

# Christoph Scherfler

## List of Publications by Year in descending order

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104  
papers

4,923  
citations

81900

39  
h-index

98798

67  
g-index

104  
all docs

104  
docs citations

104  
times ranked

5342  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Intracerebral Iron Accumulation may be Associated with Secondary Brain Injury in Patients with Poor Grade Subarachnoid Hemorrhage. <i>Neurocritical Care</i> , 2022, 36, 171-179.                                 | 2.4 | 15        |
| 2  | Factors associated with impaired quality of life three months after being diagnosed with COVID-19. <i>Quality of Life Research</i> , 2022, 31, 1401-1414.   | 3.1 | 18        |
| 3  | Cardiac sympathetic innervation in Parkinson's disease versus multiple system atrophy. <i>Clinical Autonomic Research</i> , 2022, 32, 103-114.  | 2.5 | 7         |
| 4  | Qualitative and Quantitative Comparison of Hippocampal Volumetric Software Applications: Do All Roads Lead to Rome?. <i>Biomedicines</i> , 2022, 10, 432.   | 3.2 | 0         |
| 5  | Serum NfL in Alzheimer Dementia: Results of the Prospective Dementia Registry Austria. <i>Medicina (Lithuania)</i> , 2022, 58, 433.   | 2.0 | 5         |
| 6  | <sc>HFP</sc> : QSM from homodyne-filtered phase images. <i>Magnetic Resonance in Medicine</i> , 2022, , .   | 3.0 | 2         |
| 7  | Revisiting brain iron deficiency in restless legs syndrome using magnetic resonance imaging. <i>NeuroImage: Clinical</i> , 2022, 34, 103024.  | 2.7 | 7         |
| 8  | Characterization and diagnostic potential of R2* in early-stage progressive supranuclear palsy variants. <i>Parkinsonism and Related Disorders</i> , 2022, 101, 43-48.  | 2.2 | 5         |
| 9  | Functional connectivity and topology in patients with restless legs syndrome: a case-control resting-state functional magnetic resonance imaging study. <i>European Journal of Neurology</i> , 2021, 28, 448-458. | 3.3 | 24        |
| 10 | Diagnostic accuracy of MR planimetry in clinically unclassifiable parkinsonism. <i>Parkinsonism and Related Disorders</i> , 2021, 82, 87-91.  | 2.2 | 16        |
| 11 | Automated Analysis of Diffusion-Weighted <sc>Magnetic Resonance Imaging</sc> for the Differential Diagnosis of Multiple System Atrophy from Parkinson's Disease. <i>Movement Disorders</i> , 2021, 36, 241-245.   | 3.9 | 15        |
| 12 | Occupation-related effects on motor cortex thickness among older, cognitive healthy individuals. <i>Brain Structure and Function</i> , 2021, 226, 1023-1030.  | 2.3 | 6         |
| 13 | Characterization and diagnostic potential of diffusion tractography in multiple system atrophy. <i>Parkinsonism and Related Disorders</i> , 2021, 85, 30-36.  | 2.2 | 8         |
| 14 | Neurological outcome and quality of life 3 months after COVID-19: A prospective observational cohort study. <i>European Journal of Neurology</i> , 2021, 28, 3348-3359.   | 3.3 | 126       |
| 15 | Automated segmentation of deep brain nuclei using convolutional neural networks and susceptibility weighted imaging. <i>Human Brain Mapping</i> , 2021, 42, 4809-4822.  | 3.6 | 10        |
| 16 | Epileptic aphasia – A critical appraisal. <i>Epilepsy and Behavior</i> , 2021, 121, 108064.   | 1.7 | 5         |
| 17 | Brain Structure and Degeneration Staging in Friedreich Ataxia: <sc>Magnetic Resonance Imaging</sc> Volumetrics from the <sc>ENIGMA-Ataxia</sc> Working Group. <i>Annals of Neurology</i> , 2021, 90, 570-583.     | 5.3 | 27        |
| 18 | Anatomically Standardized Detection of MRI Atrophy Patterns in Early-Stage Alzheimer's Disease. <i>Brain Sciences</i> , 2021, 11, 1491.   | 2.3 | 5         |

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|----|--|-----|-----------|
| 19 | Subarachnoid Hemorrhage is Followed by Pituitary Gland Volume Loss: A Volumetric MRI Observational Study. <i>Neurocritical Care</i> , 2020, 32, 492-501.   | 2.4 | 9         |
| 20 | Impairment of odor discrimination and identification is associated with disability progression and gray matter atrophy of the olfactory system in MS. <i>Multiple Sclerosis Journal</i> , 2020, 26, 706-715. | 3.0 | 14        |
| 21 | Effects of Cognitive Functioning and Education on Later-Life Health Numeracy. <i>Gerontology</i> , 2020, 66, 582-592.  | 2.8 | 10        |
| 22 | Increased behavioral inhibition trait and negative stress coping in non-rapid eye movement parasomnias. <i>Journal of Clinical Sleep Medicine</i> , 2020, 16, 1737-1744.                                     | 2.6 | 5         |
| 23 | Diagnostic potential of automated tractography in progressive supranuclear palsy variants. <i>Parkinsonism and Related Disorders</i> , 2020, 72, 65-71.  | 2.2 | 11        |
| 24 | Cognitive reserve does not support the retrieval of well-known proper names in older people.. <i>Neuropsychology</i> , 2020, 34, 667-674.  | 1.3 | 2         |
| 25 | 0673 Multimodal MRI Reveals Alterations Of Sensorimotor Circuits In Restless Legs Syndrome. <i>Sleep</i> , 2019, 42, A268-A270.  | 1.1 | 0         |
| 26 | Diagnostic Potential of Multimodal MRI Markers in Atypical Parkinsonian Disorders. <i>Journal of Parkinson's Disease</i> , 2019, 9, 681-691.   | 2.8 | 15        |
| 27 | Multimodal Magnetic Resonance Imaging reveals alterations of sensorimotor circuits in restless legs syndrome. <i>Sleep</i> , 2019, 42, .   | 1.1 | 29        |
| 28 | Is an intact hippocampus necessary for answering 3x3? Evidence from Alzheimer's disease. <i>Brain and Cognition</i> , 2019, 134, 1-8.  | 1.8 | 7         |
| 29 | Morphometric MRI profiles of multiple system atrophy variants and implications for differential diagnosis. <i>Movement Disorders</i> , 2019, 34, 1041-1048.  | 3.9 | 36        |
| 30 | Early distinction of Parkinson-variant multiple system atrophy from Parkinson's disease. <i>Movement Disorders</i> , 2019, 34, 440-441.  | 3.9 | 21        |
| 31 | Second language learning induces grey matter volume increase in people with multiple sclerosis. <i>PLoS ONE</i> , 2019, 14, e0226525.  | 2.5 | 9         |
| 32 | The role of exposure to pesticides in the etiology of Parkinson's disease: a 18F-DOPA positron emission tomography study. <i>Journal of Neural Transmission</i> , 2019, 126, 159-166.                        | 2.8 | 2         |
| 33 | The diagnostic accuracy of the hummingbird and morning glory sign in patients with neurodegenerative parkinsonism. <i>Parkinsonism and Related Disorders</i> , 2018, 54, 90-94.                              | 2.2 | 49        |
| 34 | The reorganization of functional architecture in the early-stages of Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2018, 50, 61-68.   | 2.2 | 64        |
| 35 | Diagnostic potential of dentatorubrothalamic tract analysis in progressive supranuclear palsy. <i>Parkinsonism and Related Disorders</i> , 2018, 49, 81-87.  | 2.2 | 27        |
| 36 | MR planimetry in neurodegenerative parkinsonism yields high diagnostic accuracy for PSP. <i>Parkinsonism and Related Disorders</i> , 2018, 46, 47-55.  | 2.2 | 45        |

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|----|---|-----|-----------|
| 37 | Arithmetic learning in advanced age. PLoS ONE, 2018, 13, e0193529.  | 2.5 | 3         |
| 38 | Very late-onset pure autonomic failure. Movement Disorders, 2017, 32, 1106-1108.  | 3.9 | 4         |
| 39 | Gray matter abnormalities of the dorsal posterior cingulate in sleep walking. Sleep Medicine, 2017, 36, 152-155.  | 1.6 | 29        |
| 40 | Sniffing the diagnosis: Olfactory testing in neurodegenerative parkinsonism. Parkinsonism and Related Disorders, 2017, 35, 36-41.   | 2.2 | 67        |
| 41 | Topography of Dopamine Transporter Availability in the Cerebellar Variant of Multiple System Atrophy. Movement Disorders Clinical Practice, 2017, 4, 389-396.                               | 1.5 | 4         |
| 42 | Substantia nigra hyperechogenicity and Parkinson's disease risk in patients with essential tremor. Movement Disorders, 2016, 31, 579-583.   | 3.9 | 17        |
| 43 | Loss of dorsolateral nigral hyperintensity on 3.0 tesla susceptibility-weighted imaging in idiopathic rapid eye movement sleep behavior disorder. Annals of Neurology, 2016, 79, 1026-1030. | 5.3 | 90        |
| 44 | Diagnostic potential of automated subcortical volume segmentation in atypical parkinsonism. Neurology, 2016, 86, 1242-1249.   | 1.1 | 89        |
| 45 | 1.5 Versus 3 tesla magnetic resonance planimetry in neurodegenerative parkinsonism. Movement Disorders, 2016, 31, 1925-1927.  | 3.9 | 8         |
| 46 | Dorsolateral nigral hyperintensity on 3.0T susceptibility-weighted imaging in neurodegenerative Parkinsonism. Movement Disorders, 2015, 30, 1068-1076.                                      | 3.9 | 125       |
| 47 | Potential of Diffusion Tensor Imaging and Relaxometry for the Detection of Specific Pathological Alterations in Parkinson's Disease (PD). PLoS ONE, 2015, 10, e0145493.                     | 2.5 | 14        |
| 48 | Olfactory dysfunction predicts early transition to a Lewy body disease in idiopathic RBD. Neurology, 2015, 84, 654-658.   | 1.1 | 164       |
| 49 | Mortality in Parkinson's disease: A 38-year follow-up study. Movement Disorders, 2015, 30, 266-269.   | 3.9 | 95        |
| 50 | Visualization of nigrosome 1 and its loss in PD: Pathoanatomical correlation and in vivo 7T MRI. Neurology, 2014, 82, 1752-1752.  | 1.1 | 32        |
| 51 | Substantia Nigra Hyperechogenicity as a Marker for Parkinson's Disease: A Population-Based Study. Neurodegenerative Diseases, 2013, 12, 212-218.  | 1.4 | 28        |
| 52 | Correlation of dopaminergic terminal dysfunction and microstructural abnormalities of the basal ganglia and the olfactory tract in Parkinson's disease. Brain, 2013, 136, 3028-3037.        | 7.6 | 52        |
| 53 | Prevalence and Burden of Gait Disorders in Elderly Men and Women Aged 60-97 Years: A Population-Based Study. PLoS ONE, 2013, 8, e69627.   | 2.5 | 151       |
| 54 | Left hemispheric predominance of nigrostriatal dysfunction in Parkinson's disease. Brain, 2012, 135, 3348-3354.   | 7.6 | 95        |

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|----|--|-----|-----------|
| 55 | An antibody microarray analysis of serum cytokines in neurodegenerative Parkinsonian syndromes. <i>Proteome Science</i> , 2012, 10, 71.  | 1.7 | 22        |
| 56 | White and Gray Matter Abnormalities in Narcolepsy with Cataplexy. <i>Sleep</i> , 2012, 35, 345-351.  | 1.1 | 46        |
| 57 | A follow-up study of substantia nigra echogenicity in healthy adults. <i>Movement Disorders</i> , 2012, 27, 1196-1197.   | 3.9 | 17        |
| 58 | Progression of dopamine transporter decline in patients with the Parkinson variant of multiple system atrophy: a voxel-based analysis of [123I]β-CIT SPECT. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2012, 39, 1012-1020.                                 | 6.4 | 40        |
| 59 | A novel computer-assisted image analysis of [123I]β-CIT SPECT images improves the diagnostic accuracy of parkinsonian disorders. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2011, 38, 702-710.  | 6.4 | 27        |
| 60 | White and gray matter abnormalities in idiopathic rapid eye movement sleep behavior disorder: A diffusion tensor imaging and voxel-based morphometry study. <i>Annals of Neurology</i> , 2011, 69, 400-407.  | 5.3 | 203       |
| 61 | Dopaminergic Imaging in Parkinson's Disease: SPECT. , 2011, , 11-20.   |     | 0         |
| 62 | Diagnostic accuracy of the magnetic resonance Parkinsonism index and the midbrain-pontine area ratio to differentiate progressive supranuclear palsy from Parkinson's disease and the Parkinson variant of multiple system atrophy. <i>Movement Disorders</i> , 2010, 25, 2444-2449. | 3.9 | 74        |
| 63 | In vivo assessment of brain monoamine systems in parkin gene carriers: A PET study. <i>Experimental Neurology</i> , 2010, 222, 120-124.  | 4.1 | 25        |
| 64 | Dopamine transporter SPECT: How to remove subjectivity?. <i>Movement Disorders</i> , 2009, 24, S721-4.   | 3.9 | 33        |
| 65 | Supplement neuroimaging movement disorders. <i>Movement Disorders</i> , 2009, 24, S655.  | 3.9 | 1         |
| 66 | Nigrostriatal dysfunction in homozygous and heterozygous parkin gene carriers: An 18F-dopa PET progression study. <i>Movement Disorders</i> , 2009, 24, 2260-2266.   | 3.9 | 44        |
| 67 | Effects of subthalamic nucleus stimulation on striatal dopaminergic transmission in patients with Parkinson's disease within one-year follow-up. <i>Journal of Neurology</i> , 2008, 255, 1059-1066.   | 3.6 | 27        |
| 68 | Reply: Role of DAT SPECT in the diagnostic workup of Parkinsonism. <i>Movement Disorders</i> , 2008, 23, 774-775.  | 3.9 | 1         |
| 69 | Red flags for multiple system atrophy. <i>Movement Disorders</i> , 2008, 23, 1093-1099.  | 3.9 | 215       |
| 70 | Role of DAT SPECT in the diagnostic work up of Parkinsonism. <i>Movement Disorders</i> , 2007, 22, 1229-1238.  | 3.9 | 206       |
| 71 | Diffusion weighted imaging best discriminates PD from MSA: A comparison with tilt table testing and heart MIBG scintigraphy. <i>Movement Disorders</i> , 2007, 22, 1771-1776.  | 3.9 | 92        |
| 72 | Encephalitis lethargica following Bartonella henselae infection. <i>Journal of Neurology</i> , 2007, 254, 546-547.   | 3.6 | 8         |

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|----|--|-----|-----------|
| 73 | Progression of brain atrophy in multiple system atrophy. <i>Journal of Neurology</i> , 2007, 254, 191-196.   | 3.6 | 108       |
| 74 | Progression of putaminal degeneration in multiple system atrophy: A serial diffusion MR study. <i>NeuroImage</i> , 2006, 31, 240-245.  | 4.2 | 98        |
| 75 | Topography of Dopamine Transporter Availability in Progressive Supranuclear Palsy. <i>Archives of Neurology</i> , 2006, 63, 1154.  | 4.5 | 59        |
| 76 | Topography of cerebral monoamine transporter availability in families with SCA2 mutations: a voxel-wise [ <sup>123I</sup> ]β <sup>2</sup> -CIT SPECT analysis. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2006, 33, 1084-1090.      | 6.4 | 2         |
| 77 | Cortical atrophy in the cerebellar variant of multiple system atrophy: A voxel-based morphometry study. <i>Movement Disorders</i> , 2006, 21, 159-165.   | 3.9 | 67        |
| 78 | Progression of multiple system atrophy (MSA): A prospective natural history study by the European MSA Study Group (EMSA SG). <i>Movement Disorders</i> , 2006, 21, 179-186.  | 3.9 | 126       |
| 79 | Nigral degeneration and striatal dopaminergic dysfunction in idiopathic and parkin-linked Parkinson's disease. <i>Movement Disorders</i> , 2006, 21, 299-305.  | 3.9 | 18        |
| 80 | Health-related quality of life in multiple system atrophy. <i>Movement Disorders</i> , 2006, 21, 809-815.  | 3.9 | 102       |
| 81 | Upregulation of dopamine D <sub>2</sub> receptors in dopaminergic drug-naive patients with parkin gene mutations. <i>Movement Disorders</i> , 2006, 21, 783-788.   | 3.9 | 34        |
| 82 | Topography of putaminal degeneration in multiple system atrophy: A diffusion magnetic resonance study. <i>Movement Disorders</i> , 2006, 21, 847-852.  | 3.9 | 62        |
| 83 | Voxel-wise analysis of diffusion weighted imaging reveals disruption of the olfactory tract in Parkinson's disease. <i>Brain</i> , 2006, 129, 538-542.   | 7.6 | 120       |
| 84 | Small animal imaging using a conventional gamma camera exemplified in studies on the striatal dopaminergic system. <i>Nuclear Medicine Review</i> , 2006, 9, 6-11.   | 0.5 | 1         |
| 85 | Parkinsonism and nigrostriatal dysfunction are associated with spinocerebellar ataxia type 6 (SCA6). <i>Movement Disorders</i> , 2005, 20, 1115-1119.  | 3.9 | 45        |
| 86 | Effects of riluzole on combined MPTP+3-nitropropionic acid-induced mild to moderate striatonigral degeneration in mice. <i>Journal of Neural Transmission</i> , 2005, 112, 613-631.  | 2.8 | 27        |
| 87 | Riluzole improves motor deficits and attenuates loss of striatal neurons in a sequential double lesion rat model of striatonigral degeneration (parkinson variant of multiple system atrophy). <i>Journal of Neural Transmission</i> , 2005, 112, 1025-1033. | 2.8 | 34        |
| 88 | Dopaminergic dysfunction in unrelated, asymptomatic carriers of a single parkin mutation. <i>Neurology</i> , 2005, 64, 134-136.  | 1.1 | 132       |
| 89 | Voxel-wise analysis of [ <sup>123I</sup> ]β <sup>2</sup> -CIT SPECT differentiates the Parkinson variant of multiple system atrophy from idiopathic Parkinson's disease. <i>Brain</i> , 2005, 128, 1605-1612.  | 7.6 | 115       |
| 90 | Evaluation of [ <sup>123I</sup> ]IBZM pinhole SPECT for the detection of striatal dopamine D2 receptor availability in rats. <i>NeuroImage</i> , 2005, 24, 822-831.  | 4.2 | 24        |

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|-----|---|-----|-----------|
| 91  | Striatal and cortical pre- and postsynaptic dopaminergic dysfunction in sporadic parkin-linked parkinsonism. <i>Brain</i> , 2004, 127, 1332-1342.   | 7.6 | 104       |
| 92  | The Human Premotor Cortex Is 'Mirror' Only for Biological Actions. <i>Current Biology</i> , 2004, 14, 117-120.  | 3.9 | 285       |
| 93  | Comparison of diffusion-weighted imaging and [ <sup>123</sup> I]IBZM-SPECT for the differentiation of patients with the Parkinson variant of multiple system atrophy from those with Parkinson's disease. <i>Movement Disorders</i> , 2004, 19, 1438-1445.  | 3.9 | 86        |
| 94  | Role of dopamine transporter imaging in investigation of parkinsonian syndromes in routine clinical practice. <i>Movement Disorders</i> , 2003, 18, S16-S21.  | 3.9 | 49        |
| 95  | Evaluation of Striatal Dopamine Transporter Function in Rats by in Vivo <sup>123</sup> I-[123I]CIT Pinhole SPECT. <i>NeuroImage</i> , 2002, 17, 128-141.  | 4.2 | 49        |
| 96  | Simultaneous Intrastratial 6-Hydroxydopamine and Quinolinic Acid Injection: A Model of Early-Stage Striatonigral Degeneration. <i>Experimental Neurology</i> , 2001, 167, 133-147.  | 4.1 | 51        |
| 97  | No functional effects of embryonic neuronal grafts on motor deficits in a 3-nitropropionic acid rat model of advanced striatonigral degeneration (multiple system atrophy). <i>Neuroscience</i> , 2001, 102, 581-592.   | 2.3 | 34        |
| 98  | Towards Neurotransplantation in Multiple System Atrophy: Clinical Rationale, Pathophysiological Basis, and Preliminary Experimental Evidence. <i>Cell Transplantation</i> , 2000, 9, 279-288.   | 2.5 | 37        |
| 99  | Impaired dopaminergic neurotransmission in patients with traumatic brain injury: a SPET study using 123I- <sup>123</sup> I-CIT and 123I-IBZM. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2000, 27, 1410-1414.  | 2.1 | 125       |
| 100 | Failure of Neuroprotection by Embryonic Striatal Grafts in a Double Lesion Rat Model of Striatonigral Degeneration (Multiple System Atrophy). <i>Experimental Neurology</i> , 2000, 164, 166-175.   | 4.1 | 16        |
| 101 | Complex motor disturbances in a sequential double lesion rat model of striatonigral degeneration (multiple system atrophy). <i>Neuroscience</i> , 2000, 99, 43-54.  | 2.3 | 55        |
| 102 | In Vivo Magnetic Resonance Imaging of Embryonic Neural Grafts in a Rat Model of Striatonigral Degeneration (Multiple System Atrophy). <i>NeuroImage</i> , 2000, 12, 209-218.  | 4.2 | 12        |
| 103 | Autoradiographic study of striatal dopamine re-uptake sites and dopamine D1 and D2 receptors in a 6-hydroxydopamine and quinolinic acid double-lesion rat model of striatonigral degeneration (multiple system atrophy) and effects of embryonic ventral mesencephalic, striatal or co-grafts. <i>Neuroscience</i> , 1999, 95, 377-388. | 2.3 | 32        |
| 104 | Neural transplantation in animal models of multiple system atrophy: a review. , 1999, 55, 103-113.  |     | 10        |