

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

87886

38
h-index

118840

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 -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

#	ARTICLE	IF	CITATIONS
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 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.	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 hydrocephalus 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 blood-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 Gray-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	Three-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 – A multimodal MRI study. <i>European Radiology</i> , 2016, 26, 4413-4422.	4.5	45

#	ARTICLE	IF	CITATIONS
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

#	ARTICLE	IF	CITATIONS
55	Enlarging the Nosological Spectrum of Hereditary Diffuse Leukoencephalopathy with Axonal Spheroids (<scp>HDLS</scp>). <i>Brain Pathology</i> , 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. <i>Skeletal Radiology</i> , 2017, 46, 185-190.	2.0	27
57	Excitotoxicity and Metabolic Changes in Association With Infarct Progression. <i>Stroke</i> , 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. <i>NeuroImage</i> , 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. <i>Multiple Sclerosis Journal - Experimental, Translational and Clinical</i> , 2020, 6, 205521732091548.	1.0	25
60	Reduced Myelin Water in the White Matter Tracts of Patients with Niemann-Pick Disease Type C. <i>American Journal of Neuroradiology</i> , 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. <i>NeuroImage: Clinical</i> , 2017, 16, 524-538.	2.7	22
62	Complications in Aneurysmal Subarachnoid Hemorrhage Patients With and Without Subdural Electrode Strip for Electrocorticography. <i>Journal of Clinical Neurophysiology</i> , 2016, 33, 250-259.	1.7	21
63	A radiopaque 3D printed, anthropomorphic phantom for simulation of CT-guided procedures. <i>European Radiology</i> , 2018, 28, 4818-4823.	4.5	20
64	Attack-related damage of thalamic nuclei in neuromyelitis optica spectrum disorders. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2019, 90, 1156-1164.	1.9	20
65	Quantitative Multi-Parameter Mapping Optimized for the Clinical Routine. <i>Frontiers in Neuroscience</i> , 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. <i>Clinical Neuroradiology</i> , 2017, 27, 361-369.	1.9	17
67	Vision and Vision-Related Measures in Progressive Multiple Sclerosis. <i>Frontiers in Neurology</i> , 2019, 10, 455.	2.4	17
68	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.	4.5	16
69	Pregabalin in Patients With Antidepressant Treatment-Resistant Somatoform Disorders. <i>Journal of Clinical Psychopharmacology</i> , 2007, 27, 537-539.	1.4	15
70	Functional organisation of visual pathways in a patient with no optic chiasm. <i>Neuropsychologia</i> , 2013, 51, 1260-1272.	1.6	15
71	Imaging markers of disability in aquaporin-4 immunoglobulin G seropositive neuromyelitis optica: a graph theory study. <i>Brain Communications</i> , 2019, 1, fcz026.	3.3	15
72	Vitamin D and Disease Severity in Multiple Sclerosis—Baseline Data From the Randomized Controlled Trial (EVIDIMS). <i>Frontiers in Neurology</i> , 2020, 11, 129.	2.4	15

#	ARTICLE	IF	CITATIONS
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

#	ARTICLE	IF	CITATIONS
91	Movement disorders after hypoxic brain injury following cardiac arrest in adults. <i>European Journal of Neurology</i> , 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. <i>BMC Neurology</i> , 2020, 20, 75.	1.8	10
93	Teaching Neuro Images : Head banging without head trauma. <i>Neurology</i> , 2011, 76, e60.	1.1	9
94	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.	2.0	9
95	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.	4.5	9
96	Lateral geniculate nucleus volume changes after optic neuritis in neuromyelitis optica: A longitudinal study. <i>NeuroImage: Clinical</i> , 2021, 30, 102608.	2.7	9
97	In vivo stiffness of multiple sclerosis lesions is similar to that of normal-appearing white matter. <i>Acta Biomaterialia</i> , 2022, 138, 410-421.	8.3	9
98	Cortical topological network changes following optic neuritis. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2020, 7, e687.	6.0	8
99	Anti-NMDA receptor antibodies in a case of MELAS syndrome. <i>Journal of Neurology</i> , 2012, 259, 582-584.	3.6	7
100	Diffusion Tensor Imaging in Amyotrophic Lateral Sclerosis – Increased Sensitivity with Optimized Region-of-Interest Delineation. <i>Clinical Neuroradiology</i> , 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. <i>BMC Neurology</i> , 2018, 18, 210.	1.8	7
102	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.	1.9	7
103	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.	2.4	7
104	Central stress processing, T-cell responsivity to stress hormones and disease severity in multiple sclerosis. <i>Brain Communications</i> , 2022, 4, fcac086.	3.3	7
105	What is the role of the subventricular zone in radiotherapy of glioblastoma patients?. <i>Radiotherapy and Oncology</i> , 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. <i>European Radiology</i> , 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. <i>European Radiology</i> , 2021, , 1.	4.5	4

#	ARTICLE	IF	CITATIONS
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 periprostatic 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