonance imaging. <i>Neurobiology of Aging</i> , 2016, 45, 190-196.	1.5	146
8	Quantifying blood-brain barrier leakage in small vessel disease: Review and consensus recommendations. <i>Alzheimer's and Dementia</i> , 2019, 15, 840-858.	0.4	134
9	Imaging in Spinal Vascular Disease. <i>Neuroimaging Clinics of North America</i> , 2007, 17, 57-72.	0.5	133
10	Lateralization, connectivity and plasticity in the human central auditory system. <i>NeuroImage</i> , 2005, 28, 490-499.	2.1	132
11	Dynamic contrast-enhanced magnetic resonance imaging of radiation therapy-induced microcirculation changes in rectal cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005, 63, 1309-1315.	0.4	128
12	White Matter Network Abnormalities Are Associated with Cognitive Decline in Chronic Epilepsy. <i>Cerebral Cortex</i> , 2012, 22, 2139-2147.	1.6	127
13	Blood-brain barrier impairment and hypoperfusion are linked in cerebral small vessel disease. <i>Neurology</i> , 2019, 92, e1669-e1677.	1.5	126
14	Evaluation of Gd(III)DTPA-terminated poly(propylene imine) dendrimers as contrast agents for MR imaging. <i>NMR in Biomedicine</i> , 2006, 19, 133-141.	1.6	119
15	Multivalent Contrast Agents Based on Gadolinium~Diethylenetriaminepentaacetic Acid-Terminated Poly(propylene imine) Dendrimers for Magnetic Resonance Imaging. <i>Macromolecules</i> , 2004, 37, 3084-3091.	2.2	114
16	Structural and Resting State Functional Connectivity of the Subthalamic Nucleus: Identification of Motor STN Parts and the Hyperdirect Pathway. <i>PLoS ONE</i> , 2012, 7, e39061.	1.1	114
17	Dynamic Contrast-enhanced MR Imaging Kinetic Parameters and Molecular Weight of Dendritic Contrast Agents in Tumor Angiogenesis in Mice. <i>Radiology</i> , 2005, 235, 65-72.	3.6	106
18	fMRI activation in relation to sound intensity and loudness. <i>NeuroImage</i> , 2007, 35, 709-718.	2.1	105

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19	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
20	Monitoring Response to Antiangiogenic Therapy in Non-“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
21	Increase in blood-“brain barrier leakage in healthy, older adults. GeroScience, 2020, 42, 1183-1193.	2.1	96
22	Resting-state networks and dissociation in psychogenic non-epileptic seizures. Journal of Psychiatric Research, 2014, 54, 126-133.	1.5	95
23	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
24	Quantitative Molecular Magnetic Resonance Imaging of Tumor Angiogenesis Using cNGR-Labeled Paramagnetic Quantum Dots. Cancer Research, 2008, 68, 7676-7683.	0.4	92
25	Representation of lateralization and tonotopy in primary versus secondary human auditory cortex. NeuroImage, 2007, 34, 264-273.	2.1	87
26	Frontal lobe connectivity and cognitive impairment in pediatric frontal lobe epilepsy. Epilepsia, 2013, 54, 446-454.	2.6	86
27	Dynamic Contrast-enhanced MR Imaging of Carotid Atherosclerotic Plaque: Model Selection, Reproducibility, and Validation. Radiology, 2013, 266, 271-279.	3.6	79
28	Efficacy of Radiation Safety Glasses in Interventional Radiology. CardioVascular and Interventional Radiology, 2014, 37, 1149-1155.	0.9	79
29	Cognitive and behavioral complications of frontal lobe epilepsy in children: A review of the literature. Epilepsia, 2011, 52, 849-856.	2.6	78
30	Subtle blood-“brain barrier leakage rate and spatial extent: Considerations for dynamic contrast-enhanced MRI. Medical Physics, 2017, 44, 4112-4125.	1.6	75
31	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
32	Blood-“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
33	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
34	Functional MRI reveals declined prefrontal cortex activation in patients with epilepsy on topiramate therapy. Epilepsy and Behavior, 2006, 9, 181-185.	0.9	71
35	Molecular Magnetic Resonance Imaging of Myocardial Angiogenesis After Acute Myocardial Infarction. Circulation, 2010, 121, 775-783.	1.6	71
36	Neuroimaging of Anxiety in Parkinson's Disease: A Systematic Review. Movement Disorders, 2021, 36, 327-339.	2.2	71

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37	Lessons for neuropsychology from functional MRI in patients with epilepsy. <i>Epilepsy and Behavior</i> , 2004, 5, 81-89.	0.9	68
38	Prediabetes Is Associated With Structural Brain Abnormalities: The Maastricht Study. <i>Diabetes Care</i> , 2018, 41, 2535-2543.	4.3	68
39	Enhanced signal detection in neuroimaging by means of regional control of the global false discovery rate. <i>NeuroImage</i> , 2007, 38, 43-56.	2.1	67
40	Spinal Cord Feeding Arteries at MR Angiography for Thoracoscopic Spinal Surgery: Feasibility Study and Implications for Surgical Approach. <i>Radiology</i> , 2004, 233, 541-547.	3.6	66
41	Dose-Response Relationship in Differentiated Thyroid Cancer Patients Undergoing Radioiodine Treatment Assessed by Means of ^{124}I PET/CT. <i>Journal of Nuclear Medicine</i> , 2016, 57, 1027-1032.	2.8	66
42	Magnetic resonance angiography and neuromonitoring to assess spinal cord blood supply in thoracic and thoracoabdominal aortic aneurysm surgery. <i>Journal of Vascular Surgery</i> , 2007, 45, 71-78.	0.6	65
43	Aberrant functional connectivity between motor and language networks in rolandic epilepsy. <i>Epilepsy Research</i> , 2013, 107, 253-262.	0.8	65
44	Harmonizing brain magnetic resonance imaging methods for vascular contributions to neurodegeneration. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2019, 11, 191-204.	1.2	65
45	Functional MRI in chronic epilepsy: associations with cognitive impairment. <i>Lancet Neurology</i> , The, 2010, 9, 1018-1027.	4.9	64
46	Early onset of cortical thinning in children with rolandic epilepsy. <i>NeuroImage: Clinical</i> , 2013, 2, 434-439.	1.4	64
47	Reduced functional integration of the sensorimotor and language network in rolandic epilepsy. <i>NeuroImage: Clinical</i> , 2013, 2, 239-246.	1.4	63
48	Combined ^{18}F -FDG PET-CT and DCE-MRI to Assess Inflammation and Microvascularization in Atherosclerotic Plaques. <i>Stroke</i> , 2013, 44, 3568-3570.	1.0	62
49	Magnetic Resonance Imaging in Peripheral Arterial Disease. <i>Investigative Radiology</i> , 2011, 46, 11-24.	3.5	61
50	Spectrotemporal features of the auditory cortex: the activation in response to dynamic ripples. <i>NeuroImage</i> , 2003, 20, 265-275.	2.1	58
51	Blood-Brain Barrier Leakage and Microvascular Lesions in Cerebral Amyloid Angiopathy. <i>Stroke</i> , 2019, 50, 328-335.	1.0	58
52	Tract Specific Reproducibility of Tractography Based Morphology and Diffusion Metrics. <i>PLoS ONE</i> , 2012, 7, e34125.	1.1	57
53	Functional Brain Networks Are Altered in Type 2 Diabetes and Prediabetes: Signs for Compensation of Cognitive Decrements? The Maastricht Study. <i>Diabetes</i> , 2016, 65, 2404-2413.	0.3	57
54	Whole-liver CT texture analysis in colorectal cancer: Does the presence of liver metastases affect the texture of the remaining liver?. <i>United European Gastroenterology Journal</i> , 2014, 2, 530-538.	1.6	56

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55	On the identifiability of pharmacokinetic parameters in dynamic contrast-enhanced imaging. <i>Magnetic Resonance in Medicine</i> , 2007, 58, 425-429.	1.9	53
56	Impaired Collateral Recruitment and Outward Remodeling in Experimental Diabetes. <i>Diabetes</i> , 2008, 57, 2818-2823.	0.3	53
57	Detection and characteristics of microvascular obstruction in reperfused acute myocardial infarction using an optimized protocol for contrast-enhanced cardiovascular magnetic resonance imaging. <i>European Radiology</i> , 2009, 19, 2904-2912.	2.3	52
58	Reproducibility of Quantitative Cerebral T2 Relaxometry, Diffusion Tensor Imaging, and 1H Magnetic Resonance Spectroscopy at 3.0 Tesla. <i>Investigative Radiology</i> , 2007, 42, 327-337.	3.5	51
59	Blood-brain barrier impairment in dementia: Current and future in vivo assessments. <i>Neuroscience and Biobehavioral Reviews</i> , 2015, 49, 71-81.	2.9	51
60	Assessment of Spinal Cord Circulation and Function in Endovascular Treatment of Thoracic Aortic Aneurysms. <i>Annals of Thoracic Surgery</i> , 2007, 83, S877-S881.	0.7	50
61	Vessel Growth and Function: Depiction with Contrast-enhanced MR Imaging. <i>Radiology</i> , 2009, 251, 317-335.	3.6	50
62	Gadofosveset-enhanced MRI for the assessment of rectal cancer lymph nodes: predictive criteria. <i>Abdominal Imaging</i> , 2013, 38, 720-727.	2.0	49
63	Functional and Structural Network Impairment in Childhood Frontal Lobe Epilepsy. <i>PLoS ONE</i> , 2014, 9, e90068.	1.1	49
64	Neurophysiological correlates of dissociative symptoms. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2014, 85, 174-179.	0.9	47
65	Microvascular Dysfunction Is Associated With Worse Cognitive Performance. <i>Hypertension</i> , 2020, 75, 237-245.	1.3	47
66	Assessing and minimizing the effects of noise and motion in clinical DTI at 3 T. <i>Human Brain Mapping</i> , 2009, 30, 2641-2655.	1.9	44
67	Cognitive and behavioural findings in children with frontal lobe epilepsy. <i>European Journal of Paediatric Neurology</i> , 2012, 16, 707-715.	0.7	44
68	Clinical evaluation of language fundamentals in Rolandic epilepsy, an assessment with CELF-4. <i>European Journal of Paediatric Neurology</i> , 2013, 17, 390-396.	0.7	44
69	MRI of renal oxygenation and function after normothermic ischemia-reperfusion injury. <i>NMR in Biomedicine</i> , 2011, 24, 194-200.	1.6	43
70	Gadopentetate Dimeglumine versus Ultrasmall Superparamagnetic Iron Oxide for Dynamic Contrast-enhanced MR Imaging of Tumor Angiogenesis in Human Colon Carcinoma in Mice. <i>Radiology</i> , 2003, 229, 429-438.	3.6	42
71	Visuospatial processing in early Alzheimer's disease: A multimodal neuroimaging study. <i>Cortex</i> , 2015, 64, 394-406.	1.1	42
72	White matter hyperintensities mediate the association between blood-brain barrier leakage and information processing speed. <i>Neurobiology of Aging</i> , 2020, 85, 113-122.	1.5	42

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73	Imaging the role of bloodâ€‘brain barrier disruption in normal cognitive ageing. <i>GeroScience</i> , 2020, 42, 1751-1764.	2.1	42
74	Pulsatility of Lenticulostriate Arteries Assessed by 7 Tesla Flow MRIâ€‘Measurement, Reproducibility, and Applicability to Aging Effect. <i>Frontiers in Physiology</i> , 2017, 8, 961.	1.3	39
75	Memory processes and prefrontal network dysfunction in cryptogenic epilepsy. <i>Epilepsia</i> , 2011, 52, 1467-1475.	2.6	38
76	Amyloid-Î² Interacts with Blood-Brain Barrier Function in Dementia: A Systematic Review. <i>Journal of Alzheimer's Disease</i> , 2013, 35, 859-873.	1.2	38
77	Autonomic nervous system functioning associated with psychogenic nonepileptic seizures: Analysis of heart rate variability. <i>Epilepsy and Behavior</i> , 2016, 54, 14-19.	0.9	38
78	Acute tryptophan depletion reduces activation in the right hippocampus during encoding in an episodic memory task. <i>NeuroImage</i> , 2006, 31, 1188-1196.	2.1	37
79	Quality control strategies for brain MRI segmentation and parcellation: Practical approaches and recommendations - insights from the Maastricht study. <i>NeuroImage</i> , 2021, 237, 118174.	2.1	37
80	Delayed convergence between brain network structure and function in rolandic epilepsy. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 704.	1.0	36
81	Interactions between hemodynamic responses to scanner acoustic noise and auditory stimuli in functional magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 49-60.	1.9	35
82	Glutamate quantification by PRESS or MEGA-PRESS: Validation, repeatability, and concordance. <i>Magnetic Resonance Imaging</i> , 2018, 48, 107-114.	1.0	35
83	Reduced Structural Connectivity between Sensorimotor and Language Areas in Rolandic Epilepsy. <i>PLoS ONE</i> , 2013, 8, e83568.	1.1	35
84	Measuring subtle leakage of the blood-brain barrier in cerebrovascular disease with DCE-MRI: Test-retest reproducibility and its influencing factors. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 46, 159-166.	1.9	34
85	Lateralized Anterior Mesiotemporal Lobe Activation: Semirandom Functional MR Imaging Encoding Paradigm in Patients with Temporal Lobe Epilepsyâ€‘Initial Experience. <i>Radiology</i> , 2005, 236, 996-1003.	3.6	33
86	On the Interplay of Microvasculature, Parenchyma, and Memory in Type 2 Diabetes. <i>Diabetes Care</i> , 2015, 38, 876-882.	4.3	32
87	Simultaneous investigation of microvasculature and parenchyma in cerebral small vessel disease using intravoxel incoherent motion imaging. <i>NeuroImage: Clinical</i> , 2017, 14, 216-221.	1.4	32
88	Tumor perfusion increases during hypofractionated short-course radiotherapy in rectal cancer: Sequential perfusion-CT findings. <i>Radiotherapy and Oncology</i> , 2010, 94, 156-160.	0.3	31
89	Reliability of pharmacokinetic parameters: Small vs. mediumâ€‘sized contrast agents. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 779-787.	1.9	30
90	Comparison Between Perfusion Computed Tomography and Dynamic Contrast-Enhanced Magnetic Resonance Imaging in Rectal Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 77, 400-408.	0.4	30

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91	White Matter Connectivity Abnormalities in Prediabetes and Type 2 Diabetes: The Maastricht Study. <i>Diabetes Care</i> , 2020, 43, 201-208.	4.3	29
92	Associations of Arterial Stiffness With Cognitive Performance, and the Role of Microvascular Dysfunction. <i>Hypertension</i> , 2020, 75, 1607-1614.	1.3	29
93	Applicability and reproducibility of 2D multi-slice GRASE myelin water fraction with varying acquisition acceleration. <i>NeuroImage</i> , 2019, 195, 333-339.	2.1	28
94	Pericortical Enhancement on Delayed Postgadolinium Fluid-Attenuated Inversion Recovery Images in Normal Aging, Mild Cognitive Impairment, and Alzheimer Disease. <i>American Journal of Neuroradiology</i> , 2017, 38, 1742-1747.	1.2	27
95	On the merits of non-invasive myelin imaging in epilepsy, a literature review. <i>Journal of Neuroscience Methods</i> , 2020, 338, 108687.	1.3	27
96	Blood-brain barrier leakage at baseline and cognitive decline in cerebral small vessel disease: a 2-year follow-up study. <i>GeroScience</i> , 2021, 43, 1643-1652.	2.1	27
97	Brain Imaging in Chronic Epilepsy Patients After Depth Electrode (Stereoencephalography) Implantation. <i>Neurosurgery</i> , 2013, 73, 543-549.	0.6	26
98	Comparison of 0.5-M Gd-DTPA with 1.0-M gadobutrol for magnetic resonance angiography of the supplying arteries of the spinal cord in thoracoabdominal aortic aneurysm patients. <i>Journal of Magnetic Resonance Imaging</i> , 2005, 22, 136-144.	1.9	25
99	Hippocampal MRI Volumetry at 3 Tesla. <i>Investigative Radiology</i> , 2009, 44, 509-517.	3.5	25
100	The precision of pharmacokinetic parameters in dynamic contrast-enhanced magnetic resonance imaging: the effect of sampling frequency and duration. <i>Physics in Medicine and Biology</i> , 2011, 56, 5665-5678.	1.6	25
101	Intravoxel Incoherent Motion Imaging in Small Vessel Disease. <i>Stroke</i> , 2017, 48, 658-663.	1.0	25
102	Spectral Diffusion Analysis of Intravoxel Incoherent Motion MRI in Cerebral Small Vessel Disease. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 1170-1180.	1.9	25
103	Differentiation of spinal cord arteries and veins by time-resolved MR angiography. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 26, 31-40.	1.9	24
104	Microstructural and functional MRI studies of cognitive impairment in epilepsy. <i>Epilepsia</i> , 2012, 53, 1690-1699.	2.6	24
105	Clinical Perspectives of Hybrid Proton-Fluorine Magnetic Resonance Imaging and Spectroscopy. <i>Investigative Radiology</i> , 2013, 48, 341-350.	3.5	24
106	Brain resting-state networks in adolescents with high-functioning autism: Analysis of spatial connectivity and temporal neurodynamics. <i>Brain and Behavior</i> , 2018, 8, e00878.	1.0	24
107	Effects of aging on recognition of intentionally and incidentally stored words: An fMRI study. <i>Neuropsychologia</i> , 2006, 44, 2477-2486.	0.7	23
108	Metabolic and functional MR biomarkers of antiepileptic drug effectiveness: A review. <i>Neuroscience and Biobehavioral Reviews</i> , 2015, 59, 92-99.	2.9	23

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109	Non-invasive assessment of microvascular dysfunction in patients with microvascular angina. <i>International Journal of Cardiology</i> , 2017, 248, 433-439.	0.8	23
110	Cerebral Pathology and Cognition in Diabetes: The Merits of Multiparametric Neuroimaging. <i>Frontiers in Neuroscience</i> , 2017, 11, 188.	1.4	23
111	Blood-Brain Barrier Dysfunction in Small Vessel Disease Related Intracerebral Hemorrhage. <i>Frontiers in Neurology</i> , 2018, 9, 926.	1.1	23
112	Microvascular Phenotyping in the Maastricht Study: Design and Main Findings, 2010â€“2018. <i>American Journal of Epidemiology</i> , 2020, 189, 873-884.	1.6	23
113	A Comprehensive View on MRI Techniques for Imaging Blood-Brain Barrier Integrity. <i>Investigative Radiology</i> , 2021, 56, 10-19.	3.5	23
114	Interplay of White Matter Hyperintensities, Cerebral Networks, and Cognitive Function in an Adult Population: Diffusion-Tensor Imaging in the Maastricht Study. <i>Radiology</i> , 2021, 298, 384-392.	3.6	23
115	Short- and long-term limbic abnormalities after experimental febrile seizures. <i>Neurobiology of Disease</i> , 2008, 32, 293-301.	2.1	22
116	Evaluation of magnetic resonance vessel size imaging by two-photon laser scanning microscopy. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 930-939.	1.9	22
117	Working memory network alterations in highâ€“functioning adolescents with an autism spectrum disorder. <i>Psychiatry and Clinical Neurosciences</i> , 2018, 72, 73-83.	1.0	22
118	Lower myelinâ€“water content of the frontal lobe in childhood absence epilepsy. <i>Epilepsia</i> , 2019, 60, 1689-1696.	2.6	22
119	Baseline Blood-Brain Barrier Leakage and Longitudinal Microstructural Tissue Damage in the Periphery of White Matter Hyperintensities. <i>Neurology</i> , 2021, 96, e2192-e2200.	1.5	22
120	Working memory in middle-aged males: Age-related brain activation changes and cognitive fatigue effects. <i>Biological Psychology</i> , 2014, 96, 134-143.	1.1	21
121	Sources of systematic error in DCEâ€“MRI estimation of lowâ€“level bloodâ€“brain barrier leakage. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 1888-1903.	1.9	21
122	Towards Endometriosis Diagnosis by Gadofosveset-Trisodium Enhanced Magnetic Resonance Imaging. <i>PLoS ONE</i> , 2012, 7, e33241.	1.1	21
123	Magnetic resonance angiography of collateral vessel growth in a rabbit femoral artery ligation model. <i>NMR in Biomedicine</i> , 2006, 19, 77-83.	1.6	20
124	Dynamic contrast-enhanced MRI of muscle perfusion combined with MR angiography of collateral artery growth in a femoral artery ligation model. <i>NMR in Biomedicine</i> , 2007, 20, 717-725.	1.6	20
125	Optimized pharmacokinetic modeling for the detection of perfusion differences in skeletal muscle with DCEâ€“MRI: Effect of contrast agent size. <i>Medical Physics</i> , 2010, 37, 5746-5755.	1.6	20
126	The Effects of Sustained Cognitive Task Performance on Subsequent Resting State Functional Connectivity in Healthy Young and Middle-Aged Male Schoolteachers. <i>Brain Connectivity</i> , 2012, 2, 102-112.	0.8	20

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127	Chronic antiepileptic drug use and functional network efficiency: A functional magnetic resonance imaging study. <i>World Journal of Radiology</i> , 2017, 9, 287.	0.5	19
128	Gadolinium-labeled quantum dots for molecular magnetic resonance imaging: 1×1 versus 2×2 mapping. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 291-298.	1.9	18
129	MR Angiography of Collateral Arteries in a Hind Limb Ischemia Model: Comparison between Blood Pool Agent Gadomer and Small Contrast Agent Gd-DTPA. <i>PLoS ONE</i> , 2011, 6, e16159.	1.1	17
130	Quantification of abdominal aortic aneurysm wall enhancement with dynamic contrast-enhanced MRI: Feasibility, reproducibility, and initial experience. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, 1449-1456.	1.9	16
131	White Matter Hyperintensities Potentiate Hippocampal Volume Reduction in Non-Demented Older Individuals with Abnormal Amyloid- β . <i>Journal of Alzheimer's Disease</i> , 2016, 55, 333-342.	1.2	16
132	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. <i>Diabetes Care</i> , 2021, 44, 2493-2502.	4.3	16
133	Suitability of Pharmacokinetic Models for Dynamic Contrast-Enhanced MRI of Abdominal Aortic Aneurysm Vessel Wall: A Comparison. <i>PLoS ONE</i> , 2013, 8, e75173.	1.1	15
134	Towards prognostic biomarkers from BOLD fluctuations to differentiate a first epileptic seizure from new-onset epilepsy. <i>Epilepsia</i> , 2017, 58, 476-483.	2.6	15
135	Abnormal Profiles of Local Functional Connectivity Proximal to Focal Cortical Dysplasias. <i>PLoS ONE</i> , 2016, 11, e0166022.	1.1	15
136	Brain activity during auditory backward and simultaneous masking tasks. <i>Hearing Research</i> , 2003, 181, 8-14.	0.9	13
137	Cognitive fMRI and neuropsychological assessment in patients with secondarily generalized seizures. <i>Clinical Neurology and Neurosurgery</i> , 2008, 110, 441-450.	0.6	13
138	White Matter Lesions in Patients With Localization-Related Epilepsy. <i>Investigative Radiology</i> , 2008, 43, 552-558.	3.5	13
139	Pharmacokinetics of contrast agents targeted to the tumor vasculature in molecular magnetic resonance imaging. <i>Contrast Media and Molecular Imaging</i> , 2010, 5, 9-17.	0.4	13
140	High field imaging of large-scale neurotransmitter networks: Proof of concept and initial application to epilepsy. <i>NeuroImage: Clinical</i> , 2018, 19, 47-55.	1.4	13
141	Dynamic Contrast-Enhanced MRI Assessment of Hyperemic Fractional Microvascular Blood Plasma Volume in Peripheral Arterial Disease: Initial Findings. <i>PLoS ONE</i> , 2012, 7, e37756.	1.1	12
142	Spatial heterogeneity analysis of brain activation in fMRI. <i>NeuroImage: Clinical</i> , 2014, 5, 266-276.	1.4	12
143	Advanced and amplified BOLD fluctuations in high-grade gliomas. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 47, 1616-1625.	1.9	12
144	A new analysis approach for T2-relaxometry myelin water quantification: Orthogonal Matching Pursuit. <i>Magnetic Resonance in Medicine</i> , 2018, 81, 3292-3303.	1.9	12

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145	CSF enhancement on post-contrast fluid-attenuated inversion recovery images; a systematic review. <i>NeuroImage: Clinical</i> , 2020, 28, 102456.	1.4	12
146	Associations of increased interstitial fluid with vascular and neurodegenerative abnormalities in a memory clinic sample. <i>Neurobiology of Aging</i> , 2021, 106, 257-267.	1.5	12
147	Assessment of microvascular rarefaction in human brain disorders using physiological magnetic resonance imaging. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 718-737.	2.4	12
148	Age-related reorganization of encoding networks directly influences subsequent recognition memory. <i>Cognitive Brain Research</i> , 2005, 25, 8-18.	3.3	11
149	Wavelet entropy of BOLD time series: An application to Rolandic epilepsy. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 46, 1728-1737.	1.9	11
150	On the Reproducibility of Inversion Recovery Intravoxel Incoherent Motion Imaging in Cerebrovascular Disease. <i>American Journal of Neuroradiology</i> , 2018, 39, 226-231.	1.2	11
151	Structural covariance networks relate to the severity of epilepsy with focal-onset seizures. <i>NeuroImage: Clinical</i> , 2018, 20, 861-867.	1.4	11
152	Abnormal Blood Oxygen Level-Dependent Fluctuations in Focal Cortical Dysplasia and the Perilesional Zone: Initial Findings. <i>American Journal of Neuroradiology</i> , 2018, 39, 1310-1315.	1.2	11
153	Blood pressure variability and microvascular dysfunction: the Maastricht Study. <i>Journal of Hypertension</i> , 2020, 38, 1541-1550.	0.3	11
154	Association between Frequency of Nocturnal Epilepsy and Language Disturbance in Children. <i>Pediatric Neurology</i> , 2011, 44, 333-339.	1.0	10
155	Extracerebral microvascular dysfunction is related to brain MRI markers of cerebral small vessel disease: The Maastricht Study. <i>GeroScience</i> , 2022, 44, 147-157.	2.1	10
156	Magnetic resonance imaging-based monitoring of collateral artery development in patients with intermittent claudication during supervised exercise therapy. <i>Journal of Vascular Surgery</i> , 2013, 58, 1236-1243.	0.6	9
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