

# John W Vanmeter

## List of Publications by Year in descending order

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Version: 2024-02-01

127  
papers

11,213  
citations

41323

49  
h-index

32815

100  
g-index

136  
all docs

136  
docs citations

136  
times ranked

14381  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unbiased average age-appropriate atlases for pediatric studies. <i>NeuroImage</i> , 2011, 54, 313-327.	2.1	1,825
2	Abnormal processing of visual motion in dyslexia revealed by functional brain imaging. <i>Nature</i> , 1996, 382, 66-69.	13.7	627
3	The NIH MRI study of normal brain development. <i>NeuroImage</i> , 2006, 30, 184-202.	2.1	466
4	Hierarchical Organization of the Human Auditory Cortex Revealed by Functional Magnetic Resonance Imaging. <i>Journal of Cognitive Neuroscience</i> , 2001, 13, 1-7.	1.1	408
5	Total and Regional Brain Volumes in a Population-Based Normative Sample from 4 to 18 Years: The NIH MRI Study of Normal Brain Development. <i>Cerebral Cortex</i> , 2012, 22, 1-12.	1.6	322
6	Preserved Functional Specialization for Spatial Processing in the Middle Occipital Gyrus of the Early Blind. <i>Neuron</i> , 2010, 68, 138-148.	3.8	256
7	Categorization Training Results in Shape- and Category-Selective Human Neural Plasticity. <i>Neuron</i> , 2007, 53, 891-903.	3.8	255
8	Trajectories of cortical thickness maturation in normal brain development – The importance of quality control procedures. <i>NeuroImage</i> , 2016, 125, 267-279.	2.1	251
9	Mediation of the Relationship Between Callous-Unemotional Traits and Proactive Aggression by Amygdala Response to Fear Among Children With Conduct Problems. <i>JAMA Psychiatry</i> , 2014, 71, 627.	6.0	233
10	Impairments in facial affect recognition associated with autism spectrum disorders: A meta-analysis. <i>Development and Psychopathology</i> , 2014, 26, 933-945.	1.4	224
11	Cholinergic stimulation alters performance and task-specific regional cerebral blood flow during working memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 6512-6516.	3.3	221
12	Dysmaturation of the default mode network in autism. <i>Human Brain Mapping</i> , 2014, 35, 1284-1296.	1.9	219
13	The NIH MRI study of normal brain development: Performance of a population based sample of healthy children aged 6 to 18 years on a neuropsychological battery. <i>Journal of the International Neuropsychological Society</i> , 2007, 13, 729-46.	1.2	213
14	Developmental Changes in Organization of Structural Brain Networks. <i>Cerebral Cortex</i> , 2013, 23, 2072-2085.	1.6	203
15	The NIH MRI study of normal brain development (Objective-2): Newborns, infants, toddlers, and preschoolers. <i>NeuroImage</i> , 2007, 35, 308-325.	2.1	177
16	Neural and cognitive characteristics of extraordinary altruists. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15036-15041.	3.3	161
17	Evaluation of a Shape-Based Model of Human Face Discrimination Using fMRI and Behavioral Techniques. <i>Neuron</i> , 2006, 50, 159-172.	3.8	160
18	Positive association between cognitive ability and cortical thickness in a representative US sample of healthy 6 to 18-year-olds. <i>Intelligence</i> , 2009, 37, 145-155.	1.6	159

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19	Testosterone-Related Cortical Maturation Across Childhood and Adolescence. <i>Cerebral Cortex</i> , 2013, 23, 1424-1432.	1.6	157
20	Cortical thickness correlates of specific cognitive performance accounted for by the general factor of intelligence in healthy children aged 6 to 18. <i>NeuroImage</i> , 2011, 55, 1443-1453.	2.1	152
21	Attention-related modulation of activity in primary and secondary auditory cortex. <i>NeuroReport</i> , 1997, 8, 2511-2516.	0.6	149
22	Anxious/Depressed Symptoms are Linked to Right Ventromedial Prefrontal Cortical Thickness Maturation in Healthy Children and Young Adults. <i>Cerebral Cortex</i> , 2014, 24, 2941-2950.	1.6	149
23	Multiple Stages of Auditory Speech Perception Reflected in Event-Related fMRI. <i>Cerebral Cortex</i> , 2007, 17, 2251-2257.	1.6	145
24	The fMRI success rate of children and adolescents: Typical development, epilepsy, attention deficit/hyperactivity disorder, and autism spectrum disorders. <i>Human Brain Mapping</i> , 2009, 30, 3426-3435.	1.9	140
25	Attention to single letters activates left extrastriate cortex. <i>NeuroImage</i> , 2004, 21, 829-839.	2.1	139
26	Cortical Thickness Maturation and Duration of Music Training: Health-Promoting Activities Shape Brain Development. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2014, 53, 1153-1161.e2.	0.3	132
27	The effect of template choice on morphometric analysis of pediatric brain data. <i>NeuroImage</i> , 2009, 45, 769-777.	2.1	131
28	Cognitive Effects of Cancer and Its Treatments at the Intersection of Aging: What Do We Know; What Do We Need to Know?. <i>Seminars in Oncology</i> , 2013, 40, 709-725.	0.8	119
29	Beyond age and gender: Relationships between cortical and subcortical brain volume and cognitive-motor abilities in school-age children. <i>NeuroImage</i> , 2011, 54, 3093-3100.	2.1	115
30	Cancer-Related Cognitive Outcomes Among Older Breast Cancer Survivors in the Thinking and Living With Cancer Study. <i>Journal of Clinical Oncology</i> , 2018, 36, 3211-3222.	0.8	112
31	Functional Connectivity of the Inferior Frontal Cortex Changes with Age in Children with Autism Spectrum Disorders: A fcMRI Study of Response Inhibition. <i>Cerebral Cortex</i> , 2009, 19, 1787-1794.	1.6	107
32	Multisensory Integration of Sounds and Vibrotactile Stimuli in Processing Streams for "What" and "Where". <i>Journal of Neuroscience</i> , 2009, 29, 10950-10960.	1.7	103
33	Increased Brain White Matter Axial Diffusivity Associated with Fatigue, Pain and Hyperalgesia in Gulf War Illness. <i>PLoS ONE</i> , 2013, 8, e58493.	1.1	94
34	Associations Between IQ, Total and Regional Brain Volumes, and Demography in a Large Normative Sample of Healthy Children and Adolescents. <i>Developmental Neuropsychology</i> , 2010, 35, 296-317.	1.0	93
35	Regional differences in the developmental trajectory of lateralization of the language network. <i>Human Brain Mapping</i> , 2014, 35, 270-284.	1.9	90
36	Prediction of brain maturity based on cortical thickness at different spatial resolutions. <i>NeuroImage</i> , 2015, 111, 350-359.	2.1	90

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37	The Visual Deficit Theory of Developmental Dyslexia. <i>NeuroImage</i> , 1996, 4, S108-S117.	2.1	89
38	Changes in Resting State Effective Connectivity in the Motor Network Following Rehabilitation of Upper Extremity Poststroke Paresis. <i>Topics in Stroke Rehabilitation</i> , 2009, 16, 270-281.	1.0	89
39	Right Anterior Cingulate Cortical Thickness and Bilateral Striatal Volume Correlate with Child Behavior Checklist Aggressive Behavior Scores in Healthy Children. <i>Biological Psychiatry</i> , 2011, 70, 283-290.	0.7	86
40	Functional anatomy of listening and reading comprehension during development. <i>Brain and Language</i> , 2010, 114, 115-125.	0.8	85
41	Decreased Regional Cortical Thickness and Thinning Rate Are Associated With Inattention Symptoms in Healthy Children. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2012, 51, 18-27.e2.	0.3	82
42	Event-related fast optical signal in a rapid object recognition task: Improving detection by the independent component analysis. <i>Brain Research</i> , 2008, 1236, 145-158.	1.1	79
43	Biomarkers in the Age of Omics: Time for a Systems Biology Approach. <i>OMICS A Journal of Integrative Biology</i> , 2011, 15, 105-112.	1.0	79
44	$T_2$ relaxometry of normal pediatric brain development. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 29, 258-267.	1.9	76
45	Lying about facial recognition: An fMRI study. <i>Brain and Cognition</i> , 2009, 69, 382-390.	0.8	74
46	Exercise Challenge in Gulf War Illness Reveals Two Subgroups with Altered Brain Structure and Function. <i>PLoS ONE</i> , 2013, 8, e63903.	1.1	70
47	Segregation of Vowels and Consonants in Human Auditory Cortex: Evidence for Distributed Hierarchical Organization. <i>Frontiers in Psychology</i> , 2010, 1, 232.	1.1	56
48	Imaging structural covariance in the development of intelligence. <i>NeuroImage</i> , 2017, 144, 227-240.	2.1	56
49	A prospective study of cognitive fluency and originality in children exposed in utero to carbamazepine, lamotrigine, or valproate monotherapy. <i>Epilepsy and Behavior</i> , 2009, 16, 609-616.	0.9	55
50	$^1\text{H}$ MRS identifies symptomatic and asymptomatic subjects with partial ornithine transcarbamylase deficiency. <i>Molecular Genetics and Metabolism</i> , 2008, 95, 21-30.	0.5	54
51	Strength of default mode resting-state connectivity relates to white matter integrity in children. <i>Developmental Science</i> , 2011, 14, 738-751.	1.3	53
52	Parametric Analysis of Functional Neuroimages: Application to a Variable-Rate Motor Task. <i>NeuroImage</i> , 1995, 2, 273-283.	2.1	50
53	Subpatterns of language network reorganization in pediatric localization related epilepsy: A multisite study. <i>Human Brain Mapping</i> , 2011, 32, 784-799.	1.9	49
54	Lovastatin regulates brain spontaneous low-frequency brain activity in Neurofibromatosis type 1. <i>Neuroscience Letters</i> , 2012, 515, 28-33.	1.0	48

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55	In vivo magnetic resonance volumetric and spectroscopic analysis of mouse prostate Cancer Models. <i>Prostate</i> , 2006, 66, 708-717.	1.2	47
56	The influences of task difficulty and response correctness on neural systems supporting fluid reasoning. <i>Cognitive Neurodynamics</i> , 2007, 1, 71-84.	2.3	46
57	Contrast-Enhanced In Vivo Imaging of Breast and Prostate Cancer Cells by MRI. <i>Cell Cycle</i> , 2006, 5, 113-119.	1.3	44
58	Trajectories of cortical surface area and cortical volume maturation in normal brain development. <i>Data in Brief</i> , 2015, 5, 929-938.	0.5	43
59	Cortical regions involved in visual texture perception: a fMRI study. <i>Cognitive Brain Research</i> , 1998, 7, 111-118.	3.3	41
60	Neural Mechanisms Underlying Learning Following Semantic Mediation Treatment in a Case of Phonologic Alexia. <i>Brain Imaging and Behavior</i> , 2008, 2, 147-162.	1.1	41
61	Characterizing "effibrog" Subjective appraisal, objective performance, and task-related brain activity during a working memory task. <i>NeuroImage: Clinical</i> , 2016, 11, 173-180.	1.4	39
62	Age-related volumetric change of limbic structures and subclinical anxious/depressed symptomatology in typically developing children and adolescents. <i>Biological Psychology</i> , 2017, 124, 133-140.	1.1	38
63	Callous-unemotional traits drive reduced white-matter integrity in youths with conduct problems. <i>Psychological Medicine</i> , 2015, 45, 3033-3046.	2.7	37
64	Diffusion Tensor Imaging Detects Areas of Abnormal White Matter Microstructure in Patients with Partial Ornithine Transcarbamylase Deficiency. <i>American Journal of Neuroradiology</i> , 2010, 31, 1719-1723.	1.2	36
65	Functional connectivity in the prefrontal cortex measured by near-infrared spectroscopy during ultrarapid object recognition. <i>Journal of Biomedical Optics</i> , 2011, 16, 016008.	1.4	36
66	Negative Associations between Corpus Callosum Midsagittal Area and IQ in a Representative Sample of Healthy Children and Adolescents. <i>PLoS ONE</i> , 2011, 6, e19698.	1.1	35
67	Positron Emission Tomography (PET) and Single Photon Emission Computed Tomography (SPECT): Clinical Applications. <i>Journal of Neuro-Ophthalmology</i> , 2003, 23, 34-41.	0.4	32
68	A framework for the analysis of phantom data in multicenter diffusion tensor imaging studies. <i>Human Brain Mapping</i> , 2013, 34, 2439-2454.	1.9	32
69	Evidence for a cerebral cortical thickness network anti-correlated with amygdalar volume in healthy youths: Implications for the neural substrates of emotion regulation. <i>NeuroImage</i> , 2013, 71, 42-49.	2.1	32
70	The diffusion tensor imaging (DTI) component of the NIH MRI study of normal brain development (PedsDTI). <i>NeuroImage</i> , 2016, 124, 1125-1130.	2.1	32
71	"Seeing" electroencephalogram through the skull: imaging prefrontal cortex with fast optical signal. <i>Journal of Biomedical Optics</i> , 2010, 15, 061702.	1.4	31
72	Anxious/depressed symptoms are related to microstructural maturation of white matter in typically developing youths. <i>Development and Psychopathology</i> , 2017, 29, 751-758.	1.4	30

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73	Extraordinary Altruists Exhibit Enhanced Self-Other Overlap in Neural Responses to Distress. <i>Psychological Science</i> , 2018, 29, 1631-1641.	1.8	29
74	Effect of dopamine transporter genotype on caudate volume in childhood ADHD and controls. <i>American Journal of Medical Genetics Part B: Neuropsychiatric Genetics</i> , 2011, 156, 28-35.	1.1	28
75	Auditory representation of learned sound sequences in motor regions of the macaque brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15242-15252.	3.3	28
76	Diffusion Tensor Imaging in Arginase Deficiency Reveals Damage to Corticospinal Tracts. <i>Pediatric Neurology</i> , 2010, 42, 49-52.	1.0	27
77	Callous and uncaring traits are associated with reductions in amygdala volume among youths with varying levels of conduct problems. <i>Psychological Medicine</i> , 2019, 49, 1449-1458.	2.7	27
78	Brainhack: Developing a culture of open, inclusive, community-driven neuroscience. <i>Neuron</i> , 2021, 109, 1769-1775.	3.8	27
79	Four-Year Longitudinal Performance of a Population-Based Sample of Healthy Children on a Neuropsychological Battery: The NIH MRI Study of Normal Brain Development. <i>Journal of the International Neuropsychological Society</i> , 2012, 18, 179-190.	1.2	26
80	Altered neural activation in ornithine transcarbamylase deficiency during executive cognition: An fMRI study. <i>Human Brain Mapping</i> , 2013, 34, 753-761.	1.9	26
81	Investigating neurological deficits in carriers and affected patients with ornithine transcarbamylase deficiency. <i>Molecular Genetics and Metabolism</i> , 2014, 113, 136-141.	0.5	25
82	Neurodevelopmental Precursors and Consequences of Substance Use during Adolescence: Promises and Pitfalls of Longitudinal Neuroimaging Strategies. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 296.	1.0	25
83	Prefrontal lactate predicts exercise-induced cognitive dysfunction in Gulf War Illness. <i>American Journal of Translational Research (discontinued)</i> , 2013, 5, 212-23.	0.0	22
84	Executive dysfunction is associated with an altered executive control network in pediatric temporal lobe epilepsy. <i>Epilepsy and Behavior</i> , 2018, 86, 145-152.	0.9	21
85	Altered cortical structure and psychiatric symptom risk in adolescents exposed to maternal stress in utero: A retrospective investigation. <i>Behavioural Brain Research</i> , 2019, 375, 112145.	1.2	21
86	Externalizing behavior severity in youths with callous-unemotional traits corresponds to patterns of amygdala activity and connectivity during judgments of causing fear. <i>Development and Psychopathology</i> , 2018, 30, 191-201.	1.4	20
87	1H MRS allows brain phenotype differentiation in sisters with late onset ornithine transcarbamylase deficiency (OTCD) and discordant clinical presentations. <i>Molecular Genetics and Metabolism</i> , 2008, 94, 52-60.	0.5	19
88	Increased similarity of neural responses to experienced and empathic distress in costly altruism. <i>Scientific Reports</i> , 2019, 9, 10774.	1.6	19
89	Urea cycle defects and hyperammonemia: effects on functional imaging. <i>Metabolic Brain Disease</i> , 2013, 28, 269-275.	1.4	18
90	Preclinical Magnetic Resonance Imaging and Systems Biology in Cancer Research. <i>American Journal of Pathology</i> , 2013, 182, 312-318.	1.9	18

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91	Neural Efficiency in Expert Cognitive-Motor Performers During Affective Challenge. <i>Journal of Motor Behavior</i> , 2016, 48, 573-588.	0.5	17
92	Default mode network deactivation in pediatric temporal lobe epilepsy: Relationship to a working memory task and executive function tests. <i>Epilepsy and Behavior</i> , 2019, 94, 124-130.	0.9	17
93	Analysis of the contribution of experimental bias, experimental noise, and inter-subject biological variability on the assessment of developmental trajectories in diffusion MRI studies of the brain. <i>NeuroImage</i> , 2015, 109, 480-492.	2.1	16
94	Dietary Long-Chain Omega-3 Fatty Acids Are Related to Impulse Control and Anterior Cingulate Function in Adolescents. <i>Frontiers in Neuroscience</i> , 2018, 12, 1012.	1.4	16
95	Striate cortex in humans demonstrates the relationship between activation and variations in visual form. <i>Experimental Brain Research</i> , 2000, 130, 221-226.	0.7	15
96	Advances in urea cycle neuroimaging: Proceedings from the 4th International Symposium on urea cycle disorders, Barcelona, Spain, September 2013. <i>Molecular Genetics and Metabolism</i> , 2014, 113, 118-126.	0.5	15
97	Amygdala-midbrain connectivity indicates a role for the mammalian parental care system in human altruism. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20171731.	1.2	14
98	Exercise alters cerebellar and cortical activity related to working memory in phenotypes of Gulf War Illness. <i>Brain Communications</i> , 2020, 2, fcz039.	1.5	11
99	Alterations of Brain Metabolites in Adults With HIV. <i>Neurology</i> , 2021, 97, e1085-e1096.	1.5	11
100	Anterior-Posterior Connectivity within the Default Mode Network Increases During Maturation. <i>International Journal of Medical and Biological Frontiers</i> , 2015, 21, 207-218.	0.2	11
101	Exercise alters brain activation in Gulf War Illness and Myalgic Encephalomyelitis/Chronic Fatigue Syndrome. <i>Brain Communications</i> , 2020, 2, fcaa070.	1.5	10
102	The low glutamate diet improves cognitive functioning in veterans with Gulf War Illness and resting-state EEG potentially predicts response. <i>Nutritional Neuroscience</i> , 2022, 25, 2247-2258.	1.5	10
103	Mapping neural activity patterns to contextualized fearful facial expressions onto callous-unemotional (CU) traits: intersubject representational similarity analysis reveals less variation among high-CU adolescents. <i>Personality Neuroscience</i> , 2020, 3, e12.	1.3	10
104	Activation in bed nucleus of the stria terminalis (BNST) corresponds to everyday helping. <i>Cortex</i> , 2020, 127, 67-77.	1.1	9
105	MRI brain templates of the male Yucatan minipig. <i>NeuroImage</i> , 2021, 235, 118015.	2.1	9
106	Comparison of Cerebral Volume in Children Aged 18-22 and 36-47 Months Born Preterm and Term. <i>Journal of Child Neurology</i> , 2012, 27, 172-177.	0.7	8
107	Functional Magnetic resonance Imaging Clinical Trial of a Dual-Processing Treatment Protocol for Substance-Dependent Adults. <i>Research on Social Work Practice</i> , 2014, 24, 659-669.	1.1	7
108	Exercise challenge alters Default Mode Network dynamics in Gulf War Illness. <i>BMC Neuroscience</i> , 2019, 20, 7.	0.8	7

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109	Relationship between whole blood omega-3 fatty acid levels and dorsal cingulate gray matter volume: Sex differences and implications for impulse control. <i>Nutritional Neuroscience</i> , 2020, 23, 505-515.	1.5	7
110	A new template to study callosal growth shows specific growth in anterior and posterior regions of the corpus callosum in early childhood. <i>European Journal of Neuroscience</i> , 2015, 42, 1675-1684.	1.2	6
111	Reduced Multivoxel Pattern Similarity of Vicarious Neural Pain Responses in Psychopathy. <i>Journal of Personality Disorders</i> , 2020, 34, 628-649.	0.8	6
112	MRI for modeling of liver and skin respiratory motion. <i>International Congress Series</i> , 2004, 1268, 747-752.	0.2	5
113	Reduced Functional Connectivity of Default Mode and Set-Maintenance Networks in Ornithine Transcarbamylase Deficiency. <i>PLoS ONE</i> , 2015, 10, e0129595.	1.1	4
114	Connectivity differences between Gulf War Illness (GWI) phenotypes during a test of attention. <i>PLoS ONE</i> , 2019, 14, e0226481.	1.1	4
115	Intersubject Analysis of fMRI Data Using Spatial Normalization. <i>Advances in Experimental Medicine and Biology</i> , 1997, 413, 235-240.	0.8	4
116	Development of a Minipig Model of BINT From Blast Exposure Using a Repeatable Mobile Shock Expansion Tube. <i>Military Medicine</i> , 2021, , .	0.4	4
117	Clinical Trial of an Innovative Dual-Processing Group Therapy Relapse Prevention Protocol Conducted in a Community-Based Setting. <i>Journal of Groups in Addiction and Recovery</i> , 2013, 8, 240-261.	0.4	3
118	Task-based changes in proton MR spectroscopy signal during configural working memory in human medial temporal lobe. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 47, 682-691.	1.9	3
119	Comparative Effects of Repetitive Odor Identification and Odor Memory Tasks on Olfactory Engagement in Older Populations – A Pilot fMRI Study. <i>Neuropsychiatric Disease and Treatment</i> , 2021, Volume 17, 1279-1288.	1.0	3
120	Effects of OPRM1 and DRD2 on brain structure in drug-naïve adolescents: Genetic and neural vulnerabilities to substance use. <i>Psychopharmacology</i> , 2021, 239, 141.	1.5	3
121	An Examination Of Cognitive-Motor Ability And Structural Brain Changes In Typically-Developing Children. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 658.	0.2	1
122	A Pilot Study of Reduced Olfactory Bulb Volume as a Marker of PTSD in Childhood Trauma-Exposed Adult HIV-Infected Patients. <i>Journal of Traumatic Stress</i> , 2017, 30, 537-544.	1.0	1
123	[ICP146]: TASK-FREE MAGNETIC RESONANCE BRAIN IMAGING DISTINGUISHES ALZHEIMER'S DISEASE FROM HIV-DISEASE VIA SUPPORT VECTOR MACHINE CLASSIFICATION. <i>Alzheimer's and Dementia</i> , 2017, 13, P111.	0.4	0
124	[P1373]: TASK-FREE MAGNETIC RESONANCE BRAIN IMAGING DISTINGUISHES ALZHEIMER'S DISEASE FROM HIV-DISEASE VIA SUPPORT VECTOR MACHINE CLASSIFICATION. <i>Alzheimer's and Dementia</i> , 2017, 13, P404.	0.4	0
125	Earlier Alcohol Use and Lower Neuropsychological Performance in Brazilian Adolescence: Is the School Environment Related to This?. <i>Substance Use and Misuse</i> , 2019, 54, 426-436.	0.7	0
126	The moderating role of socioeconomic status on level of responsibility, executive functioning, and cortical thinning during adolescence. <i>Developmental Psychobiology</i> , 2021, 63, 291-304.	0.9	0



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127	41224 REDUCED FRONTOSTRIATAL FUNCTIONAL CONNECTIVITY IN 41- TO 70-YEAR-OLD ADULTS WITH HIV. Journal of Clinical and Translational Science, 2021, 5, 13-13.	0.3	0