

# Hans-Peter MÃ¼ller

## List of Publications by Year in descending order

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96  
papers

2,888  
citations

218381

26  
h-index

214527

47  
g-index

96  
all docs

96  
docs citations

96  
times ranked

3860  
citing authors

#	ARTICLE	IF	CITATIONS
1	Neurofilaments in the diagnosis of motoneuron diseases: a prospective study on 455 patients. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016, 87, jnnp-2015-311387.	0.9	207
2	Diffusion tensor imaging analysis of sequential spreading of disease in amyotrophic lateral sclerosis confirms patterns of TDP-43 pathology. <i>Brain</i> , 2014, 137, 1733-1740.	3.7	179
3	Neurofilament light chain in serum for the diagnosis of amyotrophic lateral sclerosis. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2019, 90, 157-164.	0.9	174
4	A large-scale multicentre cerebral diffusion tensor imaging study in amyotrophic lateral sclerosis. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016, 87, 570-579.	0.9	138
5	To rise and to fall: functional connectivity in cognitively normal and cognitively impaired patients with Parkinson's disease. <i>Neurobiology of Aging</i> , 2015, 36, 1727-1735.	1.5	119
6	Hypothalamic atrophy is related to body mass index and age at onset in amyotrophic lateral sclerosis. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2017, 88, 1033-1041.	0.9	113
7	Whole brain-based analysis of regional white matter tract alterations in rare motor neuron diseases by diffusion tensor imaging. <i>Human Brain Mapping</i> , 2010, 31, 1727-1740.	1.9	102
8	Functional Connectivity Mapping in the Animal Model: Principles and Applications of Resting-State fMRI. <i>Frontiers in Neurology</i> , 2017, 8, 200.	1.1	78
9	Imaging the pathoanatomy of amyotrophic lateral sclerosis in vivo: targeting a propagation-based biological marker. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2018, 89, 374-381.	0.9	74
10	Functional connectivity changes resemble patterns of pTDP-43 pathology in amyotrophic lateral sclerosis. <i>Scientific Reports</i> , 2016, 6, 38391.	1.6	63
11	Quantification of human body fat tissue percentage by MRI. <i>NMR in Biomedicine</i> , 2011, 24, 17-24.	1.6	58
12	Neuroanatomical patterns of cerebral white matter involvement in different motor neuron diseases as studied by diffusion tensor imaging analysis. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders</i> , 2012, 13, 254-264.	2.3	50
13	Cognitive phenotypes of sequential staging in amyotrophic lateral sclerosis. <i>Cortex</i> , 2018, 101, 163-171.	1.1	46
14	A prospective harmonized multicenter DTI study of cerebral white matter degeneration in ALS. <i>Neurology</i> , 2020, 95, e943-e952.	1.5	45
15	Eye Movement Deficits Are Consistent with a Staging Model of pTDP-43 Pathology in Amyotrophic Lateral Sclerosis. <i>PLoS ONE</i> , 2015, 10, e0142546.	1.1	44
16	Deficits in verbal fluency in presymptomatic <i>C9orf72</i> mutation gene carriers—a developmental disorder. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2020, 91, 1195-1200.	0.9	42
17	Intersubject variability in the analysis of diffusion tensor images at the group level: fractional anisotropy mapping and fiber tracking techniques. <i>Magnetic Resonance Imaging</i> , 2009, 27, 324-334.	1.0	41
18	Diffusion Tensor Magnetic Resonance Imaging in the Analysis of Neurodegenerative Diseases. <i>Journal of Visualized Experiments</i> , 2013, , .	0.2	41

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19	The association between alterations of eye movement control and cerebral intrinsic functional connectivity in Parkinson's disease. <i>Brain Imaging and Behavior</i> , 2016, 10, 79-91.	1.1	36
20	Fast progressive lower motor neuron disease is an ALS variant: A two-centre tract of interest-based MRI data analysis. <i>NeuroImage: Clinical</i> , 2018, 17, 145-152.	1.4	35
21	Association of Vitamin E Levels with Metabolic Syndrome, and MRI-Derived Body Fat Volumes and Liver Fat Content. <i>Nutrients</i> , 2017, 9, 1143.	1.7	33
22	MRI-determined total volumes of visceral and subcutaneous abdominal and trunk adipose tissue are differentially and sex-dependently associated with patterns of estimated usual nutrient intake in a northern German population. <i>American Journal of Clinical Nutrition</i> , 2015, 101, 794-807.	2.2	31
23	Patterns of increased intrinsic functional connectivity in patients with restless legs syndrome are associated with attentional control of sensory inputs. <i>Neuroscience Letters</i> , 2016, 617, 264-269.	1.0	31
24	Corticoefficient pathways in pure lower motor neuron disease: a diffusion tensor imaging study. <i>Journal of Neurology</i> , 2016, 263, 2430-2437.	1.8	30
25	Motor network structure and function are associated with motor performance in Huntington's disease. <i>Journal of Neurology</i> , 2016, 263, 539-549.	1.8	30
26	Neuroimaging of motor neuron diseases. <i>Therapeutic Advances in Neurological Disorders</i> , 2012, 5, 119-127.	1.5	29
27	The metabolic and endocrine characteristics in spinal and bulbar muscular atrophy. <i>Journal of Neurology</i> , 2018, 265, 1026-1036.	1.8	29
28	Evaluating multicenter DTI data in Huntington's disease on site specific effects: An ex post facto approach. <i>NeuroImage: Clinical</i> , 2013, 2, 161-167.	1.4	28
29	Longitudinal brain atrophy distribution in advanced Parkinson's disease: What makes the difference in cognitive status converters?. <i>Human Brain Mapping</i> , 2020, 41, 1416-1434.	1.9	28
30	Cytoplasmic FUS triggers early behavioral alterations linked to cortical neuronal hyperactivity and inhibitory synaptic defects. <i>Nature Communications</i> , 2021, 12, 3028.	5.8	28
31	Age-Related Alterations in DTI Metrics in the Human Brain—Consequences for Age Correction. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 682109.	1.7	28
32	Ex post facto assessment of diffusion tensor imaging metrics from different MRI protocols: Preparing for multicentre studies in ALS. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2015, 16, 92-101.	1.1	27
33	Shank3 Transgenic and Prenatal Zinc-Deficient Autism Mouse Models Show Convergent and Individual Alterations of Brain Structures in MRI. <i>Frontiers in Neural Circuits</i> , 2019, 13, 6.	1.4	27
34	Longitudinal Diffusion Tensor Imaging-Based Assessment of Tract Alterations: An Application to Amyotrophic Lateral Sclerosis. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 567.	1.0	26
35	Identical patterns of cortico-efferent tract involvement in primary lateral sclerosis and amyotrophic lateral sclerosis: A tract of interest-based MRI study. <i>NeuroImage: Clinical</i> , 2018, 18, 762-769.	1.4	25
36	Intrinsic functional connectivity alterations in progressive supranuclear palsy: Differential effects in frontal cortex, motor, and midbrain networks. <i>Movement Disorders</i> , 2017, 32, 1006-1015.	2.2	24

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37	Adherence to a plant-based diet in relation to adipose tissue volumes and liver fat content. <i>American Journal of Clinical Nutrition</i> , 2020, 112, 354-363.	2.2	24
38	Hyperconnective and hypoconnective cortical and subcortical functional networks in multiple system atrophy. <i>Parkinsonism and Related Disorders</i> , 2018, 49, 75-80.	1.1	23
39	Corticoefferent pathology distribution in amyotrophic lateral sclerosis: in vivo evidence from a meta-analysis of diffusion tensor imaging data. <i>Scientific Reports</i> , 2018, 8, 15389.	1.6	23
40	Advanced neuroimaging approaches in amyotrophic lateral sclerosis: refining the clinical diagnosis. <i>Expert Review of Neurotherapeutics</i> , 2020, 20, 237-249.	1.4	22
41	The neuropsychology of first impressions: Evidence from Huntington's disease. <i>Cortex</i> , 2016, 85, 100-115.	1.1	21
42	The role of the gut microbiome in the association between habitual anthocyanin intake and visceral abdominal fat in population-level analysis. <i>American Journal of Clinical Nutrition</i> , 2020, 111, 340-350.	2.2	21
43	Computer-based magnetic resonance imaging as a tool in clinical diagnosis in neurodegenerative diseases. <i>Expert Review of Neurotherapeutics</i> , 2016, 16, 295-306.	1.4	20
44	Differential functional connectivity in thalamic and dopaminergic pathways in restless legs syndrome: a meta-analysis. <i>Therapeutic Advances in Neurological Disorders</i> , 2020, 13, 175628642094167.	1.5	20
45	In vivo histopathological staging in C9orf72-associated ALS: A tract of interest DTI study. <i>NeuroImage: Clinical</i> , 2020, 27, 102298.	1.4	20
46	Diffusion Tensor Magnetic Resonance Imaging of the Brain in APP Transgenic Mice: A Cohort Study. <i>PLoS ONE</i> , 2013, 8, e67630.	1.1	19
47	Circulating selenoprotein P levels in relation to MRI-derived body fat volumes, liver fat content, and metabolic disorders. <i>Obesity</i> , 2017, 25, 1128-1135.	1.5	19
48	Stability of white matter changes related to Huntington's disease in the presence of imaging noise: a DTI study. <i>PLOS Currents</i> , 2011, 3, RRN1232.	1.4	19
49	Stability effects on results of diffusion tensor imaging analysis by reduction of the number of gradient directions due to motion artifacts: an application to presymptomatic Huntington's disease. <i>PLOS Currents</i> , 2011, 3, RRN1292.	1.4	19
50	Adipose Tissue Distribution in Patients with Alzheimer's Disease: A Whole Body MRI Case-Control Study. <i>Journal of Alzheimer's Disease</i> , 2015, 48, 825-832.	1.2	18
51	Body fat distribution in Parkinson's disease: An MRI-based body fat quantification study. <i>Parkinsonism and Related Disorders</i> , 2016, 33, 84-89.	1.1	18
52	Intrinsic Functional Connectivity Networks in Healthy Elderly Subjects: A Multiparametric Approach with Structural Connectivity Analysis. <i>BioMed Research International</i> , 2014, 2014, 1-14.	0.9	17
53	Structural brain signature of cognitive decline in Parkinson's disease: DTI-based evidence from the LANDSCAPE study. <i>Therapeutic Advances in Neurological Disorders</i> , 2019, 12, 175628641984344.	1.5	17
54	Histological correlates of postmortem ultra-high-resolution single-section MRI in cortical cerebral microinfarcts. <i>Acta Neuropathologica Communications</i> , 2020, 8, 33.	2.4	16

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55	Two-Point Magnitude MRI for Rapid Mapping of Brown Adipose Tissue and Its Application to the R6/2 Mouse Model of Huntington Disease. <i>PLoS ONE</i> , 2014, 9, e105556.	1.1	15
56	Cerebral Microstructural Alterations after Radiation Therapy in High-Grade Glioma: A Diffusion Tensor Imaging-Based Study. <i>Frontiers in Neurology</i> , 2017, 8, 286.	1.1	15
57	Cortico-efferent tract involvement in primary lateral sclerosis and amyotrophic lateral sclerosis: A two-centre tract of interest-based DTI analysis. <i>NeuroImage: Clinical</i> , 2018, 20, 1062-1069.	1.4	15
58	10Kin1day: A Bottom-Up Neuroimaging Initiative. <i>Frontiers in Neurology</i> , 2019, 10, 425.	1.1	15
59	Severe white matter damage in SHANK3 deficiency: a human and translational study. <i>Annals of Clinical and Translational Neurology</i> , 2020, 7, 46-58.	1.7	15
60	Disruption of orbitofrontal-hypothalamic projections in a murine ALS model and in human patients. <i>Translational Neurodegeneration</i> , 2021, 10, 17.	3.6	15
61	Feature selection from magnetic resonance imaging data in ALS: a systematic review. <i>Therapeutic Advances in Chronic Disease</i> , 2021, 12, 204062232110510.	1.1	15
62	Microstructure of the Midbrain and Cervical Spinal Cord in Idiopathic Restless Legs Syndrome: A Diffusion Tensor Imaging Study. <i>Sleep</i> , 2016, 39, 423-428.	0.6	14
63	Regional microstructural damage and patterns of eye movement impairment: a DTI and video-oculography study in neurodegenerative parkinsonian syndromes. <i>Journal of Neurology</i> , 2017, 264, 1919-1928.	1.8	13
64	MRI-Based Mapping of Cerebral Propagation in Amyotrophic Lateral Sclerosis. <i>Frontiers in Neuroscience</i> , 2018, 12, 655.	1.4	13
65	Longitudinal Diffusion Tensor Imaging Resembles Patterns of Pathology Progression in Behavioral Variant Frontotemporal Dementia (bvFTD). <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 47.	1.7	13
66	Longitudinal diffusion tensor magnetic resonance imaging analysis at the cohort level reveals disturbed cortical and callosal microstructure with spared corticospinal tract in the TDP-43G298S ALS mouse model. <i>Translational Neurodegeneration</i> , 2019, 8, 27.	3.6	13
67	Focal alterations of the callosal area III in primary lateral sclerosis: An MRI planimetry and texture analysis. <i>NeuroImage: Clinical</i> , 2020, 26, 102223.	1.4	13
68	Segmental involvement of the corpus callosum in C9orf72-associated ALS: a tract of interest-based DTI study. <i>Therapeutic Advances in Chronic Disease</i> , 2021, 12, 204062232110029.	1.1	13
69	Combined cerebral atrophy score in Huntington's disease based on atlas-based MRI volumetry: Sample size calculations for clinical trials. <i>Parkinsonism and Related Disorders</i> , 2019, 63, 179-184.	1.1	12
70	Fast Diffusion Tensor Magnetic Resonance Imaging of the Mouse Brain at Ultrahigh-Field: Aiming at Cohort Studies. <i>PLoS ONE</i> , 2012, 7, e53389.	1.1	12
71	Impact of the control for corrupted diffusion tensor imaging data in comparisons at the group level: an application in Huntington disease. <i>BioMedical Engineering OnLine</i> , 2014, 13, 128.	1.3	11
72	Intact sensory-motor network structure and function in far from onset premanifest Huntington's disease. <i>Scientific Reports</i> , 2017, 7, 43841.	1.6	11

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73	Dietary pattern associated with selenoprotein P and MRI-derived body fat volumes, liver signal intensity, and metabolic disorders. <i>European Journal of Nutrition</i> , 2019, 58, 1067-1079.	1.8	11
74	Multiparametric Microstructural MRI and Machine Learning Classification Yields High Diagnostic Accuracy in Amyotrophic Lateral Sclerosis: Proof of Concept. <i>Frontiers in Neurology</i> , 2021, 12, 745475.	1.1	11
75	Complementary Image Analysis of Diffusion Tensor Imaging and 3-Dimensional T1-Weighted Imaging: White Matter Analysis in Amyotrophic Lateral Sclerosis. , 2011, 21, 24-33.		10
76	Association of food consumption with total volumes of visceral and subcutaneous abdominal adipose tissue in a Northern German population. <i>British Journal of Nutrition</i> , 2015, 114, 1929-1940.	1.2	10
77	Clinical and neuroimaging disparity between Chinese and German patients with cerebral small vessel disease: a comparative study. <i>Scientific Reports</i> , 2019, 9, 20015.	1.6	10
78	Structural and Functional Brain Mapping Correlates of Impaired Eye Movement Control in Parkinsonian Syndromes: A Systems-Based Concept. <i>Frontiers in Neurology</i> , 2018, 9, 319.	1.1	9
79	Morphological MRI investigations of the hypothalamus in 232 individuals with Parkinson's disease. <i>Movement Disorders</i> , 2019, 34, 1566-1570.	2.2	9
80	The same cortico-efferent tract involvement in progressive bulbar palsy and in "classical" ALS: A tract of interest-based MRI study. <i>NeuroImage: Clinical</i> , 2019, 24, 101979.	1.4	9
81	Eye movement alterations in presymptomatic C9orf72 expansion gene carriers. <i>Journal of Neurology</i> , 2021, 268, 3390-3399.	1.8	9
82	Clinicoanatomical substrates of selfish behaviour in amyotrophic lateral sclerosis "An observational cohort study. <i>Cortex</i> , 2022, 146, 261-270.	1.1	8
83	Segmental alterations of the corpus callosum in motor neuron disease: A DTI and texture analysis in 575 patients. <i>NeuroImage: Clinical</i> , 2022, 35, 103061.	1.4	8
84	Diffusion Tensor Imaging-Based Studies at the Group-Level Applied to Animal Models of Neurodegenerative Diseases. <i>Frontiers in Neuroscience</i> , 2020, 14, 734.	1.4	7
85	Associations of a Panel of Adipokines with Fat Deposits and Metabolic Phenotypes in a General Population. <i>Obesity</i> , 2020, 28, 1550-1559.	1.5	6
86	Association of Habitual Patterns and Types of Physical Activity and Inactivity with MRI-Determined Total Volumes of Visceral and Subcutaneous Abdominal Adipose Tissue in a General White Population. <i>PLoS ONE</i> , 2015, 10, e0143925.	1.1	5
87	The ipsilateral silent period: an early diagnostic marker of callosal disconnection in ALS. <i>Therapeutic Advances in Chronic Disease</i> , 2021, 12, 204062232110440.	1.1	5
88	Involvement of cortico-efferent tracts in flail arm syndrome: a tract-of-interest-based DTI study. <i>Journal of Neurology</i> , 2022, 269, 2619-2626.	1.8	5
89	Relaxation-weighted <sup>23</sup> Na magnetic resonance imaging maps regional patterns of abnormal sodium concentrations in amyotrophic lateral sclerosis. <i>Therapeutic Advances in Chronic Disease</i> , 2022, 13, 204062232211094.	1.1	4
90	MRI allows for longitudinal quantitative analysis of body fat composition in rats: An analysis of sibutramine-associated changes at the group level. <i>Magnetic Resonance Imaging</i> , 2013, 31, 1150-1155.	1.0	3

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91	How to Arrange Follow-Up Time-Intervals for Longitudinal Brain MRI Studies in Neurodegenerative Diseases. <i>Frontiers in Neuroscience</i> , 2021, 15, 682812.	1.4	3
92	Links between ectopic and abdominal fat and systemic inflammation: New insights from the SHIP-Trend study. <i>Digestive and Liver Disease</i> , 2022, 54, 1030-1037.	0.4	3
93	Segmental Alterations of the Corpus Callosum in Progressive Supranuclear Palsy: A Multiparametric Magnetic Resonance Imaging Study. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 720634.	1.7	2
94	Editorial: Computerized Magnetic Resonance Imaging-Based Neuroimaging of Neurodegenerative Diseases. <i>Frontiers in Neurology</i> , 2019, 10, 237.	1.1	1
95	Advanced magnetic resonance imaging to support clinical drug development for malignant glioma. <i>Drug Discovery Today</i> , 2021, 26, 429-441.	3.2	1
96	Body fat compartment determination by encoder-decoder convolutional neural network: application to amyotrophic lateral sclerosis. <i>Scientific Reports</i> , 2022, 12, 5513.	1.6	1