

Kerstin Pannek

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

72
papers

1,342
citations

22
h-index

33
g-index

73
ext. papers

1,616
ext. citations

4.4
avg, IF

4.4
L-index

#	Paper	IF	Citations
72	MRI structural connectivity, disruption of primary sensorimotor pathways, and hand function in cerebral palsy. <i>Brain Connectivity</i> , 2011 , 1, 309-16	2.7	77
71	Traumatic brain injury, major depression, and diffusion tensor imaging: making connections. <i>Brain Research Reviews</i> , 2010 , 64, 213-40		75
70	Comparative mouse brain tractography of diffusion magnetic resonance imaging. <i>NeuroImage</i> , 2010 , 51, 1027-36	7.9	59
69	Direct evidence of intra- and interhemispheric corticomotor network degeneration in amyotrophic lateral sclerosis: an automated MRI structural connectivity study. <i>NeuroImage</i> , 2012 , 59, 2661-9	7.9	55
68	The average pathlength map: a diffusion MRI tractography-derived index for studying brain pathology. <i>NeuroImage</i> , 2011 , 55, 133-41	7.9	52
67	Assessment of the structural brain network reveals altered connectivity in children with unilateral cerebral palsy due to periventricular white matter lesions. <i>NeuroImage: Clinical</i> , 2014 , 5, 84-92	5.3	49
66	Distinguishing recurrent primary brain tumor from radiation injury: a preliminary study using a susceptibility-weighted MR imaging-guided apparent diffusion coefficient analysis strategy. <i>American Journal of Neuroradiology</i> , 2010 , 31, 1049-54	4.4	44
65	Radiological imaging in ataxia telangiectasia: a review. <i>Cerebellum</i> , 2014 , 13, 521-30	4.3	40
64	Diffusion MRI of the neonate brain: acquisition, processing and analysis techniques. <i>Pediatric Radiology</i> , 2012 , 42, 1169-82	2.8	40
63	Statistical machine learning to identify traumatic brain injury (TBI) from structural disconnections of white matter networks. <i>NeuroImage</i> , 2016 , 129, 247-259	7.9	37
62	HOMOR: higher order model outlier rejection for high b-value MR diffusion data. <i>NeuroImage</i> , 2012 , 63, 835-42	7.9	37
61	Magnetic resonance diffusion tractography of the preterm infant brain: a systematic review. <i>Developmental Medicine and Child Neurology</i> , 2014 , 56, 113-24	3.3	35
60	Dynamic corticospinal white matter connectivity changes during stroke recovery: a diffusion tensor probabilistic tractography study. <i>Journal of Magnetic Resonance Imaging</i> , 2009 , 29, 529-36	5.6	35
59	An automated strategy for the delineation and parcellation of commissural pathways suitable for clinical populations utilising high angular resolution diffusion imaging tractography. <i>NeuroImage</i> , 2010 , 50, 1044-53	7.9	34
58	Network over-connectivity differentiates autism spectrum disorder from other developmental disorders in toddlers: A diffusion MRI study. <i>Human Brain Mapping</i> , 2017 , 38, 2333-2344	5.9	32
57	Validity of semi-quantitative scale for brain MRI in unilateral cerebral palsy due to periventricular white matter lesions: Relationship with hand sensorimotor function and structural connectivity. <i>NeuroImage: Clinical</i> , 2015 , 8, 104-9	5.3	30
56	Changes in the integrity of thalamocortical connections are associated with sensorimotor deficits in children with congenital hemiplegia. <i>Brain Structure and Function</i> , 2015 , 220, 307-18	4	30

55	REACH: study protocol of a randomised trial of rehabilitation very early in congenital hemiplegia. <i>BMJ Open</i> , 2017 , 7, e017204	3	27
54	Fixel-based analysis reveals alterations in brain microstructure and macrostructure of preterm-born infants at term equivalent age. <i>NeuroImage: Clinical</i> , 2018 , 18, 51-59	5.3	27
53	Reduced integrity of sensorimotor projections traversing the posterior limb of the internal capsule in children with congenital hemiparesis. <i>Research in Developmental Disabilities</i> , 2014 , 35, 250-60	2.7	25
52	Assessment of structural connectivity in the preterm brain at term equivalent age using diffusion MRI and T2 relaxometry: a network-based analysis. <i>PLoS ONE</i> , 2013 , 8, e68593	3.7	25
51	Structural hemispheric asymmetries in the human precentral gyrus hand representation. <i>Neuroscience</i> , 2012 , 210, 211-21	3.9	23
50	The (Eigen)value of diffusion tensor imaging to investigate depression after traumatic brain injury. <i>Human Brain Mapping</i> , 2014 , 35, 227-37	5.9	22
49	Validation of an MRI Brain Injury and Growth Scoring System in Very Preterm Infants Scanned at 29- to 35-Week Postmenstrual Age. <i>American Journal of Neuroradiology</i> , 2017 , 38, 1435-1442	4.4	21
48	Exposing asymmetric gray matter vulnerability in amyotrophic lateral sclerosis. <i>NeuroImage: Clinical</i> , 2015 , 7, 782-7	5.3	21
47	Relationship between very early brain structure and neuromotor, neurological and neurobehavioral function in infants born . <i>Early Human Development</i> , 2018 , 117, 74-82	2.2	21
46	Lateralization of Brain Networks and Clinical Severity in Toddlers with Autism Spectrum Disorder: A HARDI Diffusion MRI Study. <i>Autism Research</i> , 2016 , 9, 382-92	5.1	21
45	Predicting motor outcome in preterm infants from very early brain diffusion MRI using a deep learning convolutional neural network (CNN) model. <i>NeuroImage</i> , 2020 , 215, 116807	7.9	20
44	Structural connectivity of the anterior cingulate in children with unilateral cerebral palsy due to white matter lesions. <i>NeuroImage: Clinical</i> , 2015 , 9, 498-505	5.3	19
43	PPREMO: a prospective cohort study of preterm infant brain structure and function to predict neurodevelopmental outcome. <i>BMC Pediatrics</i> , 2015 , 15, 123	2.6	19
42	Diffusion-weighted magnetic resonance imaging detection of basal forebrain cholinergic degeneration in a mouse model. <i>NeuroImage</i> , 2013 , 66, 133-41	7.9	18
41	Maturation of corpus callosum anterior midbody is associated with neonatal motor function in eight preterm-born infants. <i>Neural Plasticity</i> , 2013 , 2013, 359532	3.3	18
40	Quantitative comparison of cortical and deep grey matter in pathological subtypes of unilateral cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2014 , 56, 968-75	3.3	16
39	A combined tract-based spatial statistics and voxel-based morphometry study of the first MRI scan after diagnosis of amyotrophic lateral sclerosis with subgroup analysis. <i>Journal of Neuroradiology</i> , 2018 , 45, 41-48	3.1	16
38	White matter integrity in dyskinetic cerebral palsy: Relationship with intelligence quotient and executive function. <i>NeuroImage: Clinical</i> , 2017 , 15, 789-800	5.3	15

37	Neuroanatomical correlates of childhood apraxia of speech: A connectomic approach. <i>NeuroImage: Clinical</i> , 2016 , 12, 894-901	5.3	15
36	Volumetrics relate to the development of depression after traumatic brain injury. <i>Behavioural Brain Research</i> , 2014 , 271, 147-53	3.4	15
35	Motor pathway degeneration in young ataxia telangiectasia patients: A diffusion tractography study. <i>NeuroImage: Clinical</i> , 2015 , 9, 206-15	5.3	13
34	Diagnostic accuracy of early magnetic resonance imaging to determine motor outcomes in infants born preterm: a systematic review and meta-analysis. <i>Developmental Medicine and Child Neurology</i> , 2018 , 60, 134-146	3.3	12
33	A fixel-based analysis of micro- and macro-structural changes to white matter following adult traumatic brain injury. <i>Human Brain Mapping</i> , 2020 , 41, 2187-2197	5.9	11
32	MRI diffusion indices sampled along streamline trajectories: quantitative tractography mapping. <i>Brain Connectivity</i> , 2011 , 1, 331-8	2.7	11
31	Corticopontocerebellar Connectivity Disruption in Congenital Hemiplegia. <i>Neurorehabilitation and Neural Repair</i> , 2015 , 29, 858-66	4.7	10
30	How many streamlines are required for reliable probabilistic tractography? Solutions for microstructural measurements and neurosurgical planning. <i>NeuroImage</i> , 2020 , 211, 116646	7.9	10
29	Extent of altered white matter in unilateral and bilateral periventricular white matter lesions in children with unilateral cerebral palsy. <i>Research in Developmental Disabilities</i> , 2016 , 55, 368-76	2.7	10
28	Advanced MRI analysis to detect white matter brain injury in growth restricted newborn lambs. <i>NeuroImage: Clinical</i> , 2019 , 24, 101991	5.3	9
27	Altered corticomotor-cerebellar integrity in young ataxia telangiectasia patients. <i>Movement Disorders</i> , 2014 , 29, 1289-98	7	9
26	PREMM: preterm early massage by the mother: protocol of a randomised controlled trial of massage therapy in very preterm infants. <i>BMC Pediatrics</i> , 2016 , 16, 146	2.6	9
25	Brain lesion scores obtained using a simple semi-quantitative scale from MR imaging are associated with motor function, communication and cognition in dyskinetic cerebral palsy. <i>NeuroImage: Clinical</i> , 2018 , 19, 892-900	5.3	8
24	Biomarkers of disease in a case of familial lower motor neuron ALS. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders</i> , 2010 , 11, 486-9		8
23	Brain microstructure and morphology of very preterm-born infants at term equivalent age: Associations with motor and cognitive outcomes at 1 and 2 years. <i>NeuroImage</i> , 2020 , 221, 117163	7.9	7
22	Protocol for a multisite randomised trial of Hand-Arm Bimanual Intensive Training Including Lower Extremity training for children with bilateral cerebral palsy: HABIT-ILE Australia. <i>BMJ Open</i> , 2019 , 9, e032194	3	6
21	Diffusion Tractography Biomarkers of Pediatric Cerebellar Hypoplasia/Atrophy: Preliminary Results Using Constrained Spherical Deconvolution. <i>American Journal of Neuroradiology</i> , 2016 , 37, 917-23	4.4	5
20	Prediction of childhood brain outcomes in infants born preterm using neonatal MRI and concurrent clinical biomarkers (PREBO-6): study protocol for a prospective cohort study. <i>BMJ Open</i> , 2020 , 10, e036480	3	4

19	Discovering the sense of touch: protocol for a randomised controlled trial examining the efficacy of a somatosensory discrimination intervention for children with hemiplegic cerebral palsy. <i>BMC Pediatrics</i> , 2018 , 18, 252	2.6	4
18	Is one motor cortex enough for two hands?. <i>Developmental Medicine and Child Neurology</i> , 2015 , 57, 977-80	3.5	4
17	Understanding the impact of bilateral brain injury in children with unilateral cerebral palsy. <i>Human Brain Mapping</i> , 2020 , 41, 2794-2807	5.9	3
16	Assessment of inhibitory potency of antibiotics by MRI: apparent T2 as a marker of cell growth. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2006 , 19, 247-55	2.8	3
15	Chronic white matter changes detected using diffusion tensor imaging following adult traumatic brain injury and their relationship to cognition. <i>Neuropsychology</i> , 2020 , 34, 881-893	3.8	3
14	High angular resolution diffusion imaging in a child with autism spectrum disorder and comparison with his unaffected identical twin. <i>Functional Neurology</i> , 2015 , 30, 203-8	2.2	3
13	Study protocol of a randomized controlled trial of home-based computerized executive function training for children with cerebral palsy. <i>BMC Pediatrics</i> , 2020 , 20, 9	2.6	3
12	Early clinical and MRI biomarkers of cognitive and motor outcomes in very preterm born infants. <i>Pediatric Research</i> , 2021 ,	3.2	3
11	Tract integrity in amyotrophic lateral sclerosis: 6-month evaluation using MR diffusion tensor imaging. <i>BMC Medical Imaging</i> , 2019 , 19, 19	2.9	2
10	A spatio-temporal atlas of neonatal diffusion MRI based on kernel ridge regression 2017 ,		2
9	Distance informed Track-Weighted Imaging (diTWI): a framework for sensitising streamline information to neuropathology. <i>NeuroImage</i> , 2014 , 86, 60-6	7.9	2
8	Contrast agent derived determination of the total circulating blood volume using magnetic resonance. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2012 , 25, 215-22	2.8	2
7	Investigating Brain Age Deviation in Preterm Infants: A Deep Learning Approach. <i>Lecture Notes in Computer Science</i> , 2018 , 87-96	0.9	1
6	Serial MRI studies over 12 months using manual and atlas-based region of interest in patients with amyotrophic lateral sclerosis. <i>BMC Medical Imaging</i> , 2020 , 20, 90	2.9	0
5	Neural Changes Induced by a Speech Motor Treatment in Childhood Apraxia of Speech: A Case Series. <i>Journal of Child Neurology</i> , 2021 , 36, 958-967	2.5	0
4	Cognitive, academic, executive and psychological functioning in children with spastic motor type cerebral palsy: Influence of extent, location, and laterality of brain lesions.. <i>European Journal of Paediatric Neurology</i> , 2022 , 38, 33-46	3.8	0
3	. <i>American Journal of Neuroradiology</i> , 2018 , 39, E40-E41	4.4	
2	IC-P-091: TAU, A β AMYLOID, BRAIN STRUCTURE AND COGNITIVE FUNCTION FOLLOWING SERVICE-RELATED TRAUMATIC BRAIN INJURY IN AUSTRALIAN VIETNAM WAR VETERANS 2018 , 14, P76-P76		

- 1 Automating Quantitative Measures of an Established Conventional MRI Scoring System for Preterm-Born Infants Scanned between 29 and 47 WeeksTPostmenstrual Age. *American Journal of Neuroradiology*, **2021**, 42, 1870-1877 4.4