Marko Wilke

List of Publications by Year in descending order

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72 papers	5,343 citations	117625 34 h-index	95266 68 g-index
72 all docs	72 docs citations	72 times ranked	6301 citing authors

#	Article	IF	Citations
1	Correlation of White Matter Diffusivity and Anisotropy with Age during Childhood and Adolescence: A Cross-sectional Diffusion-Tensor MR Imaging Study. Radiology, 2002, 222, 212-218.	7.3	383
2	LI-tool: A new toolbox to assess lateralization in functional MR-data. Journal of Neuroscience Methods, 2007, 163, 128-136.	2.5	383
3	Cognitive functions correlate with white matter architecture in a normal pediatric population: A diffusion tensor MRI study. Human Brain Mapping, 2005, 26, 139-147.	3.6	370
4	Template-O-Matic: A toolbox for creating customized pediatric templates. NeuroImage, 2008, 41, 903-913.	4.2	339
5	Size matters: Increased grey matter in boys with conduct problems and callousâ€“unemotional traits. Brain, 2009, 132, 843-852.	7.6	271
6	Brain maturation: Predicting individual BrainAGE in children and adolescents using structural MRI. NeuroImage, 2012, 63, 1305-1312.	4.2	234
7	Assessment of spatial normalization of whole-brain magnetic resonance images in children. Human Brain Mapping, 2002, 17, 48-60.	3.6	220
8	A combined bootstrap/histogram analysis approach for computing a lateralization index from neuroimaging data. NeuroImage, 2006, 33, 522-530.	4.2	206
9	Bright spots: correlations of gray matter volume with IQ in a normal pediatric population. NeuroImage, 2003, 20, 202-215.	4.2	200
10	Voxel-based morphometry in adolescents with bipolar disorder: first results. Psychiatry Research - Neuroimaging, 2004, 131, 57-69.	1.8	173
11	Strengthening of laterality of verbal and visuospatial functions during childhood and adolescence. Human Brain Mapping, 2009, 30, 473-483.	3.6	149
12	Global and local development of gray and white matter volume in normal children and adolescents. Experimental Brain Research, 2007, 178, 296-307.	1.5	139
13	Infant brain probability templates for MRI segmentation and normalization. NeuroImage, 2008, 43, 721-730.	4.2	133
14	Fast semi-automated lesion demarcation in stroke. NeuroImage: Clinical, 2015, 9, 69-74.	2.7	119
15	An alternative approach towards assessing and accounting for individual motion in fMRI timeseries. NeuroImage, 2012, 59, 2062-2072.	4.2	115
16	Visuospatial deficits in patients with early left-hemispheric lesions and functional reorganization of language: Consequence of lesion or reorganization?. Neuropsychologia, 2006, 44, 1088-1094.	1.6	113
17	Prefrontalâ€“thalamicâ€“cerebellar gray matter networks and executive functioning in schizophrenia. Schizophrenia Research, 2007, 93, 79-89.	2.0	108
18	Manual, semi-automated, and automated delineation of chronic brain lesions: A comparison of methods. NeuroImage, 2011, 56, 2038-2046.	4.2	98

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19	Language comprehension vs. language production: Age effects on fMRI activation. Brain and Language, 2011, 119, 6-15.	1.6	98
20	Two types of exerciseâ€induced neuroplasticity in congenital hemiparesis: a transcranial magnetic stimulation, functional <scp>MRI</scp>, and magnetoencephalography study. Developmental Medicine and Child Neurology, 2013, 55, 941-951.	2.1	92
21	Increases in language lateralization in normal children as observed using magnetoencephalography. Brain and Language, 2008, 106, 167-176.	1.6	85
22	Somatosensory system in two types of motor reorganization in congenital hemiparesis: Topography and function. Human Brain Mapping, 2009, 30, 776-788.	3.6	80
23	BOLD fMRI signal increases with age in selected brain regions in children. NeuroReport, 2004, 15, 2575-2578.	1.2	79
24	Postnatal Human Cytomegalovirus Infection in Preterm Infants Has Long-Term Neuropsychological Sequelae. Journal of Pediatrics, 2015, 166, 834-839.e1.	1.8	77
25	An fMRI task battery for assessing hemispheric language dominance in children. NeuroImage, 2006, 32, 400-410.	4.2	68
26	Brain Representation of Active and Passive Hand Movements in Children. Pediatric Research, 2007, 61, 485-490.	2.3	68
27	A Semi-Automatic Algorithm for Determining the Demyelination Load in Metachromatic Leukodystrophy. Academic Radiology, 2012, 19, 26-34.	2.5	61
28	Motor Cortex Plasticity in Ischemic Perinatal Stroke: A Transcranial Magnetic Stimulation and Functional MRI Study. Pediatric Neurology, 2009, 41, 171-178.	2.1	58
29	CerebroMatic: A Versatile Toolbox for Spline-Based MRI Template Creation. Frontiers in Computational Neuroscience, 2017, 11, 5.	2.1	54
30	Lesion-induced right-hemispheric language and organization of nonverbal functions. NeuroReport, 2006, 17, 929-933.	1.2	49
31	Comprehensive language mapping in children, using functional magnetic resonance imaging: what??s missing counts. NeuroReport, 2005, 16, 915-919.	1.2	47
32	Variability of gray and white matter during normal development: a voxel-based MRI analysis. NeuroReport, 2003, 14, 1887-1890.	1.2	41
33	Neural Mechanisms Underlying Learning Following Semantic Mediation Treatment in a Case of Phonologic Alexia. Brain Imaging and Behavior, 2008, 2, 147-162.	2.1	41
34	Specific impairment of functional connectivity between language regions in former early preterms. Human Brain Mapping, 2014, 35, 3372-3384.	3.6	37
35	Voxel-based morphometry in the detection of dysplasia and neoplasia in childhood epilepsy: Combined grey/white matter analysis augments detection. Epilepsy Research, 2007, 77, 93-101.	1.6	36
36	Longâ€term neurobiological consequences of early postnatal hCMVâ€infection in former preterms. Human Brain Mapping, 2014, 35, 2594-2606.	3.6	33

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37	Relationship between functional connectivity and sensory impairment: Red flag or red herring?. Human Brain Mapping, 2012, 33, 628-638.	3.6	30
38	Ageâ€dependent mesial temporal lobe lateralization in language <scp>fMRI</scp>. Epilepsia, 2016, 57, 122-130.	5.1	30
39	Lesion characteristics driving right-hemispheric language reorganization in congenital left-hemispheric brain damage. Brain and Language, 2017, 173, 1-9.	1.6	30
40	Language processing during natural sleep in a 6-year-old boy, as assessed with functional MR imaging. American Journal of Neuroradiology, 2003, 24, 42-4.	2.4	28
41	Plasticity during Early Brain Development Is Determined by Ontogenetic Potential. Neuropediatrics, 2017, 48, 066-071.	0.6	27
42	Clinical functional MRI of the language domain in children with epilepsy. Human Brain Mapping, 2011, 32, 1882-1893.	3.6	26
43	Lateralization of cognitive functions after stroke in childhood. Brain Injury, 2010, 24, 859-870.	1.2	25
44	Isolated Assessment of Translation or Rotation Severely Underestimates the Effects of Subject Motion in fMRI Data. PLoS ONE, 2014, 9, e106498.	2.5	25
45	Combined functional and causal connectivity analyses of language networks in children: A feasibility study. Brain and Language, 2009, 108, 22-29.	1.6	21
46	Why one task is not enough: Functional MRI for atypical language organization in two children. European Journal of Paediatric Neurology, 2010, 14, 474-478.	1.6	20
47	Assessing language and visuospatial functions with one task: A â€œdual useâ€•approach to performing fMRI in children. NeuroImage, 2011, 58, 923-929.	4.2	20
48	Functional MRI-guided probabilistic tractography of cortico-cortical and cortico-subcortical language networks in children. NeuroImage, 2012, 63, 1561-1570.	4.2	17
49	Role of presurgical functional MRI and diffusion MR tractography in pediatric low-grade brain tumor surgery: a single-center study. Child's Nervous System, 2018, 34, 2241-2248.	1.1	17
50	An Iterative Jackknife Approach for Assessing Reliability and Power of fMRI Group Analyses. PLoS ONE, 2012, 7, e35578.	2.5	16
51	Increased Brain Age Gap Estimate (BrainAGE) in Young Adults After Premature Birth. Frontiers in Aging Neuroscience, 2021, 13, 653365.	3.4	15
52	Clinical application of advanced <scp>MR</scp> methods in children: points to consider. Annals of Clinical and Translational Neurology, 2018, 5, 1434-1455.	3.7	14
53	Complex Visual Search in Children and Adolescents: Effects of Age and Performance on fMRI Activation. PLoS ONE, 2013, 8, e85168.	2.5	14
54	Structural Neuroimaging and the Antisocial Brain. Criminal Justice and Behavior, 2009, 36, 1173-1186.	1.8	13

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55	Using fMRI to Investigate Memory in Young Children Born Small for Gestational Age. PLoS ONE, 2015, 10, e0129721.	2.5	12
56	Comparison of Different Tractography Algorithms and Validation by Intraoperative Stimulation in a Child with a Brain Tumor. Neuropediatrics, 2015, 46, 072-075.	0.6	11
57	A â€œone size fits allâ€•approach to language fMRI: increasing specificity and applicability by adding a self-paced component. Experimental Brain Research, 2016, 234, 673-684.	1.5	11
58	Multidimensional morphometric 3D MRI analyses for detecting brain abnormalities in children: Impact of control population. Human Brain Mapping, 2014, 35, 3199-3215.	3.6	10
59	Structural MR Imaging Studies of the Brain in Children: Issues and Opportunities. Neuroembryology and Aging, 2008, 5, 6-13.	0.1	8
60	Does damage to somatosensory circuits underlie motor impairment in cerebral palsy?. Developmental Medicine and Child Neurology, 2009, 51, 686-687.	2.1	8
61	Identification of Successful Clinical fMRI Sessions in Children: An Objective Approach. Neuropediatrics, 2012, 43, 249-257.	0.6	8
62	A spline-based regression parameter set for creating customized DARTEL MRI brain templates from infancy to old age. Data in Brief, 2018, 16, 959-966.	1.0	8
63	Language lateralization in magnetoencephalography: two tasks to investigate hemispheric dominance. NeuroReport, 2006, 17, 1209-1213.	1.2	7
64	Assessing motor, visual and language function using a single 5-minute fMRI paradigm: three birds with one stone. Brain Imaging and Behavior, 2018, 12, 1775-1785.	2.1	7
65	Non-verbal Intelligence in Unilateral Perinatal Stroke Patients With and Without Epilepsies. Frontiers in Pediatrics, 2021, 9, 660096.	1.9	4
66	Cognitive development after perinatal unilateral infarctions: No evidence for preferential sparing of verbal functions. European Journal of Paediatric Neurology, 2022, 37, 8-11.	1.6	2
67	Multimodal Assessment Reveals Late-Onset Hemispheric Shift of Language in a Child with Meningocerebral Dysplasia. Neuropediatrics, 2016, 47, 341-345.	0.6	1
68	A multidimensional artefact-reduction approach to increase robustness of first-level fMRI analyses: Censoring vs. interpolating. Journal of Neuroscience Methods, 2019, 318, 56-68.	2.5	1
69	How relevant are fluid cognition and general intelligence? A developmental neuroscientist's perspective on a new model. Behavioral and Brain Sciences, 2006, 29, 143-143.	0.7	0
70	The neuronal basis of intelligence: A riddle, wrapped in a mystery?. Behavioral and Brain Sciences, 2007, 30, 172-173.	0.7	0
71	Special Issues in fMRI-Studies Involving Children. , 2010, , 141-147.		0
72	FV 695. Does Early Postnatal hCMV Infection Have Long-Term Consequences on Brain Structure of Former Preterm Born Children?. Neuropediatrics, 2018, 49, .	0.6	0