

Ryan L Muetzel

List of Publications by Year in descending order

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Version: 2024-02-01

111
papers

5,316
citations

87888

38
h-index

98798

67
g-index

118
all docs

118
docs citations

118
times ranked

8614
citing authors

#	ARTICLE	IF	CITATIONS
1	Association of maternal thyroid function during early pregnancy with offspring IQ and brain morphology in childhood: a population-based prospective cohort study. <i>Lancet Diabetes and Endocrinology</i> , 2016, 4, 35-43.	11.4	381
2	Brain Imaging of the Cortex in ADHD: A Coordinated Analysis of Large-Scale Clinical and Population-Based Samples. <i>American Journal of Psychiatry</i> , 2019, 176, 531-542.	7.2	261
3	Neurocognitive and neuroimaging correlates of pediatric traumatic brain injury: A diffusion tensor imaging (DTI) study. <i>Archives of Clinical Neuropsychology</i> , 2007, 22, 555-568.	0.5	256
4	Novel genetic loci underlying human intracranial volume identified through genome-wide association. <i>Nature Neuroscience</i> , 2016, 19, 1569-1582.	14.8	213
5	Altered White Matter Microstructure in Adolescents With Major Depression: A Preliminary Study. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2010, 49, 173-183e1.	0.5	191
6	White Matter Integrity Predicts Delay Discounting Behavior in 9- to 23-Year-Olds: A Diffusion Tensor Imaging Study. <i>Journal of Cognitive Neuroscience</i> , 2009, 21, 1406-1421.	2.3	167
7	Longitudinal changes in behavioral approach system sensitivity and brain structures involved in reward processing during adolescence.. <i>Developmental Psychology</i> , 2012, 48, 1488-1500.	1.6	165
8	Air Pollution Exposure During Fetal Life, Brain Morphology, and Cognitive Function in School-Age Children. <i>Biological Psychiatry</i> , 2018, 84, 295-303.	1.3	159
9	The development of corpus callosum microstructure and associations with bimanual task performance in healthy adolescents. <i>NeuroImage</i> , 2008, 39, 1918-1925.	4.2	145
10	Paediatric population neuroimaging and the Generation R Study: the second wave. <i>European Journal of Epidemiology</i> , 2018, 33, 99-125.	5.7	129
11	Diffusion Tensor Imaging in Children with Fetal Alcohol Spectrum Disorders. <i>Alcoholism: Clinical and Experimental Research</i> , 2006, 30, 1799-1806.	2.4	114
12	Patterns of functional connectivity in an aging population: The Rotterdam Study. <i>NeuroImage</i> , 2019, 189, 432-444.	4.2	114
13	Effects of alcohol use initiation on brain structure in typically developing adolescents. <i>American Journal of Drug and Alcohol Abuse</i> , 2013, 39, 345-355.	2.1	112
14	Microstructural Corpus Callosum Anomalies in Children With Prenatal Alcohol Exposure: An Extension of Previous Diffusion Tensor Imaging Findings. <i>Alcoholism: Clinical and Experimental Research</i> , 2009, 33, 1825-1835.	2.4	111
15	Tracking Brain Development and Dimensional Psychiatric Symptoms in Children: A Longitudinal Population-Based Neuroimaging Study. <i>American Journal of Psychiatry</i> , 2018, 175, 54-62.	7.2	104
16	What Does Diffusion Tensor Imaging Reveal About the Brain and Cognition in Fetal Alcohol Spectrum Disorders?. <i>Neuropsychology Review</i> , 2011, 21, 133-147.	4.9	96
17	Connectivity dynamics in typical development and its relationship to autistic traits and autism spectrum disorder. <i>Human Brain Mapping</i> , 2018, 39, 3127-3142.	3.6	94
18	Maternal thyroid function during pregnancy and child brain morphology: a time window-specific analysis of a prospective cohort. <i>Lancet Diabetes and Endocrinology</i> , 2019, 7, 629-637.	11.4	94

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19	Associations between cortical thickness and general intelligence in children, adolescents and young adults. <i>Intelligence</i> , 2013, 41, 597-606.	3.0	90
20	Incidental Findings on Brain Imaging in the General Pediatric Population. <i>New England Journal of Medicine</i> , 2017, 377, 1593-1595.	27.0	83
21	Global Functional Connectivity Abnormalities in Children with <sc>F</sc>etal <sc>A</sc>lcohol <sc>S</sc>pectrum <sc>D</sc>isorders. <i>Alcoholism: Clinical and Experimental Research</i> , 2013, 37, 748-756.	2.4	82
22	Insensitive parenting may accelerate the development of the amygdalaâ€œmedial prefrontal cortex circuit. <i>Development and Psychopathology</i> , 2017, 29, 505-518.	2.3	79
23	Prenatal folate, homocysteine and vitamin B₁₂ levels and child brain volumes, cognitive development and psychological functioning: the Generation R Study. <i>British Journal of Nutrition</i> , 2019, 122, S1-S9.	2.3	75
24	Genetic variants associated with longitudinal changes in brain structure across the lifespan. <i>Nature Neuroscience</i> , 2022, 25, 421-432.	14.8	75
25	White matter integrity and cognitive performance in school-age children: A population-based neuroimaging study. <i>NeuroImage</i> , 2015, 119, 119-128.	4.2	74
26	White matter and neurocognitive changes in adults with chronic traumatic brain injury. <i>Journal of the International Neuropsychological Society</i> , 2009, 15, 130-136.	1.8	73
27	Cortical Morphology in 6- to 10-Year Old Children With Autistic Traits: A Population-Based Neuroimaging Study. <i>American Journal of Psychiatry</i> , 2015, 172, 479-486.	7.2	69
28	High Connectivity Between Reduced Cortical Thickness and Disrupted White Matter Tracts in Long-Standing Type 1 Diabetes. <i>Diabetes</i> , 2011, 60, 315-319.	0.6	61
29	Restingâ€œstate networks in 6â€œtoâ€œ10 year old children. <i>Human Brain Mapping</i> , 2016, 37, 4286-4300.	3.6	59
30	Effects of reward sensitivity and regional brain volumes on substance use initiation in adolescence. <i>Social Cognitive and Affective Neuroscience</i> , 2015, 10, 106-113.	3.0	57
31	Associations between cortical thickness and verbal fluency in childhood, adolescence, and young adulthood. <i>NeuroImage</i> , 2011, 55, 1865-1877.	4.2	56
32	Inter-Hemispheric Functional Connectivity Disruption in Children With Prenatal Alcohol Exposure. <i>Alcoholism: Clinical and Experimental Research</i> , 2011, 35, 849-861.	2.4	53
33	Exposure to Maternal Depressive Symptoms in Fetal Life or Childhood and Offspring Brain Development: A Population-Based Imaging Study. <i>American Journal of Psychiatry</i> , 2019, 176, 702-710.	7.2	53
34	Cerebral and muscle MRI abnormalities in myotonic dystrophy. <i>Neuromuscular Disorders</i> , 2012, 22, 483-491.	0.6	52
35	Automated quality assessment of structural magnetic resonance images in children: Comparison with visual inspection and surfaceâ€œbased reconstruction. <i>Human Brain Mapping</i> , 2018, 39, 1218-1231.	3.6	51
36	PRENATAL EXPOSURE TO MATERNAL AND PATERNAL DEPRESSIVE SYMPTOMS AND BRAIN MORPHOLOGY: A POPULATION-BASED PROSPECTIVE NEUROIMAGING STUDY IN YOUNG CHILDREN. <i>Depression and Anxiety</i> , 2016, 33, 658-666.	4.1	46

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37	Frequent Bullying Involvement and Brain Morphology in Children. <i>Frontiers in Psychiatry</i> , 2019, 10, 696.	2.6	46
38	Pubertal status associations with reward and threat sensitivities and subcortical brain volumes during adolescence. <i>Brain and Cognition</i> , 2014, 89, 15-26.	1.8	45
39	The Developmental Course of Sleep Disturbances Across Childhood Relates to Brain Morphology at Age 7: The Generation R Study. <i>Sleep</i> , 2017, 40, .	1.1	43
40	Cortical gyrfication in relation to age and cognition in older adults. <i>NeuroImage</i> , 2020, 212, 116637.	4.2	43
41	In vivo 1H magnetic resonance spectroscopy in young-adult daily marijuana users. <i>NeuroImage: Clinical</i> , 2013, 2, 581-589.	2.7	42
42	Diffusion tensor imaging reveals widespread white matter abnormalities in children and adolescents with myotonic dystrophy type 1. <i>Journal of Neurology</i> , 2013, 260, 1122-1131.	3.6	40
43	Common Polygenic Variations for Psychiatric Disorders and Cognition in Relation to Brain Morphology in the General Pediatric Population. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2019, 58, 600-607.	0.5	40
44	Air pollution exposure during pregnancy and childhood and brain morphology in preadolescents. <i>Environmental Research</i> , 2021, 198, 110446.	7.5	39
45	Cognitive functioning in children with internalising, externalising and dysregulation problems: a population-based study. <i>European Child and Adolescent Psychiatry</i> , 2017, 26, 445-456.	4.7	38
46	Prenatal exposure to maternal and paternal depressive symptoms and white matter microstructure in children. <i>Depression and Anxiety</i> , 2018, 35, 321-329.	4.1	34
47	A multicohort, longitudinal study of cerebellar development in attention deficit hyperactivity disorder. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2018, 59, 1114-1123.	5.2	34
48	Exposure to Air Pollution during Pregnancy and Childhood, and White Matter Microstructure in Preadolescents. <i>Environmental Health Perspectives</i> , 2020, 128, 27005.	6.0	32
49	Genome-wide association study of 23,500 individuals identifies 7 loci associated with brain ventricular volume. <i>Nature Communications</i> , 2018, 9, 3945.	12.8	31
50	White Matter Microstructure and the General Psychopathology Factor in Children. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2020, 59, 1285-1296.	0.5	31
51	Time of Acquisition and Network Stability in Pediatric Resting-State Functional Magnetic Resonance Imaging. <i>Brain Connectivity</i> , 2014, 4, 417-427.	1.7	30
52	Neonatal critical illness and development: white matter and hippocampus alterations in school-age neonatal extracorporeal membrane oxygenation survivors. <i>Developmental Medicine and Child Neurology</i> , 2017, 59, 304-310.	2.1	28
53	Associations of physical activity and screen time with white matter microstructure in children from the general population. <i>NeuroImage</i> , 2020, 205, 116258.	4.2	28
54	Association of Gestational Age at Birth With Brain Morphometry. <i>JAMA Pediatrics</i> , 2020, 174, 1149.	6.2	28

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55	White matter microstructure in children with autistic traits. <i>Psychiatry Research - Neuroimaging</i> , 2017, 263, 127-134.	1.8	23
56	White matter microstructure correlates of age, sex, handedness and motor ability in a population-based sample of 3031 school-age children. <i>NeuroImage</i> , 2021, 227, 117643.	4.2	22
57	Neurobiologic Correlates of Attention and Memory Deficits Following Critical Illness in Early Life*. <i>Critical Care Medicine</i> , 2017, 45, 1742-1750.	0.9	21
58	Brain Morphology Associated With Obsessive-Compulsive Symptoms in 2,551 Children From the General Population. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2021, 60, 470-478.	0.5	21
59	Maternal prepregnancy body mass index and offspring white matter microstructure: results from three birth cohorts. <i>International Journal of Obesity</i> , 2019, 43, 1995-2006.	3.4	20
60	Altered White Matter Microstructure in Adolescents With Major Depression: A Preliminary Study. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2010, 49, 173-183.e1.	0.5	19
61	Structural Brain Connectivity in Childhood Disruptive Behavior Problems: A Multidimensional Approach. <i>Biological Psychiatry</i> , 2019, 85, 336-344.	1.3	19
62	Observed infant-parent attachment and brain morphology in middle childhood— A population-based study. <i>Developmental Cognitive Neuroscience</i> , 2019, 40, 100724.	4.0	19
63	The prospective association of objectively measured sleep and cerebral white matter microstructure in middle-aged and older persons. <i>Sleep</i> , 2019, 42, .	1.1	18
64	Interaction of schizophrenia polygenic risk and cortisol level on pre-adolescent brain structure. <i>Psychoneuroendocrinology</i> , 2019, 101, 295-303.	2.7	16
65	Autistic traits and neuropsychological performance in 6- to-10-year-old children: a population-based study. <i>Child Neuropsychology</i> , 2019, 25, 352-369.	1.3	16
66	Alcohol use and brain morphology in adolescence: A longitudinal study in three different cohorts. <i>European Journal of Neuroscience</i> , 2021, 54, 6012-6026.	2.6	16
67	Childhood sleep disturbances and white matter microstructure in preadolescence. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2019, 60, 1242-1250.	5.2	15
68	Cavum Septum Pellucidum in the General Pediatric Population and Its Relation to Surrounding Brain Structure Volumes, Cognitive Function, and Emotional or Behavioral Problems. <i>American Journal of Neuroradiology</i> , 2019, 40, 340-346.	2.4	14
69	Neural Profile of Callous Traits in Children: A Population-Based Neuroimaging Study. <i>Biological Psychiatry</i> , 2019, 85, 399-407.	1.3	14
70	Developmental Changes in Dynamic Functional Connectivity From Childhood Into Adolescence. <i>Frontiers in Systems Neuroscience</i> , 2021, 15, 724805.	2.5	14
71	No association between hair cortisol or cortisone and brain morphology in children. <i>Psychoneuroendocrinology</i> , 2016, 74, 101-110.	2.7	13
72	Association of Poor Family Functioning From Pregnancy Onward With Preadolescent Behavior and Subcortical Brain Development. <i>JAMA Psychiatry</i> , 2021, 78, 29.	11.0	13

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73	Cortical thickness and prosocial behavior in school-age children: A population-based MRI study. <i>Social Neuroscience</i> , 2015, 10, 571-582.	1.3	12
74	Differential patterns of age-related cortical and subcortical functional connectivity in 6- to 10 year old children: A connectome-wide association study. <i>Brain and Behavior</i> , 2018, 8, e01031.	2.2	12
75	Physical Activity, Sedentary Behavior, and White Matter Microstructure in Children with Overweight or Obesity. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 1218-1226.	0.4	12
76	Polygenic Multiple Sclerosis Risk and Population-Based Childhood Brain Imaging. <i>Annals of Neurology</i> , 2020, 87, 774-787.	5.3	12
77	QDECR: A Flexible, Extensible Vertex-Wise Analysis Framework in R. <i>Frontiers in Neuroinformatics</i> , 2021, 15, 561689.	2.5	12
78	Brain morphology, autistic traits, and polygenic risk for autism: A population-based neuroimaging study. <i>Autism Research</i> , 2021, 14, 2085-2099.	3.8	12
79	Cognitive performance in children and adolescents with psychopathology traits: A cross-sectional multicohort study in the general population. <i>Development and Psychopathology</i> , 2023, 35, 926-940.	2.3	12
80	Genetic associations with childhood brain growth, defined in two longitudinal cohorts. <i>Genetic Epidemiology</i> , 2018, 42, 405-414.	1.3	11
81	Polygenic Scores for Neuropsychiatric Traits and White Matter Microstructure in the Pediatric Population. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2019, 4, 243-250.	1.5	11
82	Estimated whole-brain and lobe-specific radiofrequency electromagnetic fields doses and brain volumes in preadolescents. <i>Environment International</i> , 2020, 142, 105808.	10.0	11
83	Exposure to traffic-related air pollution and noise during pregnancy and childhood, and functional brain connectivity in preadolescents. <i>Environment International</i> , 2022, 164, 107275.	10.0	11
84	Air pollution exposure during pregnancy and childhood, cognitive function, and emotional and behavioral problems in adolescents. <i>Environmental Research</i> , 2022, 214, 113891.	7.5	10
85	The honest truth about deception: Demographic, cognitive, and neural correlates of child repeated deceptive behavior. <i>Journal of Experimental Child Psychology</i> , 2017, 162, 225-241.	1.4	9
86	A prospective population-based study of gestational vitamin D status and brain morphology in preadolescents. <i>NeuroImage</i> , 2020, 209, 116514.	4.2	9
87	Lateralization of Resting-State Networks in Children: Association with Age, Sex, Handedness, Intelligence Quotient, and Behavior. <i>Brain Connectivity</i> , 2022, 12, 246-259.	1.7	9
88	Patterns of Fetal and Infant Growth and Brain Morphology at Age 10 Years. <i>JAMA Network Open</i> , 2021, 4, e2138214.	5.9	9
89	Sleep and resting-state functional magnetic resonance imaging connectivity in middle-aged adults and the elderly: A population-based study. <i>Journal of Sleep Research</i> , 2020, 29, e12999.	3.2	8
90	Genetic Burden for Late-Life Neurodegenerative Disease and Its Association With Early-Life Lipids, Brain, Behavior, and Cognition. <i>Frontiers in Psychiatry</i> , 2020, 11, 33.	2.6	8

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91	Neuroanatomical correlates of donating behavior in middle childhood. <i>Social Neuroscience</i> , 2018, 13, 541-552.	1.3	7
92	Body fat, cardiovascular risk factors and brain structure in school-age children. <i>International Journal of Obesity</i> , 2021, 45, 2425-2431.	3.4	6
93	Cortical Structures Associated With Sports Participation in Children: A Population-Based Study. <i>Developmental Neuropsychology</i> , 2017, 42, 58-69.	1.4	5
94	Klotho gene polymorphism, brain structure and cognition in early-life development. <i>Brain Imaging and Behavior</i> , 2020, 14, 213-225.	2.1	5
95	Cortical morphology as a shared neurobiological substrate of attention-deficit/hyperactivity symptoms and executive functioning: a population-based pediatric neuroimaging study. <i>Journal of Psychiatry and Neuroscience</i> , 2017, 42, 103-112.	2.4	5
96	16. Brain Imaging of ADHD Across the Lifespan – Results of the Largest Study Worldwide From the Enigma ADHD Working Group. <i>Biological Psychiatry</i> , 2019, 85, S6-S7.	1.3	3
97	Is the brain involved in patients with late-onset Pompe disease?. <i>Journal of Inherited Metabolic Disease</i> , 2021, , .	3.6	3
98	Hallucinations and Brain Morphology Across Early Adolescence: A Longitudinal Neuroimaging Study. <i>Biological Psychiatry</i> , 2022, 92, 781-790.	1.3	3
99	Online orientation distribution function reconstruction in constant solid angle and its application to motion detection in HARDI. , 2010, , .		2
100	Population Neuroscience. <i>Mental Health and Illness Worldwide</i> , 2020, , 1-22.	0.1	2
101	Connecting the dots: social networks in the classroom and white matter connections in the brain. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2022, 63, 1622-1630.	5.2	2
102	Maternal thyroid function and child IQ – Authors' reply. <i>Lancet Diabetes and Endocrinology</i> , the, 2016, 4, 18.	11.4	1
103	T60. ADHD and the Cortex: Evidence From Large Clinical and Population Based Samples. <i>Biological Psychiatry</i> , 2018, 83, S152.	1.3	1
104	The Long-Term Association of Disorganized Attachment and Harsh Parenting With Brain Morphology: A Large Population-Based Study. <i>Biological Psychiatry</i> , 2020, 87, S3.	1.3	1
105	Population Neuroscience. <i>Mental Health and Illness Worldwide</i> , 2020, , 117-138.	0.1	1
106	Long-term associations between early-life family functioning and preadolescent white matter microstructure. <i>Psychological Medicine</i> , 0, , 1-11.	4.5	1
107	2.22 BRAIN MORPHOLOGY AND INTERNALIZING PROBLEMS IN YOUNG CHILDREN: A POPULATION-BASED STUDY. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2016, 55, S127-S128.	0.5	0
108	OP I – Prenatal and postnatal exposure to air pollution and white matter microstructure in school-age children. , 2018, , .		0

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109	P4â€042: HIGHâ€DIMENSIONAL ANALYSIS OF RNA EXPRESSION WITH CORTICAL THICKNESS. Alzheimer's and Dementia, 2018, 14, P1449.	0.8	0
110	Association of Gestational Age at Birth With Brain Morphometry. Obstetrical and Gynecological Survey, 2021, 76, 67-68.	0.4	0
111	Genetic factors associated with higher segregation of brain networks and cognition mediated by cardiovascular health: GWAS and Mendelian randomization analyses in the UK Biobank and Rotterdam Study.. Alzheimer's and Dementia, 2021, 17 Suppl 3, e053519.	0.8	0