

Michael Scheel

List of Publications by Year in descending order

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123
papers

4,733
citations

87888

38
h-index

118850

62
g-index

129
all docs

129
docs citations

129
times ranked

6941
citing authors

#	ARTICLE	IF	CITATIONS
1	Recording, analysis, and interpretation of spreading depolarizations in neurointensive care: Review and recommendations of the COSBID research group. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 1595-1625.	4.3	255
2	Spreading convulsions, spreading depolarization and epileptogenesis in human cerebral cortex. <i>Brain</i> , 2012, 135, 259-275.	7.6	211
3	Diagnosis and Treatment of NMO Spectrum Disorder and MOG-Encephalomyelitis. <i>Frontiers in Neurology</i> , 2018, 9, 888.	2.4	194
4	Functional and structural brain changes in anti- α -N-methyl-D-aspartate receptor encephalitis. <i>Annals of Neurology</i> , 2013, 74, 284-296.	5.3	167
5	WHITE MATTER INTEGRITY AND ITS RELATIONSHIP TO PTSD AND CHILDHOOD TRAUMA-A SYSTEMATIC REVIEW AND META-ANALYSIS. <i>Depression and Anxiety</i> , 2013, 30, 207-216.	4.1	158
6	Altered basal ganglia functional connectivity in multiple sclerosis patients with fatigue. <i>Multiple Sclerosis Journal</i> , 2015, 21, 925-934.	3.0	147
7	Microstructural visual system changes in AQP4-antibody-seropositive NMOSD. <i>Neurology: Neuroimmunology and Neuroinflammation</i> , 2017, 4, e334.	6.0	128
8	Correlates of spreading depolarization in human scalp electroencephalography. <i>Brain</i> , 2012, 135, 853-868.	7.6	126
9	Acute exercise ameliorates reduced brain-derived neurotrophic factor in patients with panic disorder. <i>Psychoneuroendocrinology</i> , 2010, 35, 364-368.	2.7	113
10	In vivo waveguide elastography of white matter tracts in the human brain. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1410-1422.	3.0	110
11	Beneficial effects of autologous mesenchymal stem cell transplantation in active progressive multiple sclerosis. <i>Brain</i> , 2020, 143, 3574-3588.	7.6	110
12	Deep brain stimulation induced normalization of the human functional connectome in Parkinson's disease. <i>Brain</i> , 2019, 142, 3129-3143.	7.6	109
13	Towards an Elastographic Atlas of Brain Anatomy. <i>PLoS ONE</i> , 2013, 8, e71807.	2.5	106
14	Uncovering convolutional neural network decisions for diagnosing multiple sclerosis on conventional MRI using layer-wise relevance propagation. <i>NeuroImage: Clinical</i> , 2019, 24, 102003.	2.7	93
15	The acute antipanic and anxiolytic activity of aerobic exercise in patients with panic disorder and healthy control subjects. <i>Journal of Psychiatric Research</i> , 2009, 43, 1013-1017.	3.1	85
16	Clinical and radiological differences in posterior reversible encephalopathy syndrome between patients with preeclampsia-eclampsia and other predisposing diseases. <i>European Journal of Neurology</i> , 2012, 19, 935-943.	3.3	82
17	The prognostic value of gray-white-matter ratio in cardiac arrest patients treated with hypothermia. <i>Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine</i> , 2013, 21, 23.	2.6	77
18	Cerebral magnetic resonance elastography in supranuclear palsy and idiopathic Parkinson's disease. <i>NeuroImage: Clinical</i> , 2013, 3, 381-387.	2.7	76

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19	In vivo measurement of volumetric strain in the human brain induced by arterial pulsation and harmonic waves. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 671-683.	3.0	73
20	Association of Retinal Ganglion Cell Layer Thickness With Future Disease Activity in Patients With Clinically Isolated Syndrome. <i>JAMA Neurology</i> , 2018, 75, 1071.	9.0	72
21	Multiple sclerosisâ€related fatigue: Altered resting-state functional connectivity of the ventral striatum and dorsolateral prefrontal cortex. <i>Multiple Sclerosis Journal</i> , 2019, 25, 554-564.	3.0	69
22	Gadopentetate but not gadobutrol accumulates in the dentate nucleus of multiple sclerosis patients. <i>Multiple Sclerosis Journal</i> , 2017, 23, 963-972.	3.0	65
23	In vivo waveguide elastography: Effects of neurodegeneration in patients with amyotrophic lateral sclerosis. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 1755-1761.	3.0	58
24	Diffusion tensor imaging in hydrocephalusâ€findings before and after shunt surgery. <i>Acta Neurochirurgica</i> , 2012, 154, 1699-1706.	1.7	54
25	Blunted ACTH response to dexamethasone suppression-CRH stimulation in posttraumatic stress disorder. <i>Journal of Psychiatric Research</i> , 2008, 42, 1185-1188.	3.1	53
26	Fiber type characterization in skeletal muscle by diffusion tensor imaging. <i>NMR in Biomedicine</i> , 2013, 26, 1220-1224.	2.8	52
27	Early blood-brain barrier dysfunction predicts neurological outcome following aneurysmal subarachnoid hemorrhage. <i>EBioMedicine</i> , 2019, 43, 460-472.	6.1	52
28	Impaired neurovascular coupling to ictal epileptic activity and spreading depolarization in a patient with subarachnoid hemorrhage: Possible link to bloodâ€brain barrier dysfunction. <i>Epilepsia</i> , 2012, 53, 22-30.	5.1	51
29	Sex differences in brain atrophy in multiple sclerosis. <i>Biology of Sex Differences</i> , 2020, 11, 49.	4.1	51
30	Outcome Prediction in Patients After Cardiac Arrest: A Simplified Method for Determination of Grayâ€White Matter Ratio in Cranial Computed Tomography. <i>Clinical Neuroradiology</i> , 2015, 25, 49-54.	1.9	50
31	Fractal network dimension and viscoelastic powerlaw behavior: II. An experimental study of structure-mimicking phantoms by magnetic resonance elastography. <i>Physics in Medicine and Biology</i> , 2012, 57, 4041-4053.	3.0	47
32	Myelination deficits in schizophrenia: evidence from diffusion tensor imaging. <i>Brain Structure and Function</i> , 2013, 218, 151-156.	2.3	47
33	Threeâ€parameter shear wave inversion in MR elastography of incompressible transverse isotropic media: Application to in vivo lower leg muscles. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1537-1545.	3.0	47
34	Radiopaque Three-dimensional Printing: A Method to Create Realistic CT Phantoms. <i>Radiology</i> , 2017, 282, 569-575.	7.3	47
35	Spinal cord lesions and atrophy in NMOSD with AQP4-IgG and MOG-IgG associated autoimmunity. <i>Multiple Sclerosis Journal</i> , 2019, 25, 1926-1936.	3.0	47
36	Brain parenchymal damage in neuromyelitis optica spectrum disorder â€ A multimodal MRI study. <i>European Radiology</i> , 2016, 26, 4413-4422.	4.5	45

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37	Long-term disability in neuromyelitis optica spectrum disorder with a history of myelitis is associated with age at onset, delay in diagnosis/preventive treatment, MRI lesion length and presence of symptomatic brain lesions. <i>Multiple Sclerosis and Related Disorders</i> , 2019, 28, 64-68.	2.0	44
38	Magnetic Resonance Imaging in Transient Global Amnesia. <i>Clinical Neuroradiology</i> , 2012, 22, 335-340.	1.9	43
39	Intrathecal IgM production is a strong risk factor for early conversion to multiple sclerosis. <i>Neurology</i> , 2019, 93, e1439-e1451.	1.1	43
40	Spreading depolarizations in ischaemia after subarachnoid haemorrhage, a diagnostic phase III study. <i>Brain</i> , 2022, 145, 1264-1284.	7.6	41
41	Pain in AQP4-IgG-positive and MOG-IgG-positive neuromyelitis optica spectrum disorders. <i>Multiple Sclerosis Journal - Experimental, Translational and Clinical</i> , 2018, 4, 205521731879668.	1.0	40
42	Comparison of probabilistic tractography and tract-based spatial statistics for assessing optic radiation damage in patients with autoimmune inflammatory disorders of the central nervous system. <i>NeuroImage: Clinical</i> , 2018, 19, 538-550.	2.7	40
43	Timing of brain computed tomography and accuracy of outcome prediction after cardiac arrest. <i>Resuscitation</i> , 2019, 145, 8-14.	3.0	40
44	Early focal brain injury after subarachnoid hemorrhage correlates with spreading depolarizations. <i>Neurology</i> , 2019, 92, e326-e341.	1.1	40
45	Reading words, seeing style: The neuropsychology of word, font and handwriting perception. <i>Neuropsychologia</i> , 2010, 48, 3868-3877.	1.6	39
46	Retinal nerve fibre layer thickness correlates with brain white matter damage in multiple sclerosis: A combined optical coherence tomography and diffusion tensor imaging study. <i>Multiple Sclerosis Journal</i> , 2014, 20, 1904-1907.	3.0	36
47	Diffusion tensor imaging for multilevel assessment of the visual pathway: possibilities for personalized outcome prediction in autoimmune disorders of the central nervous system. <i>EPMA Journal</i> , 2017, 8, 279-294.	6.1	35
48	Paper-based 3D printing of anthropomorphic CT phantoms: Feasibility of two construction techniques. <i>European Radiology</i> , 2019, 29, 1384-1390.	4.5	35
49	Standardization of T1w/T2w Ratio Improves Detection of Tissue Damage in Multiple Sclerosis. <i>Frontiers in Neurology</i> , 2019, 10, 334.	2.4	31
50	¹ H-MR spectroscopy in ultra-high risk and first episode stages of schizophrenia. <i>Journal of Psychiatric Research</i> , 2011, 45, 1135-1139.	3.1	30
51	Nociceptive activation in spinal cord and brain persists during deep general anaesthesia. <i>British Journal of Anaesthesia</i> , 2018, 121, 291-302.	3.4	30
52	Stress-induced brain activity, brain atrophy, and clinical disability in multiple sclerosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13444-13449.	7.1	29
53	N-acetylglucosamine drives myelination by triggering oligodendrocyte precursor cell differentiation. <i>Journal of Biological Chemistry</i> , 2020, 295, 17413-17424.	3.4	29
54	Eye movement and diffusion tensor imaging analysis of treatment effects in a Niemann-Pick Type C patient. <i>Molecular Genetics and Metabolism</i> , 2010, 99, 291-295.	1.1	27

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55	Enlarging the Nosological Spectrum of Hereditary Diffuse Leukoencephalopathy with Axonal Spheroids (<scp>HDLS</scp>). Brain Pathology, 2014, 24, 452-458.	4.1	27
56	Osteitis: a retrospective feasibility study comparing single-source dual-energy CT to MRI in selected patients with suspected acute gout. Skeletal Radiology, 2017, 46, 185-190.	2.0	27
57	Excitotoxicity and Metabolic Changes in Association With Infarct Progression. Stroke, 2014, 45, 1183-1185.	2.0	25
58	Effects of propofol anesthesia on the processing of noxious stimuli in the spinal cord and the brain. Neurolmage, 2018, 172, 642-653.	4.2	25
59	Evaluation of the "ring sign"™ and the "core sign"™ as a magnetic resonance imaging marker of disease activity and progression in clinically isolated syndrome and early multiple sclerosis. Multiple Sclerosis Journal - Experimental, Translational and Clinical, 2020, 6, 205521732091548.	1.0	25
60	Reduced Myelin Water in the White Matter Tracts of Patients with Niemann-Pick Disease Type C. American Journal of Neuroradiology, 2016, 37, 1487-1489.	2.4	24
61	Simulation of spreading depolarization trajectories in cerebral cortex: Correlation of velocity and susceptibility in patients with aneurysmal subarachnoid hemorrhage. Neurolmage: Clinical, 2017, 16, 524-538.	2.7	22
62	Complications in Aneurysmal Subarachnoid Hemorrhage Patients With and Without Subdural Electrode Strip for Electrocorticography. Journal of Clinical Neurophysiology, 2016, 33, 250-259.	1.7	21
63	A radiopaque 3D printed, anthropomorphic phantom for simulation of CT-guided procedures. European Radiology, 2018, 28, 4818-4823.	4.5	20
64	Attack-related damage of thalamic nuclei in neuromyelitis optica spectrum disorders. Journal of Neurology, Neurosurgery and Psychiatry, 2019, 90, 1156-1164.	1.9	20
65	Quantitative Multi-Parameter Mapping Optimized for the Clinical Routine. Frontiers in Neuroscience, 2020, 14, 611194.	2.8	19
66	The Hijdra scale has significant prognostic value for the functional outcome of Fisher grade 3 patients with subarachnoid hemorrhage. Clinical Neuroradiology, 2017, 27, 361-369.	1.9	17
67	Vision and Vision-Related Measures in Progressive Multiple Sclerosis. Frontiers in Neurology, 2019, 10, 455.	2.4	17
68	3D printing of anatomically realistic phantoms with detection tasks to assess the diagnostic performance of CT images. European Radiology, 2020, 30, 4557-4563.	4.5	16
69	Pregabalin in Patients With Antidepressant Treatment-Resistant Somatoform Disorders. Journal of Clinical Psychopharmacology, 2007, 27, 537-539.	1.4	15
70	Functional organisation of visual pathways in a patient with no optic chiasm. Neuropsychologia, 2013, 51, 1260-1272.	1.6	15
71	Imaging markers of disability in aquaporin-4 immunoglobulin G seropositive neuromyelitis optica: a graph theory study. Brain Communications, 2019, 1, fcz026.	3.3	15
72	Vitamin D and Disease Severity in Multiple Sclerosis—Baseline Data From the Randomized Controlled Trial (EVIDIMS). Frontiers in Neurology, 2020, 11, 129.	2.4	15

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73	MTR abnormalities in subjects at ultra-high risk for schizophrenia and first-episode schizophrenic patients compared to healthy controls. <i>Schizophrenia Research</i> , 2012, 137, 85-90.	2.0	14
74	MRI Markers and Functional Performance in Patients With CIS and MS: A Cross-Sectional Study. <i>Frontiers in Neurology</i> , 2018, 9, 718.	2.4	14
75	7 Tesla MRI of Balo's concentric sclerosis versus multiple sclerosis lesions. <i>Annals of Clinical and Translational Neurology</i> , 2018, 5, 900-912.	3.7	14
76	Ventral posterior nucleus volume is associated with neuropathic pain intensity in neuromyelitis optica spectrum disorders. <i>Multiple Sclerosis and Related Disorders</i> , 2020, 46, 102579.	2.0	14
77	Differences in Advanced Magnetic Resonance Imaging in MOG-IgG and AQP4-IgG Seropositive Neuromyelitis Optica Spectrum Disorders: A Comparative Study. <i>Frontiers in Neurology</i> , 2020, 11, 499910.	2.4	14
78	Serum neurofilament light chain concentration predicts disease worsening in multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2022, 28, 1859-1870.	3.0	14
79	MRI-Based Methods for Spinal Cord Atrophy Evaluation: A Comparison of Cervical Cord Cross-Sectional Area, Cervical Cord Volume, and Full Spinal Cord Volume in Patients with Aquaporin-4 Antibody Seropositive Neuromyelitis Optica Spectrum Disorders. <i>American Journal of Neuroradiology</i> , 2018, 39, 1362-1368.	2.4	13
80	Spinocerebellar ataxia type 14: refining clinicogenetic diagnosis in a rare adult-onset disorder. <i>Annals of Clinical and Translational Neurology</i> , 2021, 8, 774-789.	3.7	13
81	Automated Assessment of Brain CT After Cardiac Arrest—An Observational Derivation/Validation Cohort Study. <i>Critical Care Medicine</i> , 2021, 49, e1212-e1222.	0.9	13
82	Transient enlargement of brain ventricles during relapsing-remitting multiple sclerosis and experimental autoimmune encephalomyelitis. <i>JCI Insight</i> , 2020, 5, .	5.0	13
83	Association Between Thrombus Perviousness Assessed on Computed Tomography and Stroke Cause. <i>Stroke</i> , 2020, 51, 3613-3622.	2.0	12
84	Epigallocatechin Gallate in Progressive MS. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2021, 8, .	6.0	12
85	Longitudinal analysis of T1w/T2w ratio in patients with multiple sclerosis from first clinical presentation. <i>Multiple Sclerosis Journal</i> , 2021, 27, 2180-2190.	3.0	12
86	Effects of short-term stress-like cortisol on cerebral metabolism: A proton magnetic resonance spectroscopy study at 3.0 T. <i>Journal of Psychiatric Research</i> , 2010, 44, 521-526.	3.1	11
87	The influence of lumbar spinal drainage on diffusion parameters in patients with suspected normal pressure hydrocephalus using 3T MRI. <i>Acta Radiologica</i> , 2014, 55, 622-630.	1.1	11
88	Transdiagnostic hippocampal damage patterns in neuroimmunological disorders. <i>NeuroImage: Clinical</i> , 2020, 28, 102515.	2.7	11
89	A case of persistent visual hallucinations of faces following LSD abuse: A functional Magnetic Resonance Imaging study. <i>Neurocase</i> , 2010, 16, 106-118.	0.6	10
90	Blunted neural and psychological stress processing predicts future grey matter atrophy in multiple sclerosis. <i>Neurobiology of Stress</i> , 2020, 13, 100244.	4.0	10

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91	Movement disorders after hypoxic brain injury following cardiac arrest in adults. European Journal of Neurology, 2020, 27, 1937-1947.	3.3	10
92	Fingolimod after a first unilateral episode of acute optic neuritis (MOVING) – preliminary results from a randomized, rater-blind, active-controlled, phase 2 trial. BMC Neurology, 2020, 20, 75.	1.8	10
93	Teaching Neuro Images : Head banging without head trauma. Neurology, 2011, 76, e60.	1.1	9
94	Visual system damage and network maladaptation are associated with cognitive performance in neuromyelitis optica spectrum disorders.. Multiple Sclerosis and Related Disorders, 2020, 45, 102406.	2.0	9
95	Optic chiasm measurements may be useful markers of anterior optic pathway degeneration in neuromyelitis optica spectrum disorders. European Radiology, 2020, 30, 5048-5058.	4.5	9
96	Lateral geniculate nucleus volume changes after optic neuritis in neuromyelitis optica: A longitudinal study. NeuroImage: Clinical, 2021, 30, 102608.	2.7	9
97	In vivo stiffness of multiple sclerosis lesions is similar to that of normal-appearing white matter. Acta Biomaterialia, 2022, 138, 410-421.	8.3	9
98	Cortical topological network changes following optic neuritis. Neurology: Neuroimmunology and Neuroinflammation, 2020, 7, e687.	6.0	8
99	Anti-NMDA receptor antibodies in a case of MELAS syndrome. Journal of Neurology, 2012, 259, 582-584.	3.6	7
100	Diffusion Tensor Imaging in Amyotrophic Lateral Sclerosis – Increased Sensitivity with Optimized Region-of-Interest Delineation. Clinical Neuroradiology, 2014, 24, 37-42.	1.9	7
101	A case report of delayed cortical infarction adjacent to sulcal clots after traumatic subarachnoid hemorrhage in the absence of proximal vasospasm. BMC Neurology, 2018, 18, 210.	1.8	7
102	Development of a method to create uniform phantoms for task-based assessment of CT image quality. Journal of Applied Clinical Medical Physics, 2020, 21, 201-208.	1.9	7
103	Considerations for Mean Upper Cervical Cord Area Implementation in a Longitudinal MRI Setting: Methods, Interrater Reliability, and MRI Quality Control. American Journal of Neuroradiology, 2020, 41, 343-350.	2.4	7
104	Central stress processing, T-cell responsivity to stress hormones and disease severity in multiple sclerosis. Brain Communications, 2022, 4, faac086.	3.3	7
105	What is the role of the subventricular zone in radiotherapy of glioblastoma patients?. Radiotherapy and Oncology, 2021, 158, 138-145.	0.6	6
106	Building a Medical Research Cloud in the EASI-CLOUDS Project. , 2014, , .		4
107	Task-based assessment of neck CT protocols using patient-mimicking phantoms – effects of protocol parameters on dose and diagnostic performance. European Radiology, 2021, 31, 3177-3186.	4.5	4
108	Comparison of low-contrast detectability between uniform and anatomically realistic phantoms – influences on CT image quality assessment. European Radiology, 2021, , 1.	4.5	4

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109	Evaluation of Intracranial Electroencephalography Recording Strips and Tissue Partial Pressure of Oxygen and Temperature Probes for Radio-Frequency-Induced Heating. <i>Acta Neurochirurgica Supplementum</i> , 2013, 115, 149-152.	1.0	4
110	Building a medical research cloud in the EASI-CLOUDS project. <i>Concurrency Computation Practice and Experience</i> , 2015, 27, 4465-4477.	2.2	3
111	No Association Between Thrombus Perviousness and Cardioembolic Stroke Etiology in Basilar Artery Occlusion Stroke. <i>Frontiers in Neurology</i> , 2021, 12, 712449.	2.4	3
112	Characterization of office laser printers for 3-D printing of soft tissue CT phantoms. <i>Journal of Medical Imaging</i> , 2019, 6, 1.	1.5	3
113	Histopathologic Assessment of Neurotoxicity after Repeated Administration of Gadodiamide in Healthy Rats. <i>Radiology</i> , 2017, 282, 925-926.	7.3	2
114	Influence of fractional anisotropy thresholds on diffusion tensor imaging tractography of the periprosthetic neurovascular bundle and selected pelvic tissues: do visualized tracts really represent nerves?. <i>Acta Radiologica</i> , 2017, 58, 472-480.	1.1	2
115	MRI Findings Suggestive of Herpes Simplex Encephalitis in Patients with Anti-NMDA Receptor Encephalitis. <i>American Journal of Neuroradiology</i> , 2018, 39, E120-E120.	2.4	2
116	Single-subject independent component analysis-based intensity normalization in non-quantitative multi-modal structural MRI. <i>Human Brain Mapping</i> , 2017, 38, 3615-3622.	3.6	1
117	Scout-guided needle placement—a technical approach for dose reduction in CT-guided periradicular infiltration. <i>Neuroradiology</i> , 2020, 62, 341-346.	2.2	1
118	Dual-energy computed tomography of the neck—optimizing tube current settings and radiation dose using a 3D-printed patient phantom. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021, 11, 1144-1155.	2.0	1
119	Diffusion-Based MRI: Imaging Basics and Clinical Applications. , 2018, , 383-393.		0
120	Training of CT-guided Periradicular Therapy in a Realistic Simulation Environment — Evaluation and Recommendations for a Training Curriculum. <i>Academic Radiology</i> , 2021, 28, 1296-1303.	2.5	0
121	Neurochemical Differences in Spinocerebellar Ataxia Type 14 and 1. <i>Cerebellum</i> , 2021, 20, 169-178.	2.5	0
122	Membrane Potential as Stroke Target. , 2012, , 295-303.		0
123	Three-dimensional simulator: training for beginners in endovascular embolization with liquid agents. <i>CVIR Endovascular</i> , 2021, 4, 78.	1.1	0