Paul J Laurienti

List of Publications by Year
in descending order

146 papers	13,387 citations	50276 46 h-index	22832 112 g-index
153 all docs	153 docs citations	153 times ranked	15848 citing authors

#	Article	IF	Citations
1	An automated method for neuroanatomic and cytoarchitectonic atlas-based interrogation of fMRI data sets. NeuroImage, 2003, 19, 1233-1239.	4.2	4,688
2	Precentral gyrus discrepancy in electronic versions of the Talairach atlas. NeuroImage, 2004, 21, 450-455.	4.2	798
3	The subjective experience of pain: Where expectations become reality. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12950-12955.	7.1	578
4	The Ubiquity of Small-World Networks. Brain Connectivity, 2011, 1, 367-375.	1.7	401
5	Enhanced multisensory integration in older adults. Neurobiology of Aging, 2006, 27, 1155-1163.	3.1	377
6	Deactivation of Sensory-Specific Cortex by Cross-Modal Stimuli. Journal of Cognitive Neuroscience, 2002, 14, 420-429.	2.3	353
7	Comparison of characteristics between region-and voxel-based network analyses in resting-state fMRI data. NeuroImage, 2010, 50, 499-508.	4.2	341
8	Biological parametric mapping: A statistical toolbox for multimodality brain image analysis. NeuroImage, 2007, 34, 137-143.	4.2	294
9	A New Measure of Centrality for Brain Networks. PLoS ONE, 2010, 5, e12200.	2.5	254
10	The Brain as a Complex System: Using Network Science as a Tool for Understanding the Brain. Brain Connectivity, 2011, 1, 295-308.	1.7	225
11	Semantic congruence is a critical factor in multisensory behavioral performance. Experimental Brain Research, 2004, 158, 405-14.	1.5	224
12	Long-term heavy marijuana users make costly decisions on a gambling task. Drug and Alcohol Dependence, 2004, 76, 107-111.	3.2	209
13	Acute effect of a high nitrate diet on brain perfusion in older adults. Nitric Oxide - Biology and Chemistry, 2011, 24, 34-42.	2.7	188
14	Age-related multisensory enhancement in a simple audiovisual detection task. NeuroReport, 2007, 18, 1077-1081.	1.2	172
15	On the use of superadditivity as a metric for characterizing multisensory integration in functional neuroimaging studies. Experimental Brain Research, 2005, 166, 289-297.	1.5	162
16	Defining nodes in complex brain networks. Frontiers in Computational Neuroscience, 2013, 7, 169.	2.1	160
17	The effect of daily caffeine use on cerebral blood flow: How much caffeine can we tolerate?. Human Brain Mapping, 2009, 30, 3102-3114.	3.6	150
18	Consistency of Network Modules in Resting-State fMRI Connectome Data. PLoS ONE, 2012, 7, e44428.	2.5	138

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19	Modality-specific selective attention attenuates multisensory integration. Experimental Brain Research, 2007, 184, 39-52.	1.5	122
20	A cognitive training intervention improves modality-specific attention in a randomized controlled trial of healthy older adults. Neurobiology of Aging, 2011, 32, 655-668.	3.1	116
21	Analyzing complex functional brain networks: Fusing statistics and network science to understand the brain. Statistics Surveys, 2013, 7, 1-36.	11.3	111
22	Semantic confusion regarding the development of multisensory integration: a practical solution. European Journal of Neuroscience, 2010, 31, 1713-1720.	2.6	107
23	Cross-modal sensory processing in the anterior cingulate and medial prefrontal cortices. Human Brain Mapping, 2003, 19, 213-223.	3.6	103
24	Dietary Caffeine Consumption and Withdrawal: Confounding Variables in Quantitative Cerebral Perfusion Studies?. Radiology, 2003, 227, 129-135.	7.3	102
25	Power and sample size calculation for neuroimaging studies by non-central random field theory. NeuroImage, 2007, 37, 721-730.	4.2	102
26	Exponential Random Graph Modeling for Complex Brain Networks. PLoS ONE, 2011, 6, e20039.	2.5	94
27	An exponential random graph modeling approach to creating group-based representative whole-brain connectivity networks. NeuroImage, 2012, 60, 1117-1126.	4.2	91
28	Reproducibility of Graph Metrics in fMRI Networks. Frontiers in Neuroinformatics, 2010, 4, 117.	2.5	88
29	Changes in Cognitive State Alter Human Functional Brain Networks. Frontiers in Human Neuroscience, 2011, 5, 83.	2.0	86
30	Changes in Brain Network Efficiency and Working Memory Performance in Aging. PLoS ONE, 2015, 10, e0123950.	2.5	86
31	Suppression of multisensory integration by modality-specific attention in aging. NeuroReport, 2009, 20, 349-353.	1.2	85
32	Brain and White Matter Hyperintensity Volumes After 10 Years of Random Assignment to Lifestyle Intervention. Diabetes Care, 2016, 39, 764-771.	8.6	79
33	Multisensory enhancement of localization under conditions of induced myopia. Experimental Brain Research, 2003, 152, 404-408.	1.5	74
34	Changes in global and regional modularity associated with increasing working memory load. Frontiers in Human Neuroscience, 2014, 8, 954.	2.0	67
35	Mechanisms of Human Erythrocytic Bioactivation of Nitrite. Journal of Biological Chemistry, 2015, 290, 1281-1294.	3.4	67
36	Aging and the interaction of sensory cortical function and structure. Human Brain Mapping, 2009, 30, 228-240.	3.6	62

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37	The Human Functional Brain Network Demonstrates Structural and Dynamical Resilience to Targeted Attack. PLoS Computational Biology, 2013, 9, e1002885.	3.2	61
38	Hippocampal Contributions to the Large-Scale Episodic Memory Network Predict Vivid Visual Memories. Cerebral Cortex, 2017, 27, 680-693.	2.9	61
39	A permutation testing framework to compare groups of brain networks. Frontiers in Computational Neuroscience, 2013, 7, 171.	2.1	57
40	Discovery of common chemical exposures across three continents using silicone wristbands. Royal Society Open Science, 2019, 6, 181836.	2.4	56
41	Relationship between caffeine-induced changes in resting cerebral perfusion and blood oxygenation level-dependent signal. American Journal of Neuroradiology, 2003, 24, 1607-11.	2.4	54
42	Effects of supervised exercise and dietary nitrate in older adults with controlled hypertension and/or heart failure with preserved ejection fraction. Nitric Oxide - Biology and Chemistry, 2017, 69, 78-90.	2.7	51
43	Dietary caffeine consumption modulates fMRI measures. NeuroImage, 2002, 17, 751-7.	4.2	51
44	A comparison of the effects of caffeine following abstinence and normal caffeine use. Psychopharmacology, 2009, 207, 423-431.	3.1	49
45	Sliding window correlation analysis: Modulating window shape for dynamic brain connectivity in resting state. NeuroImage, 2019, 189, 655-666.	4.2	49
46	The association between frontal–striatal connectivity and sensorimotor control in cocaine users. Drug and Alcohol Dependence, 2011, 115, 240-243.	3.2	46
47	COVID-19 Pandemic among Latinx Farmworker and Nonfarmworker Families in North Carolina: Knowledge, Risk Perceptions, and Preventive Behaviors. International Journal of Environmental Research and Public Health, 2020, 17, 5786.	2.6	46
48	Universal fractal scaling of self-organized networks. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 3608-3613.	2.6	42
49	Personal samplers of bioavailable pesticides integrated with a hair follicle assay of DNA damage to assess environmental exposures and their associated risks in children. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2017, 822, 27-33.	1.7	40
50	In Vivo Imaging of Venous Side Cerebral Small-Vessel Disease in Older Adults: An MRI Method at 7T. American Journal of Neuroradiology, 2017, 38, 1923-1928.	2.4	40
51	The impact of temporal regularization on estimates of the BOLD hemodynamic response function: A comparative analysis. NeuroImage, 2008, 40, 1606-1618.	4.2	39
52	A two-part mixed-effects modeling framework for analyzing whole-brain network data. NeuroImage, 2015, 113, 310-319.	4.2	36
53	Preservation of crossmodal selective attention in healthy aging. Experimental Brain Research, 2009, 198, 273-285.	1.5	35
54	The single-epoch fMRI design: validation of a simplified paradigm for the collection of subjective ratings. NeuroImage, 2003, 19, 976-987.	4.2	33

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55	Power of food moderates food craving, perceived control, and brain networks following a short-term post-absorptive state in older adults. Appetite, 2012, 58, 806-813.	3.7	32
56	Stability of Whole Brain and Regional Network Topology within and between Resting and Cognitive States. PLoS ONE, 2013, 8, e70275.	2.5	32
57	Preliminary Report: Functional MRI of the Brain May Be the Ideal Tool for Evaluating Neuropsychologic and Sleep Complaints of Patients with Primary Hyperparathyroidism. World Journal of Surgery, 2006, 30, 686-696.	1.6	31
58	Methodological considerations for the quantification of self-reported caffeine use. Psychopharmacology, 2009, 203, 571-578.	3.1	31
59	Long Term Effect of Intensive Lifestyle Intervention on Cerebral Blood Flow. Journal of the American Geriatrics Society, 2018, 66, 120-126.	2.6	30
60	Multiple reproducibility indices for evaluation of cognitive functional MR imaging paradigms. American Journal of Neuroradiology, 2002, 23, 1030-7.	2.4	30
61	Organophosphate Pesticide Urinary Metabolites Among Latino Immigrants. Journal of Occupational and Environmental Medicine, 2016, 58, 1079-1086.	1.7	29
62	Dynamic fMRI networks predict success in a behavioral weight loss program among older adults. NeuroImage, 2018, 173, 421-433.	4.2	29
63	COVID-19 Pandemic Among Immigrant Latinx Farmworker and Non-farmworker Families: A Rural–Urban Comparison of Economic, Educational, Healthcare, and Immigration Concerns. New Solutions, 2021, 31, 30-47.	1.2	28
64	Mental health among Latina farmworkers and other employed Latinas in North Carolina.. Journal of Rural Mental Health, 2018, 42, 89-101.	0.9	28
65	Deactivations, Global Signal, and the Default Mode of Brain Function. Journal of Cognitive Neuroscience, 2004, 16, 1481-1483.	2.3	27
66	Age-Related Increase in Cross-Sensory Noise in Resting and Steady-State Cerebral Perfusion. Brain Topography, 2009, 21, 241-251.	1.8	27
67	Pesticide exposure among Latinx children: Comparison of children in rural, farmworker and urban, non-farmworker communities. Science of the Total Environment, 2021, 763, 144233.	8.0	25
68	Graph Theory Analysis of Functional Brain Networks and Mobility Disability in Older Adults. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2014, 69, 1399-1406.	3.6	24
69	Alcohol Consumption and Risk for Dependence Among Male Latino Migrant Farmworkers Compared to Latino Nonfarmworkers in North Carolina. Alcoholism: Clinical and Experimental Research, 2016, 40, 377-384.	2.4	24
70	Moderate-Heavy Alcohol Consumption Lifestyle in Older Adults Is Associated with Altered Central Executive Network Community Structure during Cognitive Task. PLoS ONE, 2016, 11, e0160214.	2.5	24
71	Effects of Improvisational Dance on Balance in Parkinson's Disease: A Two-Phase fMRI Case Study. Physical and Occupational Therapy in Geriatrics, 2014, 32, 188-197.	0.4	22
72	Disentangling Brain Graphs: A Note on the Conflation of Network and Connectivity Analyses. Brain Connectivity, 2016, 6, 95-98.	1.7	21

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73	Differing patterns of stress and craving across the day in moderate-heavy alcohol consumers during their typical drinking routine and an imposed period of alcohol abstinence. PLoS ONE, 2018, 13, e0195063.	2.5	21
74	Pesticide Urinary Metabolites Among Latina Farmworkers and Nonfarmworkers in North Carolina. Journal of Occupational and Environmental Medicine, 2018, 60, e63-e71.	1.7	20
75	Meal replacement: calming the hot-state brain network of appetite. Frontiers in Psychology, 2014, 5, 249.	2.1	19
76	Functional Brain Networks Formed Using Cross-Sample Entropy Are Scale Free. Brain Connectivity, 2014, 4, 454-464.	1.7	19
77	A mixed-modeling framework for analyzing multitask whole-brain network data. Network Neuroscience, 2019, 3, 307-324.	2.6	19
78	Clinical Implementation of Spin-Tag Perfusion Magnetic Resonance Imaging. Journal of Computer Assisted Tomography, 2008, 32, 403-406.	0.9	18
79	Coping with brief periods of food restriction: mindfulness matters. Frontiers in Aging Neuroscience, 2012, 4, 13.	3.4	18
80	Age-Related Differences in Advantageous Decision Making Are Associated with Distinct Differences in Functional Community Structure. Brain Connectivity, 2014, 4, 193-202.	1.7	18
81	Ethics in 15Âmin per Week. Science and Engineering Ethics, 2011, 17, 289-297.	2.9	17
82	Drive for consumption, craving, and connectivity in the visual cortex during the imagery of desired food. Frontiers in Aging Neuroscience, 2013, 5, 77.	3.4	17
83	A MATLAB toolbox for multivariate analysis of brain networks. Human Brain Mapping, 2019, 40, 175-186.	3.6	17
84	The impacts of pesticide and nicotine exposures on functional brain networks in Latino immigrant workers. NeuroToxicology, 2017, 62, 138-150.	3.0	16
85	Global integration of the hot-state brain network of appetite predicts short term weight loss in older adult. Frontiers in Aging Neuroscience, 2015, 7, 70.	3.4	15
86	Farmworker and nonfarmworker Latino immigrant men in North Carolina have high levels of specific pesticide urinary metabolites. Archives of Environmental and Occupational Health, 2018, 73, 219-227.	1.4	15
87	Using Life History Calendars to Estimate in Utero and Early Life Pesticide Exposure of Latinx Children in Farmworker Families. International Journal of Environmental Research and Public Health, 2020, 17, 3478.	2.6	15
88	A Network of Genes, Genetic Disorders, and Brain Areas. PLoS ONE, 2011, 6, e20907.	2.5	14
89	Learning Common Harmonic Waves on Stiefel Manifold â€" A New Mathematical Approach for Brain Network Analyses. IEEE Transactions on Medical Imaging, 2021, 40, 419-430.	8.9	14
90	Modularity maps reveal community structure in the resting human brain. Nature Precedings, 2009, , .	0.1	13

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91	Applying capacity analyses to psychophysical evaluation of multisensory interactions. Information Fusion, 2010, 11, 12-20.	19.1	13
92	Analysis of brain subnetworks within the context of their whole‐brain networks. Human Brain Mapping, 2019, 40, 5123-5141.	3.6	13
93	Separating neural processes using mixed event-related and epoch-based fMRI paradigms. Journal of Neuroscience Methods, 2003, 131, 41-50.	2.5	12
94	Aging Brain from a Network Science Perspective: Something to Be Positive About?. PLoS ONE, 2013, 8, e78345.	2.5	12
95	Conventional and Complementary Therapy Use among Mexican Farmworkers in North Carolina: Applying the I-CAM-Q. Journal of Agromedicine, 2019, 24, 257-267.	1.5	12
96	Using Low-Dimensional Manifolds to Map Relationships Between Dynamic Brain Networks. Frontiers in Human Neuroscience, 2019, 13, 430.	2.0	12
97	Graph-Theoretical Study of Functional Changes Associated with the Iowa Gambling Task. Frontiers in Human Neuroscience, 2016, 10, 314.	2.0	10
98	Functional Brain Network Changes Following Use of an Allostatic, Closed‐Loop, Acoustic Stimulation Neurotechnology for Military‐Related Traumatic Stress. Journal of Neuroimaging, 2019, 29, 70-78.	2.0	10
99	Urinary Cotinine Levels Among Latino Tobacco Farmworkers in North Carolina Compared to Latinos Not Employed in Agriculture. Nicotine and Tobacco Research, 2016, 18, 1517-1525.	2.6	9
100	Dynamic Functional Magnetic Resonance Imaging Connectivity Tensor Decomposition: A New Approach to Analyze and Interpret Dynamic Brain Connectivity. Brain Connectivity, 2019, 9, 95-112.	1.7	9
101	Detecting Brain State Changes by Geometric Deep Learning of Functional Dynamics on Riemannian Manifold. Lecture Notes in Computer Science, 2021, , 543-552.	1.3	9
102	Learning dynamic graph embeddings for accurate detection of cognitive state changes in functional brain networks. NeuroImage, 2021, 230, 117791.	4.2	9
103	The Effects of Alcohol on the Nonhuman Primate Brain: A Network Science Approach to Neuroimaging. Alcoholism: Clinical and Experimental Research, 2013, 37, 1891-1900.	2.4	8
104	CONVERGENCE OF TWO INDEPENDENT ROADS LEADS TO COLLABORATION BETWEEN EDUCATION AND NEUROSCIENCE. Psychology in the Schools, 2013, 50, 577-588.	1.8	8
105	The Effects of Chronic Alcohol Self-Administration in Nonhuman Primate Brain Networks. Alcoholism: Clinical and Experimental Research, 2015, 39, 659-671.	2.4	8
106	Functional Brain Networks: Unique Patterns with Hedonic Appetite and Confidence to Resist Eating in Older Adults with Obesity. Obesity, 2020, 28, 2379-2388.	3.0	8
107	Learning Brain Dynamics of Evolving Manifold Functional MRI Data Using Geometric-Attention Neural Network. IEEE Transactions on Medical Imaging, 2022, 41, 2752-2763.	8.9	8
108	Network Science: A New Method for Investigating the Complexity of Musical Experiences in The Brain. Leonardo, 2012, 45, 282-283.	0.3	7

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109	Cardiac vagal dysfunction moderates patterns of craving across the day in moderate to heavy consumers of alcohol. PLoS ONE, 2018, 13, e0200424.	2.5	7
110	Physical Activity and Cerebral Small Vein Integrity in Older Adults. Medicine and Science in Sports and Exercise, 2019, 51, 1684-1691.	0.4	7
111	Altered default mode network associated with pesticide exposure in Latinx children from rural farmworker families. NeuroImage, 2022, 256, 119179.	4.2	7
112	Relative differences in resting-state brain connectivity associated with long term intensive lifestyle intervention. Psychoneuroendocrinology, 2016, 74, 231-239.	2.7	6
113	Baseline gray‐and white‐matter volume predict successful weight loss in the elderly. Obesity, 2016, 24, 2475-2480.	3.0	6
114	A regression framework for brain network distance metrics. Network Neuroscience, 2022, 6, 49-68.	2.6	6
115	Improvisational Movement to Improve Quality of Life in Older Adults With Early-Stage Dementia: A Pilot Study. Frontiers in Sports and Active Living, 2021, 3, 796101.	1.8	6
116	Comparing impact of pesticide exposure on cognitive abilities of Latinx children from rural farmworker and urban non-farmworker families in North Carolina.. Neurotoxicology and Teratology, 2022, 92, 107106.	2.4	6
117	Fully Automated Processing of fMRI Data in SPM: from MRI Scanner to PACS. Neuroinformatics, 2009, 7, 57-72.	2.8	5
118	Brain Anatomy in Latino Farmworkers Exposed to Pesticides and Nicotine. Journal of Occupational and Environmental Medicine, 2016, 58, 436-443.	1.7	5
119	Effects of a Motor Imagery Task on Functional Brain Network Community Structure in Older Adults: Data from the Brain Networks and Mobility Function (B-NET) Study. Brain Sciences, 2021, 11, 118.	2.3	5
120	Detecting Changes of Functional Connectivity by Dynamic Graph Embedding Learning. Lecture Notes in Computer Science, 2020, , 489-497.	1.3	5
121	Entropic regression with neurologically motivated applications. Chaos, 2021, 31, 113105.	2.5	5
122	Embedding Functional Brain Networks in Low Dimensional Spaces Using Manifold Learning Techniques. Frontiers in Neuroinformatics, 2021, 15, 740143.	2.5	5
123	Exploring Associations Between Postural Balance and Levels of Urinary Organophosphorus Pesticide Metabolites. Journal of Occupational and Environmental Medicine, 2018, 60, 174-179.	1.7	4
124	Influence of Heart Rate Variability on Abstinence-Related Changes in Brain State in Everyday Drinkers. Brain Sciences, 2021, 11, 817.	2.3	4
125	Joint hub identification for brain networks by multivariate graph inference. Medical Image Analysis, 2021, 73, 102162.	11.6	4
126	Uncovering shape signatures of <scp>resting‐state</scp> functional connectivity by geometric deep learning on Riemannian manifold. Human Brain Mapping, 2022, , .	3.6	4

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127	The Effects of Dietary Caffeine Use and Abstention on Blood Oxygen Level-Dependent Activation and Cerebral Blood Flow. Journal of Caffeine Research, 2012, 2, 15-22.	0.9	3
128	Wake Forest Alcohol Imagery Set: Development and Validation of a Large Standardized Alcohol Imagery Dataset. Alcoholism: Clinical and Experimental Research, 2019, 43, 2559-2567.	2.4	3
129	A genetic algorithm for controlling an agent-based model of the functional human brain. Biomedical Sciences Instrumentation, 2012, 48, 210-7.	0.2	3
130	[O2–07–05]: EFFECTS OF AEROBIC EXERCISE ON FUNCTIONAL CONNECTIVITY OF PREFRONTAL CORTEX IN MCI: RESULTS OF A RANDOMIZED CONTROLLED TRIAL. Alzheimer's and Dementia, 2017, 13, P569.	0.8	2
131	Adverse Childhood Experiences Among Low-Income, Latinx Children in Immigrant Families: Comparison of Children in Rural Farmworker and Urban Non-Farmworker Communities. Journal of Immigrant and Minority Health, 2021, , 1.	1.6	2
132	Longitudinal relationship of baseline functional brain networks with intentional weight loss in older adults. Obesity, 2022, 30, 902-910.	3.0	2
133	Universal fractal scaling of self-organized networks. Nature Precedings, 2010, , .	0.1	1
134	Neural murmurations. Physics of Life Reviews, 2014, 11, 452-454.	2.8	1
135	Effects of an Allostatic Closed–Loop Neurotechnology (HIRREM) on Brain Functional Connectivity Laterality in Military–Related Traumatic Stress. Journal of Neuroimaging, 2021, 31, 287-296.	2.0	1
136	Depressive Symptoms of Latinx Women in Rural Farmworker and Urban Non-Farmworker Families in North Carolina. Journal of Racial and Ethnic Health Disparities, 2021, , 1.	3.2	1
137	Universal fractal scaling of self-organized networks. Nature Precedings, 2010, , .	0.1	0
138	The Role of Meal Replacements in Regulating the Hedonic Brain Network of Appetite. Journal of Alternative and Complementary Medicine, 2014, 20, A31-A31.	2.1	0
139	P4–371: Effects of Improvisational Movement on Brain Networks, Quality of Life, and Neuropsychiatric Symptoms in People with Early–Stage ad. Alzheimer's and Dementia, 2016, 12, P1179.	0.8	0
140	[O3–11–05]: LONG–TERM IMPACT OF INTENSIVE LIFESTYLE INTERVENTION ON CEREBRAL BLOOD FLOW. Alzheimer's and Dementia, 2017, 13, P928.	0.8	0
141	EFFECTS OF FUNCTIONAL BRAIN NETWORKS AND WHITE MATTER DISEASE ON MOBILITY OF OLDER ADULTS IN AN EXERCISE INTERVENTION. Innovation in Aging, 2019, 3, S851-S852.	0.1	0
142	Associations between amyloid–β, white matter disease, functional brain networks, and mobility function: Possible indicators of reserve and resilience. Alzheimer's and Dementia, 2020, 16, e041213.	0.8	0
143	A Novel Spatio-Temporal Hub Identification Method for Dynamic Functional Networks. , 2020, 2020, 1416-1419.		0
144	Children with chronic nausea and orthostatic intolerance have unique brain network organization: A case–control trial. Neurogastroenterology and Motility, 2022, 34, e14271.	3.0	0

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145	Brain Resilience: The Effect of White Matter Disease on Brain Networks in Cognitively Normal Older Adults. Innovation in Aging, 2020, 4, 918-918.	0.1	0
146	A mixed-modeling framework for whole-brain dynamic network analysis. Network Neuroscience, 2022, 6, 591-613.	2.6	0