

Kosha Ruparel

List of Publications by Year in descending order

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Version: 2024-02-01

133
papers

15,648
citations

26630

56
h-index

21540

114
g-index

152
all docs

152
docs citations

152
times ranked

16450
citing authors

#	ARTICLE	IF	CITATIONS
1	An improved framework for confound regression and filtering for control of motion artifact in the preprocessing of resting-state functional connectivity data. <i>NeuroImage</i> , 2013, 64, 240-256.	4.2	1,540
2	Impact of in-scanner head motion on multiple measures of functional connectivity: Relevance for studies of neurodevelopment in youth. <i>NeuroImage</i> , 2012, 60, 623-632.	4.2	1,037
3	Sex differences in the structural connectome of the human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 823-828.	7.1	925
4	Benchmarking of participant-level confound regression strategies for the control of motion artifact in studies of functional connectivity. <i>NeuroImage</i> , 2017, 154, 174-187.	4.2	842
5	Harmonization of multi-site diffusion tensor imaging data. <i>NeuroImage</i> , 2017, 161, 149-170.	4.2	731
6	Neuroimaging of the Philadelphia Neurodevelopmental Cohort. <i>NeuroImage</i> , 2014, 86, 544-553.	4.2	452
7	Baby Schema in Infant Faces Induces Cuteness Perception and Motivation for Caretaking in Adults. <i>Ethology</i> , 2009, 115, 257-263.	1.1	356
8	Linked dimensions of psychopathology and connectivity in functional brain networks. <i>Nature Communications</i> , 2018, 9, 3003.	12.8	323
9	Modular Segregation of Structural Brain Networks Supports the Development of Executive Function in Youth. <i>Current Biology</i> , 2017, 27, 1561-1572.e8.	3.9	305
10	Linked Sex Differences in Cognition and Functional Connectivity in Youth. <i>Cerebral Cortex</i> , 2015, 25, 2383-2394.	2.9	302
11	Development of structure–function coupling in human brain networks during youth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 771-778.	7.1	296
12	Quantitative assessment of structural image quality. <i>NeuroImage</i> , 2018, 169, 407-418.	4.2	291
13	Baby schema modulates the brain reward system in nulliparous women. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 9115-9119.	7.1	268
14	The Philadelphia Neurodevelopmental Cohort: A publicly available resource for the study of normal and abnormal brain development in youth. <i>NeuroImage</i> , 2016, 124, 1115-1119.	4.2	268
15	Age-Related Effects and Sex Differences in Gray Matter Density, Volume, Mass, and Cortical Thickness from Childhood to Young Adulthood. <i>Journal of Neuroscience</i> , 2017, 37, 5065-5073.	3.6	235
16	Neural substrates for functionally discriminating self-face from personally familiar faces. <i>Human Brain Mapping</i> , 2006, 27, 91-98.	3.6	229
17	Functional Maturation of the Executive System during Adolescence. <i>Journal of Neuroscience</i> , 2013, 33, 16249-16261.	3.6	225
18	Heterogeneous impact of motion on fundamental patterns of developmental changes in functional connectivity during youth. <i>NeuroImage</i> , 2013, 83, 45-57.	4.2	223

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19	Limbic Activation Associated With Misidentification of Fearful Faces and Flat Affect in Schizophrenia. Archives of General Psychiatry, 2007, 64, 1356.	12.3	213
20	Common and Dissociable Dysfunction of the Reward System in Bipolar and Unipolar Depression. Neuropsychopharmacology, 2015, 40, 2258-2268.	5.4	210
21	The Philadelphia Neurodevelopmental Cohort: constructing a deep phenotyping collaborative. Journal of Child Psychology and Psychiatry and Allied Disciplines, 2015, 56, 1356-1369.	5.2	208
22	Neurocognitive Growth Charting in Psychosis Spectrum Youths. JAMA Psychiatry, 2014, 71, 366.	11.0	206
23	Large-Scale Brain Network Coupling Predicts Acute Nicotine Abstinence Effects on Craving and Cognitive Function. JAMA Psychiatry, 2014, 71, 523.	11.0	202
24	The impact of quality assurance assessment on diffusion tensor imaging outcomes in a large-scale population-based cohort. NeuroImage, 2016, 125, 903-919.	4.2	202
25	Acute Effect of Methadone Maintenance Dose on Brain fMRI Response to Heroin-Related Cues. American Journal of Psychiatry, 2008, 165, 390-394.	7.2	200
26	Common and Dissociable Mechanisms of Executive System Dysfunction Across Psychiatric Disorders in Youth. American Journal of Psychiatry, 2016, 173, 517-526.	7.2	191
27	The psychosis spectrum in a young U.S. community sample: findings from the Philadelphia Neurodevelopmental Cohort. World Psychiatry, 2014, 13, 296-305.	10.4	178
28	Impact of puberty on the evolution of cerebral perfusion during adolescence. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8643-8648.	7.1	169
29	Amotivation in Schizophrenia: Integrated Assessment With Behavioral, Clinical, and Imaging Measures. Schizophrenia Bulletin, 2014, 40, 1328-1337.	4.3	163
30	Burden of Environmental Adversity Associated With Psychopathology, Maturation, and Brain Behavior Parameters in Youths. JAMA Psychiatry, 2019, 76, 966.	11.0	157
31	Common Dimensional Reward Deficits Across Mood and Psychotic Disorders: A Connectome-Wide Association Study. American Journal of Psychiatry, 2017, 174, 657-666.	7.2	147
32	Developmental increases in white matter network controllability support a growing diversity of brain dynamics. Nature Communications, 2017, 8, 1252.	12.8	140
33	Human Mu Opioid Receptor (<i>OPRM1</i> A118G) polymorphism is associated with brain mu-opioid receptor binding potential in smokers. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9268-9273.	7.1	130
34	Being right is its own reward: Load and performance related ventral striatum activation to correct responses during a working memory task in youth. NeuroImage, 2012, 61, 723-729.	4.2	126
35	Large-scale mapping of cortical alterations in 22q11.2 deletion syndrome: Convergence with idiopathic psychosis and effects of deletion size. Molecular Psychiatry, 2020, 25, 1822-1834.	7.9	122
36	Establishing a link between sex-related differences in the structural connectome and behaviour. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150111.	4.0	121

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37	Effects of the $\alpha 2$ Partial Agonist Varenicline on Brain Activity and Working Memory in Abstinent Smokers. <i>Biological Psychiatry</i> , 2010, 67, 715-721.	1.3	119
38	Structural Brain Abnormalities in Youth With Psychosis Spectrum Symptoms. <i>JAMA Psychiatry</i> , 2016, 73, 515.	11.0	116
39	Resting quantitative cerebral blood flow in schizophrenia measured by pulsed arterial spin labeling perfusion MRI. <i>Psychiatry Research - Neuroimaging</i> , 2011, 194, 64-72.	1.8	106
40	Topologically Dissociable Patterns of Development of the Human Cerebral Cortex. <i>Journal of Neuroscience</i> , 2015, 35, 599-609.	3.6	103
41	The impact of in-scanner head motion on structural connectivity derived from diffusion MRI. <i>NeuroImage</i> , 2018, 173, 275-286.	4.2	102
42	Functional Neuroimaging Abnormalities in Youth With Psychosis Spectrum Symptoms. <i>JAMA Psychiatry</i> , 2015, 72, 456.	11.0	100
43	Reduced prefrontal and temporal processing and recall of high α -sensation value ads. <i>NeuroImage</i> , 2009, 46, 219-225.	4.2	97
44	Persistence of psychosis spectrum symptoms in the Philadelphia Neurodevelopmental Cohort: a prospective two-year follow-up. <i>World Psychiatry</i> , 2017, 16, 62-76.	10.4	97
45	Comorbidity of Physical and Mental Disorders in the Neurodevelopmental Genomics Cohort Study. <i>Pediatrics</i> , 2015, 135, e927-e938.	2.1	96
46	Temporal sequences of brain activity at rest are constrained by white matter structure and modulated by cognitive demands. <i>Communications Biology</i> , 2020, 3, 261.	4.4	88
47	Working Memory-Related Neural Activity Predicts Future Smoking Relapse. <i>Neuropsychopharmacology</i> , 2015, 40, 1311-1320.	5.4	85
48	Sex Differences in the Effect of Puberty on Hippocampal Morphology. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2014, 53, 341-350.e1.	0.5	83
49	Within-individual variability in neurocognitive performance: Age- and sex-related differences in children and youths from ages 8 to 21.. <i>Neuropsychology</i> , 2014, 28, 506-518.	1.3	82
50	Elevated Amygdala Perfusion Mediates Developmental Sex Differences in Trait Anxiety. <i>Biological Psychiatry</i> , 2016, 80, 775-785.	1.3	82
51	Interactive effects of estrogen and serotonin on brain activation during working memory and affective processing in menopausal women. <i>Psychoneuroendocrinology</i> , 2012, 37, 372-382.	2.7	80
52	Evidence for Dissociable Linkage of Dimensions of Psychopathology to Brain Structure in Youths. <i>American Journal of Psychiatry</i> , 2019, 176, 1000-1009.	7.2	77
53	Associations between Neighborhood SES and Functional Brain Network Development. <i>Cerebral Cortex</i> , 2020, 30, 1-19.	2.9	74
54	Content Matters: Neuroimaging Investigation of Brain and Behavioral Impact of Televised Anti-Tobacco Public Service Announcements. <i>Journal of Neuroscience</i> , 2013, 33, 7420-7427.	3.6	73

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55	Neuroimaging predictors of cognitive performance across a standardized neurocognitive battery.. <i>Neuropsychology</i> , 2014, 28, 161-176.	1.3	68
56	An Investigation of the Relationship Between Activation of a Social Cognitive Neural Network and Social Functioning. <i>Schizophrenia Bulletin</i> , 2007, 34, 688-697.	4.3	67
57	Changes in neural responsivity to highly palatable foods following rouxâ€™s gastric bypass, sleeve gastrectomy, or weight stability: An fMRI study. <i>Obesity</i> , 2016, 24, 1054-1060.	3.0	66
58	Aberrant Cortical Morphometry in the 22q11.2 Deletion Syndrome. <i>Biological Psychiatry</i> , 2015, 78, 135-143.	1.3	61
59	Brain state expression and transitions are related to complex executive cognition in normative neurodevelopment. <i>NeuroImage</i> , 2018, 166, 293-306.	4.2	61
60	Longitudinal Development of Brain Iron Is Linked to Cognition in Youth. <i>Journal of Neuroscience</i> , 2020, 40, 1810-1818.	3.6	60
61	Diminished Cortical Thickness Is Associated with Impulsive Choice in Adolescence. <i>Journal of Neuroscience</i> , 2018, 38, 2471-2481.	3.6	55
62	Mapping Subcortical Brain Alterations in 22q11.2 Deletion Syndrome: Effects of Deletion Size and Convergence With Idiopathic Neuropsychiatric Illness. <i>American Journal of Psychiatry</i> , 2020, 177, 589-600.	7.2	55
63	Validation of the Cognition Test Battery for Spaceflight in a Sample of Highly Educated Adults. <i>Aerospace Medicine and Human Performance</i> , 2017, 88, 937-946.	0.4	54
64	Association of Enhanced Limbic Response to Threat With Decreased Cortical Facial Recognition Memory Response in Schizophrenia. <i>American Journal of Psychiatry</i> , 2010, 167, 418-426.	7.2	53
65	White matter organization and neurocognitive performance variability in schizophrenia. <i>Schizophrenia Research</i> , 2013, 143, 172-178.	2.0	53
66	Defining and validating a short form Montreal Cognitive Assessment (s-MoCA) for use in neurodegenerative disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016, 87, 1303-1310.	1.9	50
67	Altered white matter microstructure in 22q11.2 deletion syndrome: a multisite diffusion tensor imaging study. <i>Molecular Psychiatry</i> , 2020, 25, 2818-2831.	7.9	50
68	Pitfalls in brain age analyses. <i>Human Brain Mapping</i> , 2021, 42, 4092-4101.	3.6	50
69	Divergent relationship of depression severity to social reward responses among patients with bipolar versus unipolar depression. <i>Psychiatry Research - Neuroimaging</i> , 2016, 254, 18-25.	1.8	49
70	Optimization of energy state transition trajectory supports the development of executive function during youth. <i>ELife</i> , 2020, 9, .	6.0	47
71	Abnormal Modulation of Amygdala Activity in Schizophrenia in Response to Direct- and Averted-Gaze Threat-Related Facial Expressions. <i>American Journal of Psychiatry</i> , 2011, 168, 293-301.	7.2	46
72	Neurocognitive profile in psychotic versus nonpsychotic individuals with 22q11.2 deletion syndrome. <i>European Neuropsychopharmacology</i> , 2016, 26, 1610-1618.	0.7	45

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73	Abnormal Superior Temporal Connectivity During Fear Perception in Schizophrenia. Schizophrenia Bulletin, 2007, 34, 673-678.	4.3	43
74	Age-related differences in working memory deficits during nicotine withdrawal. Addiction Biology, 2014, 19, 907-917.	2.6	42
75	Extended-release naltrexone modulates brain response to drug cues in abstinent heroin-dependent patients. Addiction Biology, 2014, 19, 262-271.	2.6	42
76	White matter microstructure in schizophrenia: Associations to neurocognition and clinical symptomatology. Schizophrenia Research, 2015, 161, 42-49.	2.0	42
77	Heritability of Subcortical and Limbic Brain Volume and Shape in Multiplex-Multigenerational Families with Schizophrenia. Biological Psychiatry, 2015, 77, 137-146.	1.3	42
78	Cognitive functioning of adolescent and young adult cannabis users in the Philadelphia Neurodevelopmental Cohort.. Psychology of Addictive Behaviors, 2017, 31, 423-434.	2.1	36
79	Neurostructural Heterogeneity in Youths With Internalizing Symptoms. Biological Psychiatry, 2020, 87, 473-482.	1.3	34
80	Development of an abbreviated form of the Penn Line Orientation Test using large samples and computerized adaptive test simulation.. Psychological Assessment, 2015, 27, 955-964.	1.5	30
81	Cannabis use in youth is associated with limited alterations in brain structure. Neuropsychopharmacology, 2019, 44, 1362-1369.	5.4	30
82	Effects of copy number variations on brain structure and risk for psychiatric illness: Large-scale studies from the ENIGMA working groups on CNVs. Human Brain Mapping, 2022, 43, 300-328.	3.6	30
83	Opposing amygdala and ventral striatum connectivity during emotion identification. Brain and Cognition, 2011, 76, 353-363.	1.8	29
84	Frontolimbic responses to emotional face memory: The neural correlates of first impressions. Human Brain Mapping, 2009, 30, 3748-3758.	3.6	27
85	Temporal Lobe Volume Decrements in Psychosis Spectrum Youths. Schizophrenia Bulletin, 2017, 43, sbw112.	4.3	26
86	Accelerated cortical thinning within structural brain networks is associated with irritability in youth. Neuropsychopharmacology, 2019, 44, 2254-2262.	5.4	26
87	Effects of military service and deployment on clinical symptomatology: The role of trauma exposure and social support. Journal of Psychiatric Research, 2017, 95, 121-128.	3.1	25
88	Sex differences in estimated brain metabolism in relation to body growth through adolescence. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 524-535.	4.3	25
89	Gestational Age is Dimensionally Associated with Structural Brain Network Abnormalities Across Development. Cerebral Cortex, 2019, 29, 2102-2114.	2.9	25
90	Structural and Functional Brain Parameters Related to Cognitive Performance Across Development: Replication and Extension of the Parieto-Frontal Integration Theory in a Single Sample. Cerebral Cortex, 2021, 31, 1444-1463.	2.9	24

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91	Subject-level measurement of local cortical coupling. <i>NeuroImage</i> , 2016, 133, 88-97.	4.2	23
92	Lisdexamfetamine Effects on Executive Activation and Neurochemistry in Menopausal Women with Executive Function Difficulties. <i>Neuropsychopharmacology</i> , 2017, 42, 437-445.	5.4	23
93	Brain activity and emotional processing in smokers treated with varenicline. <i>Addiction Biology</i> , 2013, 18, 732-738.	2.6	21
94	Brain activation during eye gaze discrimination in stable schizophrenia. <i>Schizophrenia Research</i> , 2008, 99, 286-293.	2.0	20
95	Nicotine withdrawal alters neural responses to psychosocial stress. <i>Psychopharmacology</i> , 2016, 233, 2459-2467.	3.1	20
96	Impact of Tryptophan Depletion on Executive System Function during Menopause is Moderated by Childhood Adversity. <i>Neuropsychopharmacology</i> , 2017, 42, 2398-2406.	5.4	20
97	Association of abstinence-induced alterations in working memory function and COMT genotype in smokers. <i>Psychopharmacology</i> , 2013, 230, 653-662.	3.1	17
98	White matter microstructural deficits in 22q11.2 deletion syndrome. <i>Psychiatry Research - Neuroimaging</i> , 2017, 268, 35-44.	1.8	17
99	Polygraphy and Functional Magnetic Resonance Imaging in Lie Detection. <i>Journal of Clinical Psychiatry</i> , 2016, 77, 1372-1380.	2.2	17
100	Face Processing Measures of Social Cognition: A Dimensional Approach to Developmental Psychopathology. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2017, 2, 502-509.	1.5	15
101	Structural anomalies of the peripheral olfactory system in psychosis high-risk subjects. <i>Schizophrenia Research</i> , 2018, 195, 197-205.	2.0	15
102	Stability of polygenic scores across discovery genome-wide association studies. <i>Human Genetics and Genomics Advances</i> , 2022, 3, 100091.	1.7	15
103	Effects of tolcapone on working memory and brain activity in abstinent smokers: A proof-of-concept study. <i>Drug and Alcohol Dependence</i> , 2013, 133, 852-856.	3.2	14
104	Development of a computerised neurocognitive battery for children and adolescents with HIV in Botswana: study design and protocol for the Ntemoga study. <i>BMJ Open</i> , 2020, 10, e041099.	1.9	14
105	Executive function after risk-reducing salpingo-oophorectomy in BRCA1 and BRCA2 mutation carriers: does current mood and early life adversity matter?. <i>Menopause</i> , 2020, 27, 746-755.	2.0	13
106	Impact of early life adversity and tryptophan depletion on functional connectivity in menopausal women: A double-blind, placebo-controlled crossover study. <i>Psychoneuroendocrinology</i> , 2017, 84, 197-205.	2.7	12
107	μ -Opioid receptor availability in the amygdala is associated with smoking for negative affect relief. <i>Psychopharmacology</i> , 2012, 222, 701-708.	3.1	11
108	Early language measures associated with later psychosis features in 22q11.2 deletion syndrome. <i>American Journal of Medical Genetics Part B: Neuropsychiatric Genetics</i> , 2020, 183, 392-400.	1.7	10

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109	Association of anxiety phenotypes with risk of depression and suicidal ideation in community youth. <i>Depression and Anxiety</i> , 2020, 37, 851-861.	4.1	10
110	Diminished reward responsiveness is associated with lower reward network GluCEST: an ultra-high field glutamate imaging study. <i>Molecular Psychiatry</i> , 2021, 26, 2137-2147.	7.9	10
111	Prioritizing Genetic Contributors to Cortical Alterations in 22q11.2 Deletion Syndrome Using Imaging Transcriptomics. <i>Cerebral Cortex</i> , 2021, 31, 3285-3298.	2.9	10
112	Development of a probability calculator for psychosis risk in children, adolescents, and young adults. <i>Psychological Medicine</i> , 2022, 52, 3159-3167.	4.5	9
113	Relationship of ventral striatum activation during effort discounting to clinical amotivation severity in schizophrenia. <i>NPJ Schizophrenia</i> , 2021, 7, 48.	3.6	9
114	Faster family-wise error control for neuroimaging with a parametric bootstrap. <i>Biostatistics</i> , 2018, 19, 497-513.	1.5	8
115	Alterations in white matter microstructure in individuals at persistent risk for psychosis. <i>Molecular Psychiatry</i> , 2020, 25, 2441-2454.	7.9	8
116	Feasibility of Cognitive Functional Assessment in Cardiac Arrest Survivors Using an Abbreviated Laptop-Based Neurocognitive Battery. <i>Therapeutic Hypothermia and Temperature Management</i> , 2014, 4, 131-136.	0.9	7
117	Robust Spatial Extent Inference With a Semiparametric Bootstrap Joint Inference Procedure. <i>Biometrics</i> , 2019, 75, 1145-1155.	1.4	7
118	Reduced safety processing during aversive social conditioning in psychosis and clinical risk. <i>Neuropsychopharmacology</i> , 2019, 44, 2247-2253.	5.4	7
119	Adaptation and validation of a computerized neurocognitive battery in the Xhosa of South Africa.. <i>Neuropsychology</i> , 2021, 35, 581-594.	1.3	7
120	Development of an itemwise efficiency scoring method: Concurrent, convergent, discriminant, and neuroimaging-based predictive validity assessed in a large community sample.. <i>Psychological Assessment</i> , 2016, 28, 1529-1542.	1.5	7
121	Reply to Joel and Tarrasch: On misreading and shooting the messenger. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E638-E638.	7.1	6
122	Divergent Amygdala Volume Asymmetries for Male and Female Youth With High Versus Low Callous-Unemotional Traits. <i>Crime and Delinquency</i> , 2020, 66, 1419-1437.	1.7	6
123	Effect of mGluR2 positive allosteric modulation on frontostriatal working memory activation in schizophrenia. <i>Molecular Psychiatry</i> , 2022, 27, 1226-1232.	7.9	6
124	Impact of childhood adversity on network reconfiguration dynamics during working memory in hypogonadal women. <i>Psychoneuroendocrinology</i> , 2020, 119, 104710.	2.7	5
125	A Comprehensive Analysis of Cerebellar Volumes in the 22q11.2 Deletion Syndrome. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2023, 8, 79-90.	1.5	5
126	Disrupted anatomic networks in the 22q11.2 deletion syndrome. <i>NeuroImage: Clinical</i> , 2016, 12, 420-428.	2.7	4

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127	Correspondence between adolescent and informant reports of substance use: Findings from the Philadelphia Neurodevelopmental Cohort. <i>Addictive Behaviors</i> , 2017, 65, 13-18.	3.0	4
128	Structural Brain Patterns Associated with Traumatic Stress Resilience and Susceptibility to Mood and Anxiety Symptoms in Youths. <i>Adversity and Resilience Science</i> , 2020, 1, 179-190.	2.6	4
129	When CAT is not an option: complementary methods of test abbreviation for neurocognitive batteries. <i>Cognitive Neuropsychiatry</i> , 2021, 26, 35-54.	1.3	4
130	Development and public release of the Penn Reading Assessment Computerized Adaptive Test (PRA-CAT) for premorbid IQ.. <i>Psychological Assessment</i> , 2019, 31, 1168-1173.	1.5	4
131	Data-Driven Quantitative Susceptibility Mapping Using Loss Adaptive Dipole Inversion (LADI). <i>Journal of Magnetic Resonance Imaging</i> , 2020, 52, 823-835.	3.4	3
132	Altered functional brain dynamics in chromosome 22q11.2 deletion syndrome during facial affect processing. <i>Molecular Psychiatry</i> , 2022, 27, 1158-1166.	7.9	1
133	Comparison of two cognitive screening measures in a longitudinal sample of youth at-risk for psychosis. <i>Schizophrenia Research</i> , 2022, 246, 216-224.	2.0	1