

Kerstin Pannek

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

1,920
citations

218381

26
h-index

315357

38
g-index

73
all docs

73
docs citations

73
times ranked

2959
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiological Imaging in Ataxia Telangiectasia: a Review. <i>Cerebellum</i> , 2014, 13, 521-530.	1.4	174
2	MRI Structural Connectivity, Disruption of Primary Sensorimotor Pathways, and Hand Function in Cerebral Palsy. <i>Brain Connectivity</i> , 2011, 1, 309-316.	0.8	92
3	Traumatic brain injury, major depression, and diffusion tensor imaging: Making connections. <i>Brain Research Reviews</i> , 2010, 64, 213-240.	9.1	84
4	Comparative mouse brain tractography of diffusion magnetic resonance imaging. <i>NeuroImage</i> , 2010, 51, 1027-1036.	2.1	70
5	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.	1.4	65
6	Direct evidence of intra- and interhemispheric corticomotor network degeneration in amyotrophic lateral sclerosis: An automated MRI structural connectivity study. <i>NeuroImage</i> , 2012, 59, 2661-2669.	2.1	61
7	The average pathlength map: A diffusion MRI tractography-derived index for studying brain pathology. <i>NeuroImage</i> , 2011, 55, 133-141.	2.1	59
8	Statistical machine learning to identify traumatic brain injury (TBI) from structural disconnections of white matter networks. <i>NeuroImage</i> , 2016, 129, 247-259.	2.1	56
9	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.	1.4	52
10	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, 1049-1054.	1.2	50
11	Diffusion MRI of the neonate brain: acquisition, processing and analysis techniques. <i>Pediatric Radiology</i> , 2012, 42, 1169-1182.	1.1	48
12	Network overconnectivity differentiates autism spectrum disorder from other developmental disorders in toddlers: A diffusion MRI study. <i>Human Brain Mapping</i> , 2017, 38, 2333-2344.	1.9	48
13	Magnetic resonance diffusion tractography of the preterm infant brain: a systematic review. <i>Developmental Medicine and Child Neurology</i> , 2014, 56, 113-124.	1.1	44
14	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, 104-109.	1.4	44
15	HOMOR: Higher Order Model Outlier Rejection for high b-value MR diffusion data. <i>NeuroImage</i> , 2012, 63, 835-842.	2.1	43
16	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, 307-318.	1.2	41
17	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.	2.1	41
18	Dynamic corticospinal white matter connectivity changes during stroke recovery: A diffusion tensor probabilistic tractography study. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 29, 529-536.	1.9	40

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19	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, 1044-1053.	2.1	40
20	REACH: study protocol of a randomised trial of rehabilitation very early in congenital hemiplegia. <i>BMJ Open</i> , 2017, 7, e017204.	0.8	35
21	Lateralization of Brain Networks and Clinical Severity in Toddlers with Autism Spectrum Disorder: A HARDI Diffusion MRI Study. <i>Autism Research</i> , 2016, 9, 382-392.	2.1	33
22	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.	1.2	32
23	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, 250-260.	1.2	31
24	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.	1.1	29
25	PPREMO: a prospective cohort study of preterm infant brain structure and function to predict neurodevelopmental outcome. <i>BMC Pediatrics</i> , 2015, 15, 123.	0.7	29
26	Structural hemispheric asymmetries in the human precentral gyrus hand representation. <i>Neuroscience</i> , 2012, 210, 211-221.	1.1	28
27	Diffusion-weighted magnetic resonance imaging detection of basal forebrain cholinergic degeneration in a mouse model. <i>NeuroImage</i> , 2013, 66, 133-141.	2.1	28
28	Relationship between very early brain structure and neuromotor, neurological and neurobehavioral function in infants born ≤ 31 weeks gestational age. <i>Early Human Development</i> , 2018, 117, 74-82.	0.8	28
29	The (Eigen)value of diffusion tensor imaging to investigate depression after traumatic brain injury. <i>Human Brain Mapping</i> , 2014, 35, 227-237.	1.9	26
30	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.	1.4	26
31	Quantitative comparison of cortical and deep grey matter in pathological subtypes of unilateral cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2014, 56, 968-975.	1.1	24
32	Exposing asymmetric gray matter vulnerability in amyotrophic lateral sclerosis. <i>NeuroImage: Clinical</i> , 2015, 7, 782-787.	1.4	24
33	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.	0.6	23
34	Motor pathway degeneration in young ataxia telangiectasia patients: A diffusion tractography study. <i>NeuroImage: Clinical</i> , 2015, 9, 206-215.	1.4	22
35	White matter integrity in dyskinetic cerebral palsy: Relationship with intelligence quotient and executive function. <i>NeuroImage: Clinical</i> , 2017, 15, 789-800.	1.4	21
36	Maturation of Corpus Callosum Anterior Midbody Is Associated with Neonatal Motor Function in Eight Preterm-Born Infants. <i>Neural Plasticity</i> , 2013, 2013, 1-7.	1.0	19

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37	Neuroanatomical correlates of childhood apraxia of speech: A connectomic approach. <i>NeuroImage: Clinical</i> , 2016, 12, 894-901.	1.4	18
38	How many streamlines are required for reliable probabilistic tractography? Solutions for microstructural measurements and neurosurgical planning. <i>NeuroImage</i> , 2020, 211, 116646.	2.1	18
39	Volumetrics relate to the development of depression after traumatic brain injury. <i>Behavioural Brain Research</i> , 2014, 271, 147-153.	1.2	17
40	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.	1.1	17
41	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.	2.1	17
42	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.	0.7	16
43	Advanced MRI analysis to detect white matter brain injury in growth restricted newborn lambs. <i>NeuroImage: Clinical</i> , 2019, 24, 101991.	1.4	15
44	A fiber-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.	1.9	15
45	Altered corticocerebellar integrity in young ataxia telangiectasia patients. <i>Movement Disorders</i> , 2014, 29, 1289-1298.	2.2	13
46	Corticopontocerebellar Connectivity Disruption in Congenital Hemiplegia. <i>Neurorehabilitation and Neural Repair</i> , 2015, 29, 858-866.	1.4	13
47	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.	1.4	13
48	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, 368-376.	1.2	12
49	MRI Diffusion Indices Sampled Along Streamline Trajectories: Quantitative Tractography Mapping. <i>Brain Connectivity</i> , 2011, 1, 331-338.	0.8	11
50	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.	0.8	11
51	Biomarkers of disease in a case of familial lower motor neuron ALS. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders</i> , 2010, 11, 486-489.	2.3	10
52	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.	0.8	9
53	Early clinical and MRI biomarkers of cognitive and motor outcomes in very preterm born infants. <i>Pediatric Research</i> , 2021, 90, 1243-1250.	1.1	9
54	Diffusion Tractography Biomarkers of Pediatric Cerebellar Hypoplasia/Atrophy: Preliminary Results Using Constrained Spherical Deconvolution. <i>American Journal of Neuroradiology</i> , 2016, 37, 917-923.	1.2	8

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55	Understanding the impact of bilateral brain injury in children with unilateral cerebral palsy. <i>Human Brain Mapping</i> , 2020, 41, 2794-2807.	1.9	8
56	Tract integrity in amyotrophic lateral sclerosis: 6-month evaluation using MR diffusion tensor imaging. <i>BMC Medical Imaging</i> , 2019, 19, 19.	1.4	7
57	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.	0.7	7
58	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.	0.7	7
59	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.	0.7	6
60	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.	1.0	6
61	Is one motor cortex enough for two hands?. <i>Developmental Medicine and Child Neurology</i> , 2015, 57, 977-980.	1.1	5
62	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.	0.7	5
63	Assessment of inhibitory potency of antibiotics by MRI: apparent T 2 as a marker of cell growth. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2006, 19, 247-255.	1.1	3
64	Distance informed Track-Weighted Imaging (diTWI): A framework for sensitising streamline information to neuropathology. <i>NeuroImage</i> , 2014, 86, 60-66.	2.1	3
65	A spatio-temporal atlas of neonatal diffusion MRI based on kernel ridge regression. , 2017, , .		3
66	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.	1.3	3
67	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, 215-222.	1.1	2
68	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.	1.4	2
69	Reply:. <i>American Journal of Neuroradiology</i> , 2018, 39, E40-E41.	1.2	0
70	ICP-091: TAU, A β AMYLOID, BRAIN STRUCTURE AND COGNITIVE FUNCTION FOLLOWING SERVICE-RELATED TRAUMATIC BRAIN INJURY IN AUSTRALIAN VIETNAM WAR VETERANS. <i>Alzheimer's and Dementia</i> , 2018, 14, P76.	0.4	0
71	Automating Quantitative Measures of an Established Conventional MRI Scoring System for Preterm-Born Infants Scanned between 29 and 47 Weeks TM Postmenstrual Age. <i>American Journal of Neuroradiology</i> , 2021, 42, 1870-1877.	1.2	0