

# Michael Scheel

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4073836/publications.pdf>

Version: 2024-02-01

123  
papers

4,733  
citations

100601

38  
h-index

134545

62  
g-index

129  
all docs

129  
docs citations

129  
times ranked

7565  
citing authors

#	ARTICLE	IF	CITATIONS
1	In vivo stiffness of multiple sclerosis lesions is similar to that of normal-appearing white matter. <i>Acta Biomaterialia</i> , 2022, 138, 410-421.	4.1	9
2	Spreading depolarizations in ischaemia after subarachnoid haemorrhage, a diagnostic phase III study. <i>Brain</i> , 2022, 145, 1264-1284.	3.7	41
3	Central stress processing, T-cell responsivity to stress hormones and disease severity in multiple sclerosis. <i>Brain Communications</i> , 2022, 4, fcac086.	1.5	7
4	Serum neurofilament light chain concentration predicts disease worsening in multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2022, 28, 1859-1870.	1.4	14
5	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.	1.3	0
6	Task-based assessment of neck CT protocols using patient-mimicking phantoms – effects of protocol parameters on dose and diagnostic performance. <i>European Radiology</i> , 2021, 31, 3177-3186.	2.3	4
7	Neurochemical Differences in Spinocerebellar Ataxia Type 14 and 1. <i>Cerebellum</i> , 2021, 20, 169-178.	1.4	0
8	Epigallocatechin Gallate in Progressive MS. <i>Neurology: Neuroimmunology and Neuroinflammation</i> , 2021, 8, .	3.1	12
9	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.	1.7	13
10	Longitudinal analysis of T1w/T2w ratio in patients with multiple sclerosis from first clinical presentation. <i>Multiple Sclerosis Journal</i> , 2021, 27, 2180-2190.	1.4	12
11	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.	1.1	1
12	What is the role of the subventricular zone in radiotherapy of glioblastoma patients?. <i>Radiotherapy and Oncology</i> , 2021, 158, 138-145.	0.3	6
13	Automated Assessment of Brain CT After Cardiac Arrest – An Observational Derivation/Validation Cohort Study. <i>Critical Care Medicine</i> , 2021, 49, e1212-e1222.	0.4	13
14	No Association Between Thrombus Perviousness and Cardioembolic Stroke Etiology in Basilar Artery Occlusion Stroke. <i>Frontiers in Neurology</i> , 2021, 12, 712449.	1.1	3
15	Comparison of low-contrast detectability between uniform and anatomically realistic phantoms – influences on CT image quality assessment. <i>European Radiology</i> , 2021, , 1.	2.3	4
16	Lateral geniculate nucleus volume changes after optic neuritis in neuromyelitis optica: A longitudinal study. <i>NeuroImage: Clinical</i> , 2021, 30, 102608.	1.4	9
17	Three-dimensional simulator: training for beginners in endovascular embolization with liquid agents. <i>CVIR Endovascular</i> , 2021, 4, 78.	0.4	0
18	Scout-guided needle placement – a technical approach for dose reduction in CT-guided periradicular infiltration. <i>Neuroradiology</i> , 2020, 62, 341-346.	1.1	1

#	ARTICLE	IF	CITATIONS
19	Association Between Thrombus Perviousness Assessed on Computed Tomography and Stroke Cause. <i>Stroke</i> , 2020, 51, 3613-3622.	1.0	12
20	N-acetylglucosamine drives myelination by triggering oligodendrocyte precursor cell differentiation. <i>Journal of Biological Chemistry</i> , 2020, 295, 17413-17424.	1.6	29
21	Blunted neural and psychological stress processing predicts future grey matter atrophy in multiple sclerosis. <i>Neurobiology of Stress</i> , 2020, 13, 100244.	1.9	10
22	Visual system damage and network maladaptation are associated with cognitive performance in neuromyelitis optica spectrum disorders.. <i>Multiple Sclerosis and Related Disorders</i> , 2020, 45, 102406.	0.9	9
23	Beneficial effects of autologous mesenchymal stem cell transplantation in active progressive multiple sclerosis. <i>Brain</i> , 2020, 143, 3574-3588.	3.7	110
24	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.	0.9	14
25	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.	1.1	14
26	Development of a method to create uniform phantoms for task-based assessment of CT image quality. <i>Journal of Applied Clinical Medical Physics</i> , 2020, 21, 201-208.	0.8	7
27	Sex differences in brain atrophy in multiple sclerosis. <i>Biology of Sex Differences</i> , 2020, 11, 49.	1.8	51
28	Quantitative Multi-Parameter Mapping Optimized for the Clinical Routine. <i>Frontiers in Neuroscience</i> , 2020, 14, 611194.	1.4	19
29	Movement disorders after hypoxic brain injury following cardiac arrest in adults. <i>European Journal of Neurology</i> , 2020, 27, 1937-1947.	1.7	10
30	Vitamin D and Disease Severity in Multiple Sclerosis—Baseline Data From the Randomized Controlled Trial (EVIDIMS). <i>Frontiers in Neurology</i> , 2020, 11, 129.	1.1	15
31	Fingolimod after a first unilateral episode of acute optic neuritis (MOVING) – preliminary results from a randomized, rater-blind, active-controlled, phase 2 trial. <i>BMC Neurology</i> , 2020, 20, 75.	0.8	10
32	3D printing of anatomically realistic phantoms with detection tasks to assess the diagnostic performance of CT images. <i>European Radiology</i> , 2020, 30, 4557-4563.	2.3	16
33	Optic chiasm measurements may be useful markers of anterior optic pathway degeneration in neuromyelitis optica spectrum disorders. <i>European Radiology</i> , 2020, 30, 5048-5058.	2.3	9
34	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. <i>Multiple Sclerosis Journal - Experimental, Translational and Clinical</i> , 2020, 6, 205521732091548.	0.5	25
35	Cortical topological network changes following optic neuritis. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2020, 7, e687.	3.1	8
36	Considerations for Mean Upper Cervical Cord Area Implementation in a Longitudinal MRI Setting: Methods, Interrater Reliability, and MRI Quality Control. <i>American Journal of Neuroradiology</i> , 2020, 41, 343-350.	1.2	7

#	ARTICLE	IF	CITATIONS
37	Transdiagnostic hippocampal damage patterns in neuroimmunological disorders. <i>NeuroImage: Clinical</i> , 2020, 28, 102515.	1.4	11
38	Transient enlargement of brain ventricles during relapsing-remitting multiple sclerosis and experimental autoimmune encephalomyelitis. <i>JCI Insight</i> , 2020, 5, .	2.3	13
39	Paper-based 3D printing of anthropomorphic CT phantoms: Feasibility of two construction techniques. <i>European Radiology</i> , 2019, 29, 1384-1390.	2.3	35
40	Deep brain stimulation induced normalization of the human functional connectome in Parkinson's disease. <i>Brain</i> , 2019, 142, 3129-3143.	3.7	109
41	Imaging markers of disability in aquaporin-4 immunoglobulin G seropositive neuromyelitis optica: a graph theory study. <i>Brain Communications</i> , 2019, 1, fcz026.	1.5	15
42	Timing of brain computed tomography and accuracy of outcome prediction after cardiac arrest. <i>Resuscitation</i> , 2019, 145, 8-14.	1.3	40
43	Intrathecal IgM production is a strong risk factor for early conversion to multiple sclerosis. <i>Neurology</i> , 2019, 93, e1439-e1451.	1.5	43
44	Uncovering convolutional neural network decisions for diagnosing multiple sclerosis on conventional MRI using layer-wise relevance propagation. <i>NeuroImage: Clinical</i> , 2019, 24, 102003.	1.4	93
45	Attack-related damage of thalamic nuclei in neuromyelitis optica spectrum disorders. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2019, 90, 1156-1164.	0.9	20
46	Early blood-brain barrier dysfunction predicts neurological outcome following aneurysmal subarachnoid hemorrhage. <i>EBioMedicine</i> , 2019, 43, 460-472.	2.7	52
47	Vision and Vision-Related Measures in Progressive Multiple Sclerosis. <i>Frontiers in Neurology</i> , 2019, 10, 455.	1.1	17
48	Standardization of T1w/T2w Ratio Improves Detection of Tissue Damage in Multiple Sclerosis. <i>Frontiers in Neurology</i> , 2019, 10, 334.	1.1	31
49	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.	0.9	44
50	Early focal brain injury after subarachnoid hemorrhage correlates with spreading depolarizations. <i>Neurology</i> , 2019, 92, e326-e341.	1.5	40
51	Spinal cord lesions and atrophy in NMOSD with AQP4-IgG and MOG-IgG associated autoimmunity. <i>Multiple Sclerosis Journal</i> , 2019, 25, 1926-1936.	1.4	47
52	Multiple sclerosis-related fatigue: Altered resting-state functional connectivity of the ventral striatum and dorsolateral prefrontal cortex. <i>Multiple Sclerosis Journal</i> , 2019, 25, 554-564.	1.4	69
53	Characterization of office laser printers for 3-D printing of soft tissue CT phantoms. <i>Journal of Medical Imaging</i> , 2019, 6, 1.	0.8	3
54	Diffusion-Based MRI: Imaging Basics and Clinical Applications. , 2018, , 383-393.		0

#	ARTICLE	IF	CITATIONS
55	Association of Retinal Ganglion Cell Layer Thickness With Future Disease Activity in Patients With Clinically Isolated Syndrome. <i>JAMA Neurology</i> , 2018, 75, 1071.	4.5	72
56	Effects of propofol anesthesia on the processing of noxious stimuli in the spinal cord and the brain. <i>NeuroImage</i> , 2018, 172, 642-653.	2.1	25
57	Diagnosis and Treatment of NMO Spectrum Disorder and MOG-Encephalomyelitis. <i>Frontiers in Neurology</i> , 2018, 9, 888.	1.1	194
58	A case report of delayed cortical infarction adjacent to sulcal clots after traumatic subarachnoid hemorrhage in the absence of proximal vasospasm. <i>BMC Neurology</i> , 2018, 18, 210.	0.8	7
59	MRI Markers and Functional Performance in Patients With CIS and MS: A Cross-Sectional Study. <i>Frontiers in Neurology</i> , 2018, 9, 718.	1.1	14
60	MRI Findings Suggestive of Herpes Simplex Encephalitis in Patients with Anti-NMDA Receptor Encephalitis. <i>American Journal of Neuroradiology</i> , 2018, 39, E120-E120.	1.2	2
61	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.	0.5	40
62	A radiopaque 3D printed, anthropomorphic phantom for simulation of CT-guided procedures. <i>European Radiology</i> , 2018, 28, 4818-4823.	2.3	20
63	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.	1.4	40
64	Nociceptive activation in spinal cord and brain persists during deep general anaesthesia. <i>British Journal of Anaesthesia</i> , 2018, 121, 291-302.	1.5	30
65	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.	1.2	13
66	7 Tesla MRI of Balo's concentric sclerosis versus multiple sclerosis lesions. <i>Annals of Clinical and Translational Neurology</i> , 2018, 5, 900-912.	1.7	14
67	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.	2.4	255
68	The Hijdra scale has significant prognostic value for the functional outcome of Fisher grade 3 patients with subarachnoid hemorrhage. <i>Clinical Neuroradiology</i> , 2017, 27, 361-369.	1.0	17
69	Microstructural visual system changes in AQP4-antibody seropositive NMOSD. <i>Neurology: Neuroimmunology and Neuroinflammation</i> , 2017, 4, e334.	3.1	128
70	Histopathologic Assessment of Neurotoxicity after Repeated Administration of Gadodiamide in Healthy Rats. <i>Radiology</i> , 2017, 282, 925-926.	3.6	2
71	Single-subject independent component analysis-based intensity normalization in non-quantitative multi-modal structural MRI. <i>Human Brain Mapping</i> , 2017, 38, 3615-3622.	1.9	1
72	Simulation of spreading depolarization trajectories in cerebral cortex: Correlation of velocity and susceptibility in patients with aneurysmal subarachnoid hemorrhage. <i>NeuroImage: Clinical</i> , 2017, 16, 524-538.	1.4	22

#	ARTICLE	IF	CITATIONS
73	Diffusion tensor imaging for multilevel assessment of the visual pathway: possibilities for personalized outcome prediction in autoimmune disorders of the central nervous system. EPMA Journal, 2017, 8, 279-294.	3.3	35
74	Gadopentetate but not gadobutrol accumulates in the dentate nucleus of multiple sclerosis patients. Multiple Sclerosis Journal, 2017, 23, 963-972.	1.4	65
75	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.	1.2	27
76	Radiopaque Three-dimensional Printing: A Method to Create Realistic CT Phantoms. Radiology, 2017, 282, 569-575.	3.6	47
77	Influence of fractional anisotropy thresholds on diffusion tensor imaging tractography of the periprostatic neurovascular bundle and selected pelvic tissues: do visualized tracts really represent nerves?. Acta Radiologica, 2017, 58, 472-480.	0.5	2
78	Reduced Myelin Water in the White Matter Tracts of Patients with Niemann-Pick Disease Type C. American Journal of Neuroradiology, 2016, 37, 1487-1489.	1.2	24
79	Three-parameter shear wave inversion in MR elastography of incompressible transverse isotropic media: Application to in vivo lower leg muscles. Magnetic Resonance in Medicine, 2016, 75, 1537-1545.	1.9	47
80	Stress-induced brain activity, brain atrophy, and clinical disability in multiple sclerosis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13444-13449.	3.3	29
81	Complications in Aneurysmal Subarachnoid Hemorrhage Patients With and Without Subdural Electrode Strip for Electrooculography. Journal of Clinical Neurophysiology, 2016, 33, 250-259.	0.9	21
82	Brain parenchymal damage in neuromyelitis optica spectrum disorder – A multimodal MRI study. European Radiology, 2016, 26, 4413-4422.	2.3	45
83	Building a medical research cloud in the EASI-CLOUDS project. Concurrency Computation Practice and Experience, 2015, 27, 4465-4477.	1.4	3
84	Altered basal ganglia functional connectivity in multiple sclerosis patients with fatigue. Multiple Sclerosis Journal, 2015, 21, 925-934.	1.4	147
85	Outcome Prediction in Patients After Cardiac Arrest: A Simplified Method for Determination of Gray-White Matter Ratio in Cranial Computed Tomography. Clinical Neuroradiology, 2015, 25, 49-54.	1.0	50
86	Enlarging the Nosological Spectrum of Hereditary Diffuse Leukoencephalopathy with Axonal Spheroids (<sc>HDLS</sc>). Brain Pathology, 2014, 24, 452-458.	2.1	27
87	In vivo waveguide elastography: Effects of neurodegeneration in patients with amyotrophic lateral sclerosis. Magnetic Resonance in Medicine, 2014, 72, 1755-1761.	1.9	58
88	The influence of lumbar spinal drainage on diffusion parameters in patients with suspected normal pressure hydrocephalus using 3T MRI. Acta Radiologica, 2014, 55, 622-630.	0.5	11
89	Excitotoxicity and Metabolic Changes in Association With Infarct Progression. Stroke, 2014, 45, 1183-1185.	1.0	25
90	Diffusion Tensor Imaging in Amyotrophic Lateral Sclerosis – Increased Sensitivity with Optimized Region-of-Interest Delineation. Clinical Neuroradiology, 2014, 24, 37-42.	1.0	7

#	ARTICLE	IF	CITATIONS
91	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.	1.4	36
92	Building a Medical Research Cloud in the EASI-CLOUDS Project. , 2014, , .		4
93	Cerebral magnetic resonance elastography in supranuclear palsy and idiopathic Parkinson's disease. <i>NeuroImage: Clinical</i> , 2013, 3, 381-387.	1.4	76
94	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.	1.1	77
95	Functional organisation of visual pathways in a patient with no optic chiasm. <i>Neuropsychologia</i> , 2013, 51, 1260-1272.	0.7	15
96	Myelination deficits in schizophrenia: evidence from diffusion tensor imaging. <i>Brain Structure and Function</i> , 2013, 218, 151-156.	1.2	47
97	Functional and structural brain changes in anti- $\epsilon$ -methyl- $\Delta$ -aspartate receptor encephalitis. <i>Annals of Neurology</i> , 2013, 74, 284-296.	2.8	167
98	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.	1.9	73
99	Fiber type characterization in skeletal muscle by diffusion tensor imaging. <i>NMR in Biomedicine</i> , 2013, 26, 1220-1224.	1.6	52
100	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.	2.0	158
101	Towards an Elastographic Atlas of Brain Anatomy. <i>PLoS ONE</i> , 2013, 8, e71807.	1.1	106
102	Evaluation of Intracranial Electrooculography 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.	0.5	4
103	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.	1.6	47
104	Spreading convulsions, spreading depolarization and epileptogenesis in human cerebral cortex. <i>Brain</i> , 2012, 135, 259-275.	3.7	211
105	Correlates of spreading depolarization in human scalp electroencephalography. <i>Brain</i> , 2012, 135, 853-868.	3.7	126
106	Magnetic Resonance Imaging in Transient Global Amnesia. <i>Clinical Neuroradiology</i> , 2012, 22, 335-340.	1.0	43
107	Diffusion tensor imaging in hydrocephalus—findings before and after shunt surgery. <i>Acta Neurochirurgica</i> , 2012, 154, 1699-1706.	0.9	54
108	Impaired neurovascular coupling to ictal epileptic activity and spreading depolarization in a patient with subarachnoid hemorrhage: Possible link to blood-brain barrier dysfunction. <i>Epilepsia</i> , 2012, 53, 22-30.	2.6	51



#	ARTICLE	IF	CITATIONS
109	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.	1.1	14
110	In vivo waveguide elastography of white matter tracts in the human brain. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1410-1422.	1.9	110
111	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.	1.7	82
112	Anti-NMDA receptor antibodies in a case of MELAS syndrome. <i>Journal of Neurology</i> , 2012, 259, 582-584.	1.8	7
113	Membrane Potential as Stroke Target. , 2012, , 295-303.		0
114	1H-MR spectroscopy in ultra-high risk and first episode stages of schizophrenia. <i>Journal of Psychiatric Research</i> , 2011, 45, 1135-1139.	1.5	30
115	Teaching Neuro <i>Images</i> : Head banging without head trauma. <i>Neurology</i> , 2011, 76, e60.	1.5	9
116	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.	1.5	11
117	Reading words, seeing style: The neuropsychology of word, font and handwriting perception. <i>Neuropsychologia</i> , 2010, 48, 3868-3877.	0.7	39
118	Acute exercise ameliorates reduced brain-derived neurotrophic factor in patients with panic disorder. <i>Psychoneuroendocrinology</i> , 2010, 35, 364-368.	1.3	113
119	A case of persistent visual hallucinations of faces following LSD abuse: A functional Magnetic Resonance Imaging study. <i>Neurocase</i> , 2010, 16, 106-118.	0.2	10
120	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.	0.5	27
121	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.	1.5	85
122	Blunted ACTH response to dexamethasone suppression-CRH stimulation in posttraumatic stress disorder. <i>Journal of Psychiatric Research</i> , 2008, 42, 1185-1188.	1.5	53
123	Pregabalin in Patients With Antidepressant Treatment-Resistant Somatoform Disorders. <i>Journal of Clinical Psychopharmacology</i> , 2007, 27, 537-539.	0.7	15