

Randy L Buckner

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

144
papers

61,910
citations

81
h-index

160
g-index

160
ext. papers

74,721
ext. citations

9.2
avg, IF

8.06
L-index

#	Paper	IF	Citations
144	Fluctuations in behavior and affect in college students measured using deep phenotyping.. <i>Scientific Reports</i> , 2022 , 12, 1932	4.9	2
143	Mapping genomic loci implicates genes and synaptic biology in schizophrenia.. <i>Nature</i> , 2022 ,	50.4	35
142	Characterizing cerebral hemodynamics across the adult lifespan with arterial spin labeling MRI data from the Human Connectome Project-Aging. <i>NeuroImage</i> , 2021 , 230, 117807	7.9	6
141	Open-source Longitudinal Sleep Analysis From Accelerometer Data (DPSleep): Algorithm Development and Validation. <i>JMIR MHealth and UHealth</i> , 2021 , 9, e29849	5.5	1
140	Effects of eight neuropsychiatric copy number variants on human brain structure. <i>Translational Psychiatry</i> , 2021 , 11, 399	8.6	3
139	The detailed organization of the human cerebellum estimated by intrinsic functional connectivity within the individual. <i>Journal of Neurophysiology</i> , 2021 , 125, 358-384	3.2	19
138	Heterogeneity of Cerebral White Matter Lesions and Clinical Correlates in Older Adults. <i>Stroke</i> , 2021 , 52, 620-630	6.7	2
137	Cortical thickness across the lifespan: Data from 17,075 healthy individuals aged 3-90 years. <i>Human Brain Mapping</i> , 2021 ,	5.9	26
136	Subcortical volumes across the lifespan: Data from 18,605 healthy individuals aged 3-90 years. <i>Human Brain Mapping</i> , 2021 ,	5.9	13
135	Sociodemographic characteristics of missing data in digital phenotyping. <i>Scientific Reports</i> , 2021 , 11, 15408	4.9	3
134	Precision Estimates of Parallel Distributed Association Networks: Evidence for Domain Specialization and Implications for Evolution and Development. <i>Current Opinion in Behavioral Sciences</i> , 2021 , 40, 120-129	4	6
133	Precision Estimates of Macroscale Network Organization in the Human and Their Relation to Anatomical Connectivity in the Marmoset Monkey. <i>Current Opinion in Behavioral Sciences</i> , 2021 , 40, 144-152	4	0
132	Cortical and subcortical brain structure in generalized anxiety disorder: findings from 28 research sites in the ENIGMA-Anxiety Working Group. <i>Translational Psychiatry</i> , 2021 , 11, 502	8.6	4
131	The genetic architecture of the human cerebral cortex. <i>Science</i> , 2020 , 367,	33.3	156
130	Mega-analysis methods in ENIGMA: The experience of the generalized anxiety disorder working group. <i>Human Brain Mapping</i> , 2020 ,	5.9	19
129	Parallel distributed networks dissociate episodic and social functions within the individual. <i>Journal of Neurophysiology</i> , 2020 , 123, 1144-1179	3.2	52
128	Abnormal Auditory Mismatch Fields in Children and Adolescents With 16p11.2 Deletion and 16p11.2 Duplication. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2020 , 5, 942-950	3.4	1

127	Situating the left-lateralized language network in the broader organization of multiple specialized large-scale distributed networks. <i>Journal of Neurophysiology</i> , 2020 , 124, 1415-1448	3.2	43
126	Increased amygdala-visual cortex connectivity in youth with persecutory ideation. <i>Psychological Medicine</i> , 2020 , 50, 273-283	6.9	9
125	The brain's default network: updated anatomy, physiology and evolving insights. <i>Nature Reviews Neuroscience</i> , 2019 , 20, 593-608	13.5	293
124	Macroscale cortical organization and a default-like apex transmodal network in the marmoset monkey. <i>Nature Communications</i> , 2019 , 10, 1976	17.4	43
123	Interrogating the Genetic Determinants of Tourette's Syndrome and Other Tic Disorders Through Genome-Wide Association Studies. <i>American Journal of Psychiatry</i> , 2019 , 176, 217-227	11.9	95
122	3.4 CHANGES IN AMYGDALA AND HIPPOCAMPAL FUNCTIONAL CONNECTIVITY IN SUBCLINICAL PSYCHOSIS: RELATIONSHIP TO SYMPTOM PERSISTENCE, PARANOIA AND ABERRANT SALIENCE. <i>Schizophrenia Bulletin</i> , 2019 , 45, S90-S91	1.3	78
121	Parallel distributed networks resolved at high resolution reveal close juxtaposition of distinct regions. <i>Journal of Neurophysiology</i> , 2019 , 121, 1513-1534	3.2	64
120	Genetic architecture of subcortical brain structures in 38,851 individuals. <i>Nature Genetics</i> , 2019 , 51, 1624-1636	16.3	81
119	The Lifespan Human Connectome Project in Aging: An overview. <i>NeuroImage</i> , 2019 , 185, 335-348	7.9	74
118	Global White Matter Diffusion Characteristics Predict Longitudinal Cognitive Change Independently of Amyloid Status in Clinically Normal Older Adults. <i>Cerebral Cortex</i> , 2019 , 29, 1251-1262	5.1	30
117	Quantifying the Effects of 16p11.2 Copy Number Variants on Brain Structure: A Multisite Genetic-First Study. <i>Biological Psychiatry</i> , 2018 , 84, 253-264	7.9	33
116	Reply to Risk and Zhu: Mixed-effects modeling as a principled approach to heritability analysis with repeat measurements. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E123	11.5	
115	The Lifespan Human Connectome Project in Development: A large-scale study of brain connectivity development in 5-21 year olds. <i>NeuroImage</i> , 2018 , 183, 456-468	7.9	71
114	Genomic Dissection of Bipolar Disorder and Schizophrenia, Including 28 Subphenotypes. <i>Cell</i> , 2018 , 173, 1705-1715.e16	56.2	360
113	Brain MR Imaging Findings and Associated Outcomes in Carriers of the Reciprocal Copy Number Variation at 16p11.2. <i>Radiology</i> , 2018 , 286, 217-226	20.5	19
112	Extending the Human Connectome Project across ages: Imaging protocols for the Lifespan Development and Aging projects. <i>NeuroImage</i> , 2018 , 183, 972-984	7.9	101
111	Dedifferentiation of caudate functional connectivity and striatal dopamine transporter density predict memory change in normal aging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 10160-10165	11.5	27
110	ENIGMA and the individual: Predicting factors that affect the brain in 35 countries worldwide. <i>NeuroImage</i> , 2017 , 145, 389-408	7.9	142

109	Novel genetic loci associated with hippocampal volume. <i>Nature Communications</i> , 2017 , 8, 13624	17.4	173
108	342. Large-Scale Networks of the Human Cerebral Cortex. <i>Biological Psychiatry</i> , 2017 , 81, S140	7.9	
107	Heritability analysis with repeat measurements and its application to resting-state functional connectivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 5521-5526	11.5	76
106	Parallel Interdigitated Distributed Networks within the Individual Estimated by Intrinsic Functional Connectivity. <i>Neuron</i> , 2017 , 95, 457-471.e5	13.9	301
105	MGH-USC Human Connectome Project datasets with ultra-high b-value diffusion MRI. <i>NeuroImage</i> , 2016 , 124, 1108-1114	7.9	144
104	Multiple Brain Markers are Linked to Age-Related Variation in Cognition. <i>Cerebral Cortex</i> , 2016 , 26, 1388-400	7.9	114
103	Polygenic risk of Alzheimer disease is associated with early- and late-life processes. <i>Neurology</i> , 2016 , 87, 481-8	6.5	86
102	Reciprocal white matter alterations due to 16p11.2 chromosomal deletions versus duplications. <i>Human Brain Mapping</i> , 2016 , 37, 2833-48	5.9	25
101	Prospective motion correction with volumetric navigators (vNavs) reduces the bias and variance in brain morphometry induced by subject motion. <i>NeuroImage</i> , 2016 , 127, 11-22	7.9	75
100	Transcriptional profiles of supragranular-enriched genes associate with corticocortical network architecture in the human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E469-78	11.5	136
99	Dopamine transporter availability in clinically normal aging is associated with individual differences in white matter integrity. <i>Human Brain Mapping</i> , 2016 , 37, 621-31	5.9	15
98	Relationship between M100 Auditory Evoked Response and Auditory Radiation Microstructure in 16p11.2 Deletion and Duplication Carriers. <i>American Journal of Neuroradiology</i> , 2016 , 37, 1178-84	4.4	14
97	Dopamine D1 signaling organizes network dynamics underlying working memory. <i>Science Advances</i> , 2016 , 2, e1501672	14.3	41
96	Individual Differences in Cognitive Control Circuit Anatomy Link Sensation Seeking, Impulsivity, and Substance Use. <i>Journal of Neuroscience</i> , 2016 , 36, 4038-49	6.6	90
95	Accelerated decline in white matter integrity in clinically normal individuals at risk for Alzheimer's disease. <i>Neurobiology of Aging</i> , 2016 , 42, 177-88	5.6	33
94	Morphometricity as a measure of the neuroanatomical signature of a trait. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E5749-56	11.5	30
93	Novel genetic loci underlying human intracranial volume identified through genome-wide association. <i>Nature Neuroscience</i> , 2016 , 19, 1569-1582	25.5	147
92	Common genetic variants influence human subcortical brain structures. <i>Nature</i> , 2015 , 520, 224-9	50.4	601

91	Gray matter myelination of 1555 human brains using partial volume corrected MRI images. <i>NeuroImage</i> , 2015 , 105, 473-85	7.9	106
90	A ten-year follow-up of a study of memory for the attack of September 11, 2001: Flashbulb memories and memories for flashbulb events. <i>Journal of Experimental Psychology: General</i> , 2015 , 144, 604-23	4.7	79
89	Parcellating cortical functional networks in individuals. <i>Nature Neuroscience</i> , 2015 , 18, 1853-60	25.5	278
88	Head motion during MRI acquisition reduces gray matter volume and thickness estimates. <i>NeuroImage</i> , 2015 , 107, 107-115	7.9	291
87	Functional Specialization and Flexibility in Human Association Cortex. <i>Cerebral Cortex</i> , 2015 , 25, 3654-72	5.1	265
86	Brain Genomics Superstruct Project initial data release with structural, functional, and behavioral measures. <i>Scientific Data</i> , 2015 , 2, 150031	8.2	204
85	Reliability correction for functional connectivity: Theory and implementation. <i>Human Brain Mapping</i> , 2015 , 36, 4664-80	5.9	48
84	Massively expedited genome-wide heritability analysis (MEGHA). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 2479-84	11.5	52
83	Estimates of segregation and overlap of functional connectivity networks in the human cerebral cortex. <i>NeuroImage</i> , 2014 , 88, 212-27	7.9	155
82	The ENIGMA Consortium: large-scale collaborative analyses of neuroimaging and genetic data. <i>Brain Imaging and Behavior</i> , 2014 , 8, 153-82	4.1	539
81	Aberrant white matter microstructure in children with 16p11.2 deletions. <i>Journal of Neuroscience</i> , 2014 , 34, 6214-23	6.6	53
80	Reconfigurable task-dependent functional coupling modes cluster around a core functional architecture. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369,	5.8	214
79	Functional specialization in the human brain estimated by intrinsic hemispheric interaction. <i>Journal of Neuroscience</i> , 2014 , 34, 12341-52	6.6	90
78	Opposing brain differences in 16p11.2 deletion and duplication carriers. <i>Journal of Neuroscience</i> , 2014 , 34, 11199-211	6.6	108
77	Resting-state networks link invasive and noninvasive brain stimulation across diverse psychiatric and neurological diseases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E4367-75	11.5	348
76	The human ortholog of acid-sensing ion channel gene ASIC1a is associated with panic disorder and amygdala structure and function. <i>Biological Psychiatry</i> , 2014 , 76, 902-10	7.9	57
75	Borders, map clusters, and supra-areal organization in visual cortex. <i>NeuroImage</i> , 2014 , 93 Pt 2, 292-7	7.9	29
74	An open science resource for establishing reliability and reproducibility in functional connectomics. <i>Scientific Data</i> , 2014 , 1, 140049	8.2	247

73	Neural correlates of dueling affective reactions to win-win choices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 10978-83	11.5	43
72	Neurobiological basis of head motion in brain imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 6058-62	11.5	221
71	Disruption of cortical association networks in schizophrenia and psychotic bipolar disorder. <i>JAMA Psychiatry</i> , 2014 , 71, 109-18	14.5	261
70	The evolution of distributed association networks in the human brain. <i>Trends in Cognitive Sciences</i> , 2013 , 17, 648-65	14	412
69	The cerebellum and cognitive function: 25 years of insight from anatomy and neuroimaging. <i>Neuron</i> , 2013 , 80, 807-15	13.9	627
68	Opportunities and limitations of intrinsic functional connectivity MRI. <i>Nature Neuroscience</i> , 2013 , 16, 832-7	25.5	625
67	Cerebellar asymmetry and its relation to cerebral asymmetry estimated by intrinsic functional connectivity. <i>Journal of Neurophysiology</i> , 2013 , 109, 46-57	3.2	78
66	The brain's default network: origins and implications for the study of psychosis. <i>Dialogues in Clinical Neuroscience</i> , 2013 , 15, 351-8	5.7	78
65	Individual differences in amygdala-medial prefrontal anatomy link negative affect, impaired social functioning, and polygenic depression risk. <i>Journal of Neuroscience</i> , 2012 , 32, 18087-100	6.6	223
64	The influence of head motion on intrinsic functional connectivity MRI. <i>NeuroImage</i> , 2012 , 59, 431-8	7.9	1823
63	The serendipitous discovery of the brain's default network. <i>NeuroImage</i> , 2012 , 62, 1137-45	7.9	200
62	Failure to modulate attentional control in advanced aging linked to white matter pathology. <i>Cerebral Cortex</i> , 2012 , 22, 1038-51	5.1	57
61	The organization of the human striatum estimated by intrinsic functional connectivity. <i>Journal of Neurophysiology</i> , 2012 , 108, 2242-63	3.2	527
60	Default mode of brain function in monkeys. <i>Journal of Neuroscience</i> , 2011 , 31, 12954-62	6.6	223
59	Amyloid- β -associated cortical thinning in clinically normal elderly. <i>Annals of Neurology</i> , 2011 , 69, 1032-42	9.4	250
58	The organization of the human cerebellum estimated by intrinsic functional connectivity. <i>Journal of Neurophysiology</i> , 2011 , 106, 2322-45	3.2	1265
57	The organization of the human cerebral cortex estimated by intrinsic functional connectivity. <i>Journal of Neurophysiology</i> , 2011 , 106, 1125-65	3.2	3997
56	Localization of focal epileptic discharges using functional connectivity magnetic resonance imaging. <i>Journal of Neurosurgery</i> , 2011 , 114, 1693-7	3.2	64

55	Focal pontine lesions provide evidence that intrinsic functional connectivity reflects polysynaptic anatomical pathways. <i>Journal of Neuroscience</i> , 2011 , 31, 15065-71	6.6	87
54	Correlated low-frequency BOLD fluctuations in the resting human brain are modulated by recent experience in category-preferential visual regions. <i>Cerebral Cortex</i> , 2010 , 20, 1997-2006	5.1	145
53	Intrinsic functional connectivity as a tool for human connectomics: theory, properties, and optimization. <i>Journal of Neurophysiology</i> , 2010 , 103, 297-321	3.2	1375
52	Human functional connectivity: new tools, unresolved questions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 10769-70	11.5	68
51	The organization of local and distant functional connectivity in the human brain. <i>PLoS Computational Biology</i> , 2010 , 6, e1000808	5	291
50	Toward discovery science of human brain function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 4734-9	11.5	2183
49	The role of the hippocampus in prediction and imagination. <i>Annual Review of Psychology</i> , 2010 , 61, 27-48, C1-8	26.1	276
48	Functional connectivity of the macaque posterior parahippocampal cortex. <i>Journal of Neurophysiology</i> , 2010 , 103, 793-800	3.2	35
47	Open access series of imaging studies: longitudinal MRI data in nondemented and demented older adults. <i>Journal of Cognitive Neuroscience</i> , 2010 , 22, 2677-84	3.1	266
46	Evidence for the default network's role in spontaneous cognition. <i>Journal of Neurophysiology</i> , 2010 , 104, 322-35	3.2	443
45	Functional-anatomic fractionation of the brain's default network. <i>Neuron</i> , 2010 , 65, 550-62	13.9	1800
44	Evidence from intrinsic activity that asymmetry of the human brain is controlled by multiple factors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 20499-503	11.5	275
43	Cortical hubs revealed by intrinsic functional connectivity: mapping, assessment of stability, and relation to Alzheimer's disease. <i>Journal of Neuroscience</i> , 2009 , 29, 1860-73	6.6	2076
42	Amyloid deposition is associated with impaired default network function in older persons without dementia. <i>Neuron</i> , 2009 , 63, 178-88	13.9	728
41	Disruption of functional connectivity in clinically normal older adults harboring amyloid burden. <i>Journal of Neuroscience</i> , 2009 , 29, 12686-94	6.6	444
40	Segregated fronto-cerebellar circuits revealed by intrinsic functional connectivity. <i>Cerebral Cortex</i> , 2009 , 19, 2485-97	5.1	566
39	EXPLORING FUNCTIONAL CONNECTIVITY IN FMRI VIA CLUSTERING. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2009 , 2009, 441-444	1.6	19
38	Evidence for a frontoparietal control system revealed by intrinsic functional connectivity. <i>Journal of Neurophysiology</i> , 2008 , 100, 3328-42	3.2	1315

37	Distinct cortical anatomy linked to subregions of the medial temporal lobe revealed by intrinsic functional connectivity. <i>Journal of Neurophysiology</i> , 2008 , 100, 129-39	3.2	371
36	Episodic simulation of future events: concepts, data, and applications. <i>Annals of the New York Academy of Sciences</i> , 2008 , 1124, 39-60	6.5	515
35	The brain's default network: anatomy, function, and relevance to disease. <i>Annals of the New York Academy of Sciences</i> , 2008 , 1124, 1-38	6.5	6450
34	Remembering the past to imagine the future: the prospective brain. <i>Nature Reviews Neuroscience</i> , 2007 , 8, 657-61	13.5	1485
33	Open Access Series of Imaging Studies (OASIS): cross-sectional MRI data in young, middle aged, nondemented, and demented older adults. <i>Journal of Cognitive Neuroscience</i> , 2007 , 19, 1498-507	3.1	952
32	Prospection and the brain. <i>Behavioral and Brain Sciences</i> , 2007 , 30, 318-319	0.9	5
31	Self-projection and the brain. <i>Trends in Cognitive Sciences</i> , 2007 , 11, 49-57	14	1962
30	Disruption of large-scale brain systems in advanced aging. <i>Neuron</i> , 2007 , 56, 924-35	13.9	1171
29	Unrest at rest: default activity and spontaneous network correlations. <i>NeuroImage</i> , 2007 , 37, 1091-6; discussion 1097-9	7.9	434
28	Coherent spontaneous activity identifies a hippocampal-parietal memory network. <i>Journal of Neurophysiology</i> , 2006 , 96, 3517-31	3.2	813
27	Cortical Surface Shape Analysis Based on Spherical Wavelet Transformation. <i>IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops</i> , 2006 , 2006,	1.3	1
26	An automated labeling system for subdividing the human cerebral cortex on MRI scans into gyral based regions of interest. <i>NeuroImage</i> , 2006 , 31, 968-80	7.9	6799
25	Functional-anatomic correlates of individual differences in memory. <i>Neuron</i> , 2006 , 51, 263-74	13.9	98
24	Parietal lobe contributions to episodic memory retrieval. <i>Trends in Cognitive Sciences</i> , 2005 , 9, 445-53	14	1194
23	Molecular, structural, and functional characterization of Alzheimer's disease: evidence for a relationship between default activity, amyloid, and memory. <i>Journal of Neuroscience</i> , 2005 , 25, 7709-17	6.6	1550
22	The potion's magic. <i>Neuron</i> , 2004 , 42, 526-7	13.9	2
21	Memory and executive function in aging and AD: multiple factors that cause decline and reserve factors that compensate. <i>Neuron</i> , 2004 , 44, 195-208	13.9	1128
20	Functional-anatomic correlates of remembering and knowing. <i>NeuroImage</i> , 2004 , 21, 1337-49	7.9	374

19	A unified approach for morphometric and functional data analysis in young, old, and demented adults using automated atlas-based head size normalization: reliability and validation against manual measurement of total intracranial volume. <i>NeuroImage</i> , 2004 , 23, 724-38	7.9	905
18	Imaging of Alzheimer's Disease. <i>Journal of Neuroimaging</i> , 2003 , 13, 199-214	2.8	38
17	The hemodynamic inverse problem: making inferences about neural activity from measured MRI signals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 2177-9	11.5	31
16	Functional deactivations: change with age and dementia of the Alzheimer type. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 14504-9	11.5	602
15	Imaging of Alzheimer's Disease 2003 , 13, 199		3
14	Neural correlates of episodic retrieval success. <i>NeuroImage</i> , 2000 , 12, 276-86	7.9	240
13	Building memories: remembering and forgetting of verbal experiences as predicted by brain activity. <i>Science</i> , 1998 , 281, 1188-91	33.3	1186
12	Functional MRI studies of word-stem completion: reliability across laboratories and comparison to blood flow imaging with PET. <i>Human Brain Mapping</i> , 1998 , 6, 203-15	5.9	99
11	Event-related fMRI and the hemodynamic response. <i>Human Brain Mapping</i> , 1998 , 6, 373-7	5.9	207
10	Event-related fMRI and the hemodynamic response 1998 , 6, 373		8
9	Common Blood Flow Changes across Visual Tasks: I. Increases in Subcortical Structures and Cerebellum but Not in Nonvisual Cortex. <i>Journal of Cognitive Neuroscience</i> , 1997 , 9, 624-47	3.1	139
8	Common Blood Flow Changes across Visual Tasks: II. Decreases in Cerebral Cortex. <i>Journal of Cognitive Neuroscience</i> , 1997 , 9, 648-63	3.1	1462
7	Searching for activations that generalize over tasks. <i>Human Brain Mapping</i> , 1997 , 5, 317-22	5.9	59
6	Selective averaging of rapidly presented individual trials using fMRI. <i>Human Brain Mapping</i> , 1997 , 5, 329-40	5.9	719
5	Functional anatomic studies of memory retrieval for auditory words and visual pictures. <i>Journal of Neuroscience</i> , 1996 , 16, 6219-35	6.6	346
4	Situating the Left-Lateralized Language Network in the Broader Organization of Multiple Specialized Large-Scale Distributed Networks		7
3	The Detailed Organization of the Human Cerebellum Estimated by Intrinsic Functional Connectivity Within the Individual		3
2	Macroscale Cortical Organization and a Default-Like Transmodal Apex Network in the Marmoset Monkey		5

