Megan M Herting

List of Publications by Year
in descending order

60 papers	4,462 citations	159585 30 h-index	144013 57 g-index
63 all docs	63 docs citations	63 times ranked	6145 citing authors

#	Article	IF	Citations
1	Image processing and analysis methods for the Adolescent Brain Cognitive Development Study. NeuroImage, 2019, 202, 116091.	4.2	539
2	Development of the Cerebral Cortex across Adolescence: A Multisample Study of Inter-Related Longitudinal Changes in Cortical Volume, Surface Area, and Thickness. Journal of Neuroscience, 2017, 37, 3402-3412.	3.6	496
3	Structural brain development between childhood and adulthood: Convergence across four longitudinal samples. NeuroImage, 2016, 141, 273-281.	4.2	427
4	The Impact of Sex, Puberty, and Hormones on White Matter Microstructure in Adolescents. Cerebral Cortex, 2012, 22, 1979-1992.	2.9	288
5	Puberty and structural brain development in humans. Frontiers in Neuroendocrinology, 2017, 44, 122-137.	5.2	202
6	The role of testosterone and estradiol in brain volume changes across adolescence: A longitudinal structural MRI study. Human Brain Mapping, 2014, 35, 5633-5645.	3.6	192
7	Low-Cost Air Quality Monitoring Tools: From Research to Practice (A Workshop Summary). Sensors, 2017, 17, 2478.	3.8	144
8	Development of subcortical volumes across adolescence in males and females: A multisample study of longitudinal changes. NeuroImage, 2018, 172, 194-205.	4.2	133
9	A Longitudinal Study: Changes in Cortical Thickness and Surface Area during Pubertal Maturation. PLoS ONE, 2015, 10, e0119774.	2.5	113
10	Quality Control of Structural MRI Images Applied Using FreeSurferâ€"A Hands-On Workflow to Rate Motion Artifacts. Frontiers in Neuroscience, 2016, 10, 558.	2.8	111
11	Aerobic fitness relates to learning on a virtual Morris Water Task and hippocampal volume in adolescents. Behavioural Brain Research, 2012, 233, 517-525.	2.2	108
12	Delay Discounting Behavior and White Matter Microstructure Abnormalities in Youth With a Family History of Alcoholism. Alcoholism: Clinical and Experimental Research, 2010, 34, 1590-1602.	2.4	103
13	Hemispheric lateralization of verbal and spatial working memory during adolescence. Brain and Cognition, 2013, 82, 58-68.	1.8	98
14	Test-retest reliability of longitudinal task-based fMRI: Implications for developmental studies. Developmental Cognitive Neuroscience, 2018, 33, 17-26.	4.0	97
15	Altered fronto-cerebellar connectivity in alcohol-naÃ¯ve youth with a family history of alcoholism. NeuroImage, 2011, 54, 2582-2589.	4.2	92
16	Neuroanatomical morphometric characterization of sex differences in youth using statistical learning. NeuroImage, 2018, 172, 217-227.	4.2	82
17	White matter connectivity and aerobic fitness in male adolescents. Developmental Cognitive Neuroscience, 2014, 7, 65-75.	4.0	68
18	The Roles of Physical Activity, Exercise, and Fitness in Promoting Resilience During Adolescence: Effects on Mental Well-Being and Brain Development. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2021, 6, 225-237.	1.5	68

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19	Fine particulate matter exposure during childhood relates to hemispheric-specific differences in brain structure. Environment International, 2020, 143, 105933.	10.0	65
20	Inter-individual variability in structural brain development from late childhood to young adulthood. NeuroImage, 2021, 242, 118450.	4.2	64
21	High and low sensation seeking adolescents show distinct patterns of brain activity during reward processing. NeuroImage, 2013, 66, 184-193.	4.2	63
22	Exercise, cognition, and the adolescent brain. Birth Defects Research, 2017, 109, 1672-1679.	1.5	59
23	Longitudinal changes in pubertal maturation and white matter microstructure. Psychoneuroendocrinology, 2017, 81, 70-79.	2.7	58
24	Prenatal air pollution exposure and neurodevelopment: A review and blueprint for a harmonized approach within ECHO. Environmental Research, 2021, 196, 110320.	7.5	53
25	Differences in Brain Activity during a Verbal Associative Memory Encoding Task in High- and Low-fit Adolescents. Journal of Cognitive Neuroscience, 2013, 25, 595-612.	2.3	50
26	White matter microstructure correlates of inhibition and task-switching in adolescents. Brain Research, 2013, 1527, 15-28.	2.2	49
27	Association of Local Variation in Neighborhood Disadvantage in Metropolitan Areas With Youth Neurocognition and Brain Structure. JAMA Pediatrics, 2021, 175, e210426.	6.2	48
28	White matter microstructure among youth with perinatally acquired HIV is associated with disease severity. Aids, 2015, 29, 1035-1044.	2.2	47
29	Correspondence Between Perceived Pubertal Development and Hormone Levels in 9-10 Year-Olds From the Adolescent Brain Cognitive Development Study. Frontiers in Endocrinology, 2020, 11, 549928.	3.5	45
30	Adolescent Brain Cognitive Development (ABCD) study Linked External Data (LED): Protocol and practices for geocoding and assignment of environmental data. Developmental Cognitive Neuroscience, 2021, 52, 101030.	4.0	44
31	Outdoor Air Pollution and Brain Structure and Function From Across Childhood to Young Adulthood: A Methodological Review of Brain MRI Studies. Frontiers in Public Health, 2019, 7, 332.	2.7	41
32	A Researcherâ€™s Guide to the Measurement and Modeling of Puberty in the ABCD StudyÂ® at Baseline. Frontiers in Endocrinology, 2021, 12, 608575.	3.5	34
33	Lower total and regional grey matter brain volumes in youth with perinatally-acquired HIV infection: Associations with HIV disease severity, substance use, and cognition. Brain, Behavior, and Immunity, 2017, 62, 100-109.	4.1	32
34	Brain Differences in the Prefrontal Cortex, Amygdala, and Hippocampus in Youth with Congenital Adrenal Hyperplasia. Journal of Clinical Endocrinology and Metabolism, 2020, 105, 1098-1111.	3.6	31
35	Contextualizing adolescent structural brain development: Environmental determinants and mental health outcomes. Current Opinion in Psychology, 2022, 44, 170-176.	4.9	31
36	Default Mode Connectivity in Youth With Perinatally Acquired HIV. Medicine (United States), 2015, 94, e1417.	1.0	30

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37	Rates of Incidental Findings in Brain Magnetic Resonance Imaging in Children. JAMA Neurology, 2021, 78, 578.	9.0	28
38	Aerobic Fitness Linked to Cortical Brain Development in Adolescent Males: Preliminary Findings Suggest a Possible Role of BDNF Genotype. Frontiers in Human Neuroscience, 2016, 10, 327.	2.0	27
39	Consensus Parameter: Research Methodologies to Evaluate Neurodevelopmental Effects of Pubertal Suppression in Transgender Youth. Transgender Health, 2020, 5, 246-257.	2.5	22
40	Sex differences in the association between prenatal exposure to maternal obesity and hippocampal volume in children. Brain and Behavior, 2020, 10, e01522.	2.2	19
41	Association of Outdoor Ambient Fine Particulate Matter With Intracellular White Matter Microstructural Properties Among Children. JAMA Network Open, 2021, 4, e2138300.	5.9	18
42	Prefrontal Cortex and Amygdala Subregion Morphology Are Associated With Obesity and Dietary Self-control in Children and Adolescents. Frontiers in Human Neuroscience, 2020, 14, 563415.	2.0	16
43	Best Practices in Structural Neuroimaging of Neurodevelopmental Disorders. Neuropsychology Review, 2022, 32, 400-418.	4.9	14
44	Neurotoxicants, the Developing Brain, and Mental Health. Biological Psychiatry Global Open Science, 2022, 2, 223-232.	2.2	14
45	Imputation Strategy for Reliable Regional MRI Morphological Measurements. Neuroinformatics, 2020, 18, 59-70.	2.8	13
46	Analysis of Early-Life Growth and Age at Pubertal Onset in US Children. JAMA Network Open, 2022, 5, e2146873.	5.9	13
47	A Comprehensive Overview of the Physical Health of the Adolescent Brain Cognitive Development Study Cohort at Baseline. Frontiers in Pediatrics, 2021, 9, 734184.	1.9	11
48	Microstructural properties within the amygdala and affiliated white matter tracts across adolescence. NeuroImage, 2021, 243, 118489.	4.2	10
49	Restructuring of amygdala subregion apportion across adolescence. Developmental Cognitive Neuroscience, 2021, 48, 100883.	4.0	8
50	White Matter Microstructural Differences in Youth With Classical Congenital Adrenal Hyperplasia. Journal of Clinical Endocrinology and Metabolism, 2021, 106, 3196-3212.	3.6	8
51	Risk of lead exposure, subcortical brain structure, and cognition in a large cohort of 9- to 10-year-old children. PLoS ONE, 2021, 16, e0258469.	2.5	8
52	Understanding the role of aerobic fitness, spatial learning, and hippocampal subfields in adolescent males. Scientific Reports, 2021, 11, 9311.	3.3	7
53	Brain morphometric differences in youth with and without perinatally-acquired HIV: A cross-sectional study. NeuroImage: Clinical, 2020, 26, 102246.	2.7	5
54	Developmental Changes in Food Perception and Preference. Frontiers in Psychology, 2021, 12, 654200.	2.1	3

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55	Associations between testosterone, estradiol, and androgen receptor genotype with amygdala subregions in adolescents. Psychoneuroendocrinology, 2022, 137, 105604.	2.7	3
56	Congenital Adrenal Hyperplasia and Brain Health: A Systematic Review of Structural, Functional, and Diffusion Magnetic Resonance Imaging (MRI) Investigations. Journal of Child Neurology, 2022, 37, 758-783.	1.4	3
57	Child physical activity as a modifier of the relationship between prenatal exposure to maternal overweight/obesity and neurocognitive outcomes in offspring. International Journal of Obesity, 2021, 45, 1310-1320.	3.4	2
58	Developmental Changes in Food Perception and Preference. Journal of the Endocrine Society, 2021, 5, A7-A8.	0.2	0
59	Editorial: Understanding the Link Between the Developing Brain and Behavior in Adolescents. Frontiers in Human Neuroscience, 2021, 15, 663454.	2.0	0
60	Gray Matter Structures Mediate Associations between Neighborhood Socioeconomic Status and Cognition in Adolescents: Application of a Mediation Analysis Method. ISEE Conference Abstracts, 2021, 2021, .	0.0	0