Stefan Ropele

List of Publications by Year
in descending order

120 papers	6,668 citations	87843 38 h-index	71651 76 g-index
126 all docs	126 docs citations	126 times ranked	9624 citing authors

#	Article	IF	Citations
1	Quantitative susceptibility mapping (QSM) as a means to measure brain iron? A post mortem validation study. NeuroImage, 2012, 62, 1593-1599.	2.1	615
2	Quantitative MR Imaging of Brain Iron: A Postmortem Validation Study. Radiology, 2010, 257, 455-462.	3.6	429
3	Serum neurofilament light levels in normal aging and their association with morphologic brain changes. Nature Communications, 2020, 11, 812.	5.8	316
4	Progression of cerebral white matter lesions: 6-year results of the Austrian Stroke Prevention Study. Lancet, The, 2003, 361, 2046-2048.	6.3	275
5	A Novel Imaging Marker for Small Vessel Disease Based on Skeletonization of White Matter Tracts and Diffusion Histograms. Annals of Neurology, 2016, 80, 581-592.	2.8	250
6	Novel genetic loci associated with hippocampal volume. Nature Communications, 2017, 8, 13624.	5.8	250
7	Safety and immunogenicity of the tau vaccine AADvac1 in patients with Alzheimer's disease: a randomised, double-blind, placebo-controlled, phase 1 trial. Lancet Neurology, The, 2017, 16, 123-134.	4.9	233
8	Quantitative Susceptibility Mapping in Multiple Sclerosis. Radiology, 2013, 267, 551-559.	3.6	216
9	Differential developmental trajectories of magnetic susceptibility in human brain gray and white matter over the lifespan. Human Brain Mapping, 2014, 35, 2698-2713.	1.9	208
10	Quantitative Susceptibility Mapping in Parkinson's Disease. PLoS ONE, 2016, 11, e0162460.	1.1	184
11	Fast quantitative susceptibility mapping using 3D EPI and total generalized variation. NeuroImage, 2015, 111, 622-630.	2.1	157
12	Serum neurofilament light is sensitive to active cerebral small vessel disease. Neurology, 2017, 89, 2108-2114.	1.5	139
13	Quantifying bloodâ€brain barrier leakage in small vessel disease: Review and consensus recommendations. Alzheimer's and Dementia, 2019, 15, 840-858.	0.4	134
14	R2* mapping for brain iron: associations with cognition in normal aging. Neurobiology of Aging, 2015, 36, 925-932.	1.5	122
15	Strategic white matter tracts for processing speed deficits in age-related small vessel disease. Neurology, 2014, 82, 1946-1950.	1.5	116
16	Susceptibility induced grayâ€“white matter MRI contrast in the human brain. NeuroImage, 2012, 59, 1413-1419.	2.1	113
17	Nonconventional MRI and microstructural cerebral changes in multiple sclerosis. Nature Reviews Neurology, 2015, 11, 676-686.	4.9	109
18	Diffusion-weighted Imaging with Navigated Interleaved Echo-planar Imaging and a Conventional Gradient System. Radiology, 1999, 211, 799-806.	3.6	94

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19	Assessment of trace elements in human brain using inductively coupled plasma mass spectrometry. Journal of Trace Elements in Medicine and Biology, 2014, 28, 1-7.	1.5	88
20	FUNDAMANT: an interventional 72-week phase 1 follow-up study of AADvac1, an active immunotherapy against tau protein pathology in Alzheimerâ€™s disease. Alzheimer's Research and Therapy, 2018, 10, 108.	3.0	87
21	Effects of formalin fixation and temperature on MR relaxation times in the human brain. NMR in Biomedicine, 2016, 29, 458-465.	1.6	86
22	MRI assessment of iron deposition in multiple sclerosis. Journal of Magnetic Resonance Imaging, 2011, 34, 13-21.	1.9	84
23	MRI for Iron Mapping in Alzheimer's Disease. Neurodegenerative Diseases, 2014, 13, 189-191.	0.8	84
24	Intercenter differences in diffusion tensor MRI acquisition. Journal of Magnetic Resonance Imaging, 2010, 31, 1458-1468.	1.9	81
25	Quantitative magnetic resonance imaging towards clinical application in multiple sclerosis. Brain, 2021, 144, 1296-1311.	3.7	81
26	Reproducibility and variability of quantitative magnetic resonance imaging markers in cerebral small vessel disease. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 1319-1337.	2.4	80
27	Cross-sectional and Longitudinal Assessment of Brain Iron Level in Alzheimer Disease Using 3-T MRI. Radiology, 2020, 296, 619-626.	3.6	71
28	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
29	ADAMANT: a placebo-controlled randomized phase 2 study of AADvac1, an active immunotherapy against pathological tau in Alzheimerâ€™s disease. Nature Aging, 2021, 1, 521-534.	5.3	64
30	Dynamics of brain iron levels in multiple sclerosis. Neurology, 2015, 84, 2396-2402.	1.5	61
31	Method for quantitative imaging of the macromolecular1H fraction in tissues. Magnetic Resonance in Medicine, 2003, 49, 864-871.	1.9	59
32	Determinants of iron accumulation in the normal aging brain. Neurobiology of Aging, 2016, 43, 149-155.	1.5	59
33	Assessment and correction ofB1-induced errors in magnetization transfer ratio measurements. Magnetic Resonance in Medicine, 2005, 53, 134-140.	1.9	57
34	Outcome after acute ischemic stroke is linked to sex-specific lesion patterns. Nature Communications, 2021, 12, 3289.	5.8	50
35	Magnetization Transfer MR Imaging in Multiple Sclerosis. Neuroimaging Clinics of North America, 2009, 19, 27-36.	0.5	47
36	Determinants of iron accumulation in deep grey matter of multiple sclerosis patients. Multiple Sclerosis Journal, 2014, 20, 1692-1698.	1.4	47

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37	Nanoparticulate flurbiprofen reduces amyloid-Î²42 generation in an in vitro bloodâ€“brain barrier model. Alzheimer's Research and Therapy, 2013, 5, 51.	3.0	45
38	Loss of Venous Integrity in Cerebral Small Vessel Disease. Stroke, 2014, 45, 2124-2126.	1.0	43
39	Brain Activity Changes in Cognitive Networks in Relapsing-Remitting Multiple Sclerosis â€“ Insights from a Longitudinal fMRI Study. PLoS ONE, 2014, 9, e93715.	1.1	42
40	Association between increased magnetic susceptibility of deep gray matter nuclei and decreased motor function in healthy adults. NeuroImage, 2015, 105, 45-52.	2.1	41
41	Cortical Superficial Siderosis in Different Types of Cerebral Small Vessel Disease. Stroke, 2017, 48, 1404-1407.	1.0	40
42	Lifespan normative data on rates of brain volume changes. Neurobiology of Aging, 2019, 81, 30-37.	1.5	40
43	Factors influencing serum neurofilament light chain levels in normal aging. Aging, 2021, 13, 25729-25738.	1.4	38
44	Temperatureâ€induced changes of magnetic resonance relaxation times in the human brain: A postmortem study. Magnetic Resonance in Medicine, 2014, 71, 1575-1580.	1.9	36
45	Magnetization Transfer Ratio Relates to Cognitive Impairment in Normal Elderly. Frontiers in Aging Neuroscience, 2014, 6, 263.	1.7	34
46	Prognostic value of free light chains lambda and kappa in early multiple sclerosis. Multiple Sclerosis Journal, 2017, 23, 1496-1505.	1.4	34
47	Quantitation of brain tissue changes associated with white matter hyperintensities by diffusionâ€weighted and magnetization transfer imaging: The LADIS (leukoaraiosis and disability in the) Tj ETQq1 1 0.784314 rg BT /Ove	1.0	33
48	Brain Magnetic Resonance Imaging Findings Fail to Suspect Fabry Disease in Young Patients With an Acute Cerebrovascular Event. Stroke, 2015, 46, 1548-1553.	1.0	33
49	Grey-matter network disintegration as predictor of cognitive and motor function with aging. Brain Structure and Function, 2018, 223, 2475-2487.	1.2	33
50	The role of iron and myelin in orientation dependent R₂[*] of white matter. NMR in Biomedicine, 2019, 32, e4092.	1.6	32
51	Periventricular lesions correlate with cortical thinning in multiple sclerosis. Annals of Neurology, 2015, 78, 530-539.	2.8	29
52	White Matter Edema at the Early Stage of Cerebral Autosomal-Dominant Arteriopathy With Subcortical Infarcts and Leukoencephalopathy. Stroke, 2015, 46, 258-261.	1.0	29
53	Correlates of Executive Functions in Multiple Sclerosis Based on Structural and Functional MR Imaging: Insights from a Multicenter Study. Radiology, 2016, 280, 869-879.	3.6	29
54	Iron quantification with susceptibility. NMR in Biomedicine, 2017, 30, e3534.	1.6	29

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55	Predictive value of different conventional and non-conventional MRI-parameters for specific domains of cognitive function in multiple sclerosis. NeuroImage: Clinical, 2015, 7, 715-720.	1.4	27
56	Performance of five research-domain automated WM lesion segmentation methods in a multi-center MS study. NeuroImage, 2017, 163, 106-114.	2.1	27
57	Longitudinal MRI dynamics of recent small subcortical infarcts and possible predictors. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 1669-1677.	2.4	27
58	The Impact of Sex and Vascular Risk Factors on Brain Tissue Changes with Aging: Magnetization Transfer Imaging Results of the Austrian Stroke Prevention Study. American Journal of Neuroradiology, 2010, 31, 1297-1301.	1.2	26
59	The influence of iron oxidation state on quantitative MRI parameters in post mortem human brain. NeuroImage, 2020, 220, 117080.	2.1	25
60	Repetitive Long-Term Hyperbaric Oxygen Treatment (HBOT) Administered after Experimental Traumatic Brain Injury in Rats Induces Significant Remyelination and a Recovery of Sensorimotor Function. PLoS ONE, 2014, 9, e97750.	1.1	24
61	Iron mapping using the temperature dependency of the magnetic susceptibility. Magnetic Resonance in Medicine, 2015, 73, 1282-1288.	1.9	24
62	Early Progressive Changes in White Matter Integrity Are Associated with Stroke Recovery. Translational Stroke Research, 2020, 11, 1264-1272.	2.3	24
63	In Vivo High-Resolution 7 Tesla MRI Shows Early and Diffuse Cortical Alterations in CADASIL. PLoS ONE, 2014, 9, e106311.	1.1	23
64	Widespread cortical demyelination of both hemispheres can be induced by injection of pro-inflammatory cytokines via an implanted catheter in the cortex of MOG-immunized rats. Experimental Neurology, 2017, 294, 32-44.	2.0	23
65	Magnetization Transfer Imaging for in vivo Detection of Microstructural Tissue Changes in Aging and Dementia: A Short Literature Review. Journal of Alzheimer's Disease, 2014, 42, S229-S237.	1.2	22
66	Different Types of White Matter Hyperintensities in CADASIL. Frontiers in Neurology, 2018, 9, 526.	1.1	21
67	Investigation of Deep-Learning-Driven Identification of Multiple Sclerosis Patients Based on Susceptibility-Weighted Images Using Relevance Analysis. Frontiers in Neuroscience, 2020, 14, 609468.	1.4	21
68	Iron Mapping in Multiple Sclerosis. Neuroimaging Clinics of North America, 2017, 27, 335-342.	0.5	21
69	Effects of concentration and vendor specific composition of formalin on postmortem MRI of the human brain. Magnetic Resonance in Medicine, 2018, 79, 1111-1115.	1.9	20
70	Manual and automated tissue segmentation confirm the impact of thalamus atrophy on cognition in multiple sclerosis: A multicenter study. NeuroImage: Clinical, 2021, 29, 102549.	1.4	20
71	Disability in multiple sclerosis is related to thalamic connectivity and cortical network atrophy. Multiple Sclerosis Journal, 2022, 28, 61-70.	1.4	20
72	Contactin-1 and contactin-2 in cerebrospinal fluid as potential biomarkers for axonal domain dysfunction in multiple sclerosis. Multiple Sclerosis Journal - Experimental, Translational and Clinical, 2018, 4, 205521731881953.	0.5	19

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73	Nigral iron deposition in common tremor disorders. Movement Disorders, 2019, 34, 129-132.	2.2	18
74	Multicenter mapping in the healthy brain. Magnetic Resonance in Medicine, 2014, 71, 1103-1107.	1.9	17
75	No evidence for increased brain iron deposition in patients with ischemic white matter disease. Neurobiology of Aging, 2016, 45, 61-63.	1.5	17
76	Optimization of ultrastructural preservation of human brain for transmission electron microscopy after long post-mortem intervals. Acta Neuropathologica Communications, 2019, 7, 144.	2.4	17
77	Cerebral White Matter Lesions and Affective Episodes Correlate in Male Individuals with Bipolar Disorder. PLoS ONE, 2015, 10, e0135313.	1.1	17
78	Estimation of magnetization transfer rates from PACE experiments with pulsed RF saturation. Journal of Magnetic Resonance Imaging, 2000, 12, 749-756.	1.9	16
79	Superâ€resolution MRI using microscopic spatial modulation of magnetization. Magnetic Resonance in Medicine, 2010, 64, 1671-1675.	1.9	16
80	Morphological MRI Characteristics of Recent Small Subcortical Infarcts. International Journal of Stroke, 2015, 10, 1037-1043.	2.9	16
81	The impact of vascular risk factors on brain volume and lesion load in patients with early multiple sclerosis. Multiple Sclerosis Journal, 2019, 25, 48-54.	1.4	16
82	Investigating the origin and evolution of cerebral small vessel disease: The RUN DMC â€" InTENse study. European Stroke Journal, 2018, 3, 369-378.	2.7	14
83	Reduced accuracy of MRI deep grey matter segmentation in multiple sclerosis: an evaluation of four automated methods against manual reference segmentations in a multi-center cohort. Journal of Neurology, 2020, 267, 3541-3554.	1.8	14
84	Relaxation time mapping in multiple sclerosis. Expert Review of Neurotherapeutics, 2011, 11, 441-450.	1.4	12
85	Total gray matter volume is reduced in individuals with bipolar disorder currently treated with atypical antipsychotics. Journal of Affective Disorders, 2020, 260, 722-727.	2.0	12
86	MRI Radiomic Signature of White Matter Hyperintensities Is Associated With Clinical Phenotypes. Frontiers in Neuroscience, 2021, 15, 691244.	1.4	12
87	Multimodal assessment of white matter tracts in amyotrophic lateral sclerosis. PLoS ONE, 2017, 12, e0178371.	1.1	12
88	Fast multislice T1 and T1sat imaging using a phase acquisition of composite echoes (PACE) technique. Magnetic Resonance in Medicine, 1999, 42, 1089-1097.	1.9	11
89	Assessment of ferritin content in multiple sclerosis brains using temperatureâ€induced R*₂ changes. Magnetic Resonance in Medicine, 2018, 79, 1609-1615.	1.9	11
90	Excessive White Matter Hyperintensity Increases Susceptibility to Poor Functional Outcomes After Acute Ischemic Stroke. Frontiers in Neurology, 2021, 12, 700616.	1.1	11

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91	Lower Magnetization Transfer Ratio in the Forceps Minor Is Associated with Poorer Gait Velocity in Older Adults. American Journal of Neuroradiology, 2017, 38, 500-506.	1.2	9
92	Long-term course and morphological MRI correlates of cognitive function in multiple sclerosis. Multiple Sclerosis Journal, 2021, 27, 954-963.	1.4	9
93	Information processing speed as a prognostic marker of physical impairment and progression in patients with multiple sclerosis. Multiple Sclerosis and Related Disorders, 2022, 57, 103353.	0.9	9
94	T1 imaging using phase acquisition of composite echoes. Magnetic Resonance in Medicine, 1999, 41, 386-391.	1.9	8
95	T1 maps from shifted spin echoes and stimulated echoes. Magnetic Resonance in Medicine, 2001, 46, 1242-1245.	1.9	8
96	Morphological MRI phenotypes of multiple sclerosis differ in resting-state brain function. Scientific Reports, 2019, 9, 16221.	1.6	8
97	Magnetic resonance elastography of the human brain using a multiphase DENSE acquisition. Magnetic Resonance in Medicine, 2019, 81, 3578-3587.	1.9	8
98	Are morphologic features of recent small subcortical infarcts related to specific etiologic aspects?. Therapeutic Advances in Neurological Disorders, 2019, 12, 175628641983571.	1.5	8
99	Sex-specific lesion pattern of functional outcomes after stroke. Brain Communications, 2022, 4, fcac020.	1.5	8
100	Tracking of Magnetite Labeled Nanoparticles in the Rat Brain Using MRI. PLoS ONE, 2014, 9, e92068.	1.1	7
101	Free water diffusion MRI and executive function with a speed component in healthy aging. NeuroImage, 2022, 257, 119303.	2.1	7
102	Quantitative Susceptibility Mapping to Assess Cerebral Vascular Compliance. American Journal of Neuroradiology, 2019, 40, 460-463.	1.2	6
103	Do increases in deep grey matter volumes after electroconvulsive therapy persist in patients with major depression? A longitudinal MRI-study. Journal of Affective Disorders, 2021, 281, 908-917.	2.0	6
104	In vivo assessment of anisotropy of apparent magnetic susceptibility in white matter from a single orientation acquisition. NeuroImage, 2021, 241, 118442.	2.1	6
105	A Semiautomatic Method for Multiple Sclerosis Lesion Segmentation on Dual-Echo MR Imaging: Application in a Multicenter Context. American Journal of Neuroradiology, 2016, 37, 2043-2049.	1.2	5
106	Microstructural Tissue Changes in Alzheimer Disease Brains: Insights from Magnetization Transfer Imaging. American Journal of Neuroradiology, 2021, 42, 688-693.	1.2	5
107	Periventricular magnetisation transfer abnormalities in early multiple sclerosis. NeuroImage: Clinical, 2022, 34, 103012.	1.4	5
108	Development and evaluation of a manual segmentation protocol for deep grey matter in multiple sclerosis: Towards accelerated semi-automated references. NeuroImage: Clinical, 2021, 30, 102659.	1.4	3

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109	Decreased Cerebrospinal Fluid Antioxidative Capacity Is Related to Disease Severity and Progression in Early Multiple Sclerosis. Biomolecules, 2021, 11, 1264.	1.8	3
110	Analysis of deep grey nuclei susceptibility in early childhood: a quantitative susceptibility mapping and R2* study at 3 Tesla. Neuroradiology, 2022, 64, 1021-1031.	1.1	3
111	Quantification of cortical damage in multiple sclerosis using DTI remains a challenge. Brain, 2019, 142, 1848-1850.	3.7	2
112	Assessment and correction of macroscopic field variations in 2D spoiled gradientâ€echo sequences. Magnetic Resonance in Medicine, 2020, 84, 620-633.	1.9	2
113	Investigation of biases in convolutional neural networks for semantic segmentation using performance sensitivity analysis. Zeitschrift Fur Medizinische Physik, 2022, 32, 346-360.	0.6	2
114	Measurement of short and ultrashortT2 components using progressive binomial RF saturation. Magnetic Resonance in Medicine, 2006, 56, 265-271.	1.9	1
115	Gray Matter Covariance Networks as Classifiers and Predictors of Cognitive Function in Alzheimerâ€™s Disease. Frontiers in Psychiatry, 2020, 11, 360.	1.3	1
116	Adaptive sliceâ€specific zâ€shimming for 2D spoiled gradientâ€echo sequences. Magnetic Resonance in Medicine, 2021, 85, 818-830.	1.9	1
117	Foundations of advanced magnetic resonance imaging. Neurotherapeutics, 2005, 2, 167-196.	2.1	1
118	Effects of actual and imagined music-cued gait training on motor functioning and brain activity in people with multiple sclerosis: protocol of a randomised parallel multicentre trial. BMJ Open, 2022, 12, e056666.	0.8	1
119	Comment on the letter to the editor entitled â€œBrain iron deposition in patients with white matter hyperintensities of presumed vascular originâ€•by D. Zhou. Neurobiology of Aging, 2017, 53, 198.	1.5	0
120	Chemo Ion Pumps for Drug Delivery towards in vivo Brain Tumors. , 0, , .		0