

# Ralph-Axel MÃ¼ller

## List of Publications by Year in descending order

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122  
papers

8,905  
citations

34105

52  
h-index

46799

89  
g-index

128  
all docs

128  
docs citations

128  
times ranked

7536  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancing studies of the connectome in autism using the autism brain imaging data exchange II. <i>Scientific Data</i> , 2017, 4, 170010.	5.3	422
2	Underconnected, but How? A Survey of Functional Connectivity MRI Studies in Autism Spectrum Disorders. <i>Cerebral Cortex</i> , 2011, 21, 2233-2243.	2.9	373
3	Impaired thalamocortical connectivity in autism spectrum disorder: a study of functional and anatomical connectivity. <i>Brain</i> , 2013, 136, 1942-1955.	7.6	303
4	Atypical attentional networks and the emergence of autism. <i>Neuroscience and Biobehavioral Reviews</i> , 2013, 37, 164-183.	6.1	302
5	Reduced functional connectivity between V1 and inferior frontal cortex associated with visuomotor performance in autism. <i>NeuroImage</i> , 2005, 25, 916-925.	4.2	264
6	Local Functional Overconnectivity in Posterior Brain Regions Is Associated with Symptom Severity in Autism Spectrum Disorders. <i>Cell Reports</i> , 2013, 5, 567-572.	6.4	237
7	Atypical functional lateralization of language in autism spectrum disorders. <i>Brain Research</i> , 2008, 1221, 115-125.	2.2	219
8	Cerebellar function in autism: Functional magnetic resonance image activation during a simple motor task. <i>Biological Psychiatry</i> , 2004, 56, 269-278.	1.3	209
9	Tract-specific analyses of diffusion tensor imaging show widespread white matter compromise in autism spectrum disorder. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2011, 52, 286-295.	5.2	201
10	Partially enhanced thalamocortical functional connectivity in autism. <i>Brain Research</i> , 2006, 1104, 160-174.	2.2	183
11	Atypical patterns of cerebral motor activation in autism: a functional magnetic resonance study. <i>Biological Psychiatry</i> , 2001, 49, 665-676.	1.3	175
12	The study of autism as a distributed disorder. <i>Mental Retardation and Developmental Disabilities Research Reviews</i> , 2007, 13, 85-95.	3.6	170
13	Aberrant functional connectivity in autism: Evidence from low-frequency BOLD signal fluctuations. <i>Brain Research</i> , 2009, 1262, 48-63.	2.2	169
14	Atypically diffuse functional connectivity between caudate nuclei and cerebral cortex in autism. <i>Behavioral and Brain Functions</i> , 2006, 2, 34.	3.3	168
15	Cerebro-cerebellar Resting-State Functional Connectivity in Children and Adolescents with Autism Spectrum Disorder. <i>Biological Psychiatry</i> , 2015, 78, 625-634.	1.3	163
16	Patterns of Atypical Functional Connectivity and Behavioral Links in Autism Differ Between Default, Salience, and Executive Networks. <i>Cerebral Cortex</i> , 2016, 26, 4034-4045.	2.9	154
17	Functional brain reorganization in children. <i>Brain and Development</i> , 1996, 18, 347-356.	1.1	152
18	Abnormal Variability and Distribution of Functional Maps in Autism: An fMRI Study of Visuomotor Learning. <i>American Journal of Psychiatry</i> , 2003, 160, 1847-1862.	7.2	143

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19	Atypical Cross Talk Between Mentalizing and Mirror Neuron Networks in Autism Spectrum Disorder. <i>JAMA Psychiatry</i> , 2014, 71, 751.	11.0	143
20	Functional MRI of motor sequence acquisition: effects of learning stage and performance. <i>Cognitive Brain Research</i> , 2002, 14, 277-293.	3.0	141
21	Diagnostic classification of intrinsic functional connectivity highlights somatosensory, default mode, and visual regions in autism. <i>NeuroImage: Clinical</i> , 2015, 8, 238-245.	2.7	141
22	Receptive and expressive language activations for sentences. <i>NeuroReport</i> , 1997, 8, 3767-3770.	1.2	140
23	Brain connectivity in autism. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 349.	2.0	131
24	A typical participation of visual cortex during word processing in autism: An fMRI study of semantic decision. <i>Neuropsychologia</i> , 2007, 45, 1672-1684.	1.6	123
25	Pervasive Rightward Asymmetry Shifts of Functional Networks in Autism Spectrum Disorder. <i>JAMA Psychiatry</i> , 2013, 70, 975.	11.0	122
26	Microstructural abnormalities of short-distance white matter tracts in autism spectrum disorder. <i>Neuropsychologia</i> , 2011, 49, 1378-1382.	1.6	117
27	Effects of generation mode in fMRI adaptations of semantic fluency: Paced production and overt speech. <i>Neuropsychologia</i> , 2007, 45, 1697-1706.	1.6	110
28	Innateness, autonomy, universality? Neurobiological approaches to language. <i>Behavioral and Brain Sciences</i> , 1996, 19, 611-631.	0.7	107
29	Impairment of dentato-thalamo-cortical pathway in autistic men: language activation data from positron emission tomography. <i>Neuroscience Letters</i> , 1998, 245, 1-4.	2.1	107
30	White Matter Compromise of Callosal and Subcortical Fiber Tracts in Children With Autism Spectrum Disorder: A Diffusion Tensor Imaging Study. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2010, 49, 1269-1278.e2.	0.5	104
31	Are nonlinguistic functions in Broca's area prerequisites for language acquisition? fMRI findings from an ontogenetic viewpoint. <i>Brain and Language</i> , 2004, 89, 329-336.	1.6	101
32	Atypical network connectivity for imitation in autism spectrum disorder. <i>Neuropsychologia</i> , 2010, 48, 2931-2939.	1.6	101
33	Functional Differentiation of Posterior Superior Temporal Sulcus in Autism: A Functional Connectivity Magnetic Resonance Imaging Study. <i>Biological Psychiatry</i> , 2011, 70, 270-277.	1.3	101
34	Approaches to local connectivity in autism using resting state functional connectivity MRI. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 605.	2.0	97
35	Repetitive behaviors in autism are linked to imbalance of corticostriatal connectivity: a functional connectivity MRI study. <i>Social Cognitive and Affective Neuroscience</i> , 2018, 13, 32-42.	3.0	95
36	Underconnected, But Not Broken? Dynamic Functional Connectivity MRI Shows Underconnectivity in Autism Is Linked to Increased Intra-Individual Variability Across Time. <i>Brain Connectivity</i> , 2016, 6, 403-414.	1.7	93

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37	Attentional networks in children and adolescents with autism spectrum disorder. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2010, 51, 1251-1259.	5.2	89
38	Brain Organization of Language after Early Unilateral Lesion: A PET Study. <i>Brain and Language</i> , 1998, 62, 422-451.	1.6	86
39	Abnormal activity patterns in premotor cortex during sequence learning in autistic patients. <i>Biological Psychiatry</i> , 2004, 56, 323-332.	1.3	86
40	Functional Connectivity of the Amygdala Is Disrupted in Preschool-Aged Children With Autism Spectrum Disorder. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2016, 55, 817-824.	0.5	86
41	Impact of methodological variables on functional connectivity findings in autism spectrum disorders. <i>Human Brain Mapping</i> , 2014, 35, 4035-4048.	3.6	84
42	Brain Connectivity and Neuroimaging of Social Networks in Autism. <i>Trends in Cognitive Sciences</i> , 2018, 22, 1103-1116.	7.8	84
43	White Matter Compromise of Callosal and Subcortical Fiber Tracts in Children With Autism Spectrum Disorder. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2010, 49, 1269-1278e2.	0.5	84
44	Regional specificity of aberrant thalamocortical connectivity in autism. <i>Human Brain Mapping</i> , 2015, 36, 4497-4511.	3.6	80
45	Network Organization Is Globally Atypical in Autism: A Graph Theory Study of Intrinsic Functional Connectivity. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2017, 2, 66-75.	1.5	70
46	Broca's Area and the Discrimination of Frequency Transitions: A Functional MRI Study. <i>Brain and Language</i> , 2001, 76, 70-76.	1.6	65
47	Children with ASD show links between aberrant sound processing, social symptoms, and atypical auditory interhemispheric and thalamocortical functional connectivity. <i>Developmental Cognitive Neuroscience</i> , 2018, 29, 117-126.	4.0	65
48	Functional connectivity for an "island of sparing" in autism spectrum disorder: An fMRI study of visual search. <i>Human Brain Mapping</i> , 2013, 34, 2524-2537.	3.6	64
49	Plasticity of motor organization in children and adults. <i>NeuroReport</i> , 1997, 8, 3103-3108.	1.2	62
50	Transient states of network connectivity are atypical in autism: A dynamic functional connectivity study. <i>Human Brain Mapping</i> , 2019, 40, 2377-2389.	3.6	61
51	Eye Movement and Visual Search: Are There Elementary Abnormalities in Autism?. <i>Journal of Autism and Developmental Disorders</i> , 2007, 37, 1289-1309.	2.7	60
52	[15O]-water PET and intraoperative brain mapping: A comparison in the localization of eloquent cortex. <i>Neurological Research</i> , 1997, 19, 601-608.	1.3	59
53	Differential Patterns of Language and Motor Reorganization Following Early Left Hemisphere Lesion. <i>Archives of Neurology</i> , 1998, 55, 1113.	4.5	57
54	N-acetyl aspartate in autism spectrum disorders: Regional effects and relationship to fMRI activation. <i>Brain Research</i> , 2007, 1162, 85-97.	2.2	54

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55	Brain Organization of Motor and Language Functions Following Hemispherectomy: A [15O]-Water Positron Emission Tomography Study. <i>Journal of Child Neurology</i> , 1998, 13, 16-22.	1.4	53
56	Reduced integration and differentiation of the imitation network in autism: A combined functional connectivity magnetic resonance imaging and diffusion-weighted imaging study. <i>Annals of Neurology</i> , 2015, 78, 958-969.	5.3	53
57	Under-reactive but easily distracted: An fMRI investigation of attentional capture in autism spectrum disorder. <i>Developmental Cognitive Neuroscience</i> , 2016, 17, 46-56.	4.0	53
58	Activity and functional connectivity of inferior frontal cortex associated with response conflict. <i>Cognitive Brain Research</i> , 2005, 24, 335-342.	3.0	52
59	Functional brain organization for visual search in ASD. <i>Journal of the International Neuropsychological Society</i> , 2008, 14, 990-1003.	1.8	52
60	Multimodal approaches to functional connectivity in autism spectrum disorders: An integrative perspective. <i>Developmental Neurobiology</i> , 2018, 78, 456-473.	3.0	48
61	Corticospinal Tract Anatomy and Functional Connectivity of Primary Motor Cortex in Autism. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2015, 54, 859-867.	0.5	47
62	Local resting state functional connectivity in autism: site and cohort variability and the effect of eye status. <i>Brain Imaging and Behavior</i> , 2018, 12, 168-179.	2.1	46
63	Atypical lexicosemantic function of extrastriate cortex in autism spectrum disorder: Evidence from functional and effective connectivity. <i>NeuroImage</i> , 2012, 62, 1780-1791.	4.2	44
64	Linguistic theory and neuroimaging evidence: an fMRI study of Broca's area in lexical semantics. <i>Neuropsychologia</i> , 2003, 41, 1199-1207.	1.6	43
65	Local Cortical Gyri-fication is Increased in Children With Autism Spectrum Disorders, but Decreases Rapidly in Adolescents. <i>Cerebral Cortex</i> , 2019, 29, 2412-2423.	2.9	43
66	Autism, Attention, and Alpha Oscillations: An Electrophysiological Study of Attentional Capture. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2017, 2, 528-536.	1.5	41
67	Positive effects of neurofeedback on autism symptoms correlate with brain activation during imitation and observation. <i>European Journal of Neuroscience</i> , 2018, 47, 579-591.	2.6	40
68	Brief Report: Eye-Movement Patterns During an Embedded Figures Test in Children with ASD. <i>Journal of Autism and Developmental Disorders</i> , 2009, 39, 383-387.	2.7	38
69	The Influence of Task Difficulty and Participant Age on Balance Control in ASD. <i>Journal of Autism and Developmental Disorders</i> , 2015, 45, 1419-1427.	2.7	38
70	Impaired downregulation of visual cortex during auditory processing is associated with autism symptomatology in children and adolescents with autism spectrum disorder. <i>Autism Research</i> , 2017, 10, 130-143.	3.8	37
71	Psychotropic Medication Use in Autism Spectrum Disorders May Affect Functional Brain Connectivity. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2017, 2, 518-527.	1.5	35
72	An fMRI study of sentence-embedded lexical-semantic decision in children and adults. <i>Brain and Language</i> , 2010, 114, 90-100.	1.6	34

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73	Distributed Intrinsic Functional Connectivity Patterns Predict Diagnostic Status in Large Autism Cohort. <i>Brain Connectivity</i> , 2017, 7, 515-525.	1.7	33
74	Sensory Symptoms and Processing of Nonverbal Auditory and Visual Stimuli in Children with Autism Spectrum Disorder. <i>Journal of Autism and Developmental Disorders</i> , 2016, 46, 1590-1601.	2.7	32
75	Editorial: Time to give up on Autism Spectrum Disorder?. <i>Autism Research</i> , 2017, 10, 10-14.	3.8	32
76	Performance of machine learning classification models of autism using resting-state fMRI is contingent on sample heterogeneity. <i>Neural Computing and Applications</i> , 2021, 33, 3299-3310.	5.6	30
77	Modularism, holism, connectionism: Old conflicts and new perspectives in aphasiology and neuropsychology. <i>Aphasiology</i> , 1992, 6, 443-475.	2.2	28
78	Gaps in Current Autism Research: The Thoughts of the Autism Research Editorial Board and Associate Editors. <i>Autism Research</i> , 2019, 12, 700-714.	3.8	28
79	The language network in autism: Atypical functional connectivity with default mode and visual regions. <i>Autism Research</i> , 2019, 12, 1344-1355.	3.8	27
80	From Loci to Networks and Back Again. <i>Annals of the New York Academy of Sciences</i> , 2008, 1145, 300-315.	3.8	26
81	The cingulum and cingulate U fibers in children and adolescents with autism spectrum disorders. <i>Human Brain Mapping</i> , 2019, 40, 3153-3164.	3.6	26
82	Plasticity of the language network in children and adults: Differential effects of early versus late lesions. <i>NeuroImage</i> , 1996, 3, S585.	4.2	25
83	Language and Motor Functions Activate Calcified Hemisphere in Patients With Sturge-Weber Syndrome: A Positron Emission Tomography Study. <i>Journal of Child Neurology</i> , 1997, 12, 431-437.	1.4	25
84	Functional organization of hand movement in children and adults. <i>NeuroImage</i> , 1996, 3, S402.	4.2	24
85	Motor organization after early middle cerebral artery stroke: a pet study. <i>Pediatric Neurology</i> , 1998, 19, 294-298.	2.1	23
86	Developmental Changes of Cortical and Cerebellar Motor Control: A Clinical Positron Emission Tomography Study With Children and Adults. <i>Journal of Child Neurology</i> , 1998, 13, 550-556.	1.4	23
87	Atypical Local and Distal Patterns of Occipito-frontal Functional Connectivity are Related to Symptom Severity in Autism. <i>Cerebral Cortex</i> , 2019, 29, 3319-3330.	2.9	23
88	Atypical Relationships Between Spontaneous EEG and fMRI Activity in Autism. <i>Brain Connectivity</i> , 2020, 10, 18-28.	1.7	21
89	Category-specific activations during word generation reflect experiential sensorimotor modalities. <i>NeuroImage</i> , 2009, 48, 717-725.	4.2	20
90	Regionally decreased gyrification in middle-aged adults with autism spectrum disorders. <i>Neurology</i> , 2019, 93, e1900-e1905.	1.1	20

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91	Distinct Patterns of Atypical Functional Connectivity in Lower-Functioning Autism. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2019, 4, 251-259.	1.5	20
92	Impaired motor skills and atypical functional connectivity of the sensorimotor system in 40- to 65-year-old adults with autism spectrum disorders. <i>Neurobiology of Aging</i> , 2020, 85, 104-112.	3.1	19
93	Greater functional connectivity between sensory networks is related to symptom severity in toddlers with autism spectrum disorder. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2021, 62, 160-170.	5.2	19
94	Task-related activations in heterotopic brain malformations. <i>NeuroReport</i> , 1998, 9, 2527-2532.	1.2	17
95	Functional Connectivities Are More Informative Than Anatomical Variables in Diagnostic Classification of Autism. <i>Brain Connectivity</i> , 2019, 9, 604-612.	1.7	17
96	Dopaminergic hypo-activity and reduced theta-band power in autism spectrum disorder: A resting-state EEG study. <i>International Journal of Psychophysiology</i> , 2019, 146, 101-106.	1.0	17
97	Sex-related patterns of intrinsic functional connectivity in children and adolescents with autism spectrum disorders. <i>Autism</i> , 2020, 24, 2190-2201.	4.1	17
98	Restriction Spectrum Imaging As a Potential Measure of Cortical Neurite Density in Autism. <i>Frontiers in Neuroscience</i> , 2016, 10, 610.	2.8	16
99	White matter compromise in autism? Differentiating motion confounds from true differences in diffusion tensor imaging. <i>Autism Research</i> , 2017, 10, 1606-1620.	3.8	15
100	EEG microstates suggest atypical resting-state network activity in high-functioning children and adolescents with autism spectrum development. <i>Developmental Science</i> , 2022, 25, e13231.	2.4	15
101	Determination of Language Dominance by [15O]-Water PET in Children and Adolescents: A Comparison with the Wada Test. <i>Journal of Epilepsy</i> , 1998, 11, 152-161.	0.4	14
102	Underconnectivity Between Visual and Salience Networks and Links With Sensory Abnormalities in Autism Spectrum Disorders. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2021, 60, 274-285.	0.5	10
103	Cortical myelination in toddlers and preschoolers with autism spectrum disorder. <i>Developmental Neurobiology</i> , 2022, 82, 261-274.	3.0	10
104	A big "cohousing" problem and a trace of neuroimaging: Broca's area is more than a transformation center. <i>Behavioral and Brain Sciences</i> , 2000, 23, 42-42.	0.7	9
105	Neurocognitive studies of language impairments: The bottom-up approach. <i>Applied Psycholinguistics</i> , 2005, 26, 65-78.	1.1	8
106	Sleep Problems in Preschoolers With Autism Spectrum Disorder Are Associated With Sensory Sensitivities and Thalamocortical Overconnectivity. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2023, 8, 21-31.	1.5	8
107	Supplementary and Premotor Aspects of the Corticospinal Tract Show Links with Restricted and Repetitive Behaviors in Middle-Aged Adults with Autism Spectrum Disorder. <i>Cerebral Cortex</i> , 2021, 31, 3962-3972.	2.9	7
108	MEG Theta during Lexico-Semantic and Executive Processing Is Altered in High-Functioning Adolescents with Autism. <i>Cerebral Cortex</i> , 2021, 31, 1116-1130.	2.9	6

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109	Functional connectivity within an anxiety network and associations with anxiety symptom severity in middle-aged adults with and without autism. <i>Autism Research</i> , 2021, 14, 2100-2112.	3.8	5
110	Anatomical and Functional Connectivity in Autism Spectrum Disorders. , 2014, , 49-75.		5
111	The epigenesis of regional specificity. <i>Behavioral and Brain Sciences</i> , 1996, 19, 650-675.	0.7	1
112	Blackboards in the brain. <i>Behavioral and Brain Sciences</i> , 2006, 29, 81-81.	0.7	1
113	Abandoning ASD? A response to Waterhouse, London, and Gillberg. <i>Autism Research</i> , 2017, 10, 1183-1183.	3.8	1
114	Blood Oxygen Level-Dependent Lag Patterns Differ Between Rest and Task Conditions, but Are Largely Typical in Autism. <i>Brain Connectivity</i> , 2022, 12, 234-245.	1.7	1
115	Homology, neurogenetic imprecision, and lesional complexity. <i>Behavioral and Brain Sciences</i> , 1999, 22, 573-574.	0.7	0
116	Weak evidence for a strong case against modularity in developmental disorders. <i>Behavioral and Brain Sciences</i> , 2002, 25, 764-765.	0.7	0
117	A functional connectivity-based classification approach to autism spectrum disorder: only as good (or bad) as available diagnostic criteria. <i>Future Neurology</i> , 2012, 7, 259-262.	0.5	0
118	594. Impaired Motor Function and Atypical Motor Cortex Connectivity in Mature Adults with Autism Spectrum Disorder. <i>Biological Psychiatry</i> , 2017, 81, S240-S241.	1.3	0
119	Brain changes in adolescence—it is about time to get serious in autism spectrum disorder research. <i>Autism Research</i> , 2018, 12, v.	3.8	0
120	Functional Connectivity in Autism Spectrum Disorders: Challenges and Perspectives. , 2021, , 239-272.		0
121	Chapter 14 Brain network organization in ASD. , 2016, , 287-318.		0
122	Morphometry and functional connectivity of auditory cortex in school-age children with profound language disabilities: Five comparative case studies. <i>Brain and Cognition</i> , 2021, 155, 105822.	1.8	0