Randy L Buckner

List of Publications by Year
in descending order

141 papers	85,571 citations	4146 87 h-index	11939 134 g-index
160 all docs	160 docs citations	160 times ranked	48272 citing authors

#	Article	IF	Citations
1	An automated labeling system for subdividing the human cerebral cortex on MRI scans into gyral based regions of interest. NeuroImage, 2006, 31, 968-980.	4.2	10,125
2	The Brain's Default Network. Annals of the New York Academy of Sciences, 2008, 1124, 1-38.	3.8	8,109
3	The organization of the human cerebral cortex estimated by intrinsic functional connectivity. Journal of Neurophysiology, 2011, 106, 1125-1165.	1.8	6,420
4	The organization of the human cerebellum estimated by intrinsic functional connectivity. Journal of Neurophysiology, 2011, 106, 2322-2345.	1.8	3,788
5	Toward discovery science of human brain function. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4734-4739.	7.1	2,703
6	Cortical Hubs Revealed by Intrinsic Functional Connectivity: Mapping, Assessment of Stability, and Relation to Alzheimer's Disease. Journal of Neuroscience, 2009, 29, 1860-1873.	3.6	2,576
7	Self-projection and the brain. Trends in Cognitive Sciences, 2007, 11, 49-57.	7.8	2,338
8	Functional-Anatomic Fractionation of the Brain's Default Network. Neuron, 2010, 65, 550-562.	8.1	2,333
9	The influence of head motion on intrinsic functional connectivity MRI. NeuroImage, 2012, 59, 431-438.	4.2	2,209
10	Remembering the past to imagine the future: the prospective brain. Nature Reviews Neuroscience, 2007, 8, 657-661.	10.2	1,844
11	Molecular, Structural, and Functional Characterization of Alzheimer's Disease: Evidence for a Relationship between Default Activity, Amyloid, and Memory. Journal of Neuroscience, 2005, 25, 7709-7717.	3.6	1,839
12	Common Blood Flow Changes across Visual Tasks: II. Decreases in Cerebral Cortex. Journal of Cognitive Neuroscience, 1997, 9, 648-663.	2.3	1,690
13	Intrinsic Functional Connectivity As a Tool For Human Connectomics: Theory, Properties, and Optimization. Journal of Neurophysiology, 2010, 103, 297-321.	1.8	1,667
14	Evidence for a Frontoparietal Control System Revealed by Intrinsic Functional Connectivity. Journal of Neurophysiology, 2008, 100, 3328-3342.	1.8	1,627
15	Building Memories: Remembering and Forgetting of Verbal Experiences as Predicted by Brain Activity. Science, 1998, 281, 1188-1191.	12.6	1,446
16	Disruption of Large-Scale Brain Systems in Advanced Aging. Neuron, 2007, 56, 924-935.	8.1	1,421
17	Parietal lobe contributions to episodic memory retrieval. Trends in Cognitive Sciences, 2005, 9, 445-453.	7.8	1,394
18	Open Access Series of Imaging Studies (OASIS): Cross-sectional MRI Data in Young, Middle Aged, Nondemented, and Demented Older Adults. Journal of Cognitive Neuroscience, 2007, 19, 1498-1507.	2.3	1,380

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19	Memory and Executive Function in Aging and AD. Neuron, 2004, 44, 195-208.	8.1	1,322
20	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. NeuroImage, 2004, 23, 724-738.	4.2	1,105
21	Mapping genomic loci implicates genes and synaptic biology in schizophrenia. Nature, 2022, 604, 502-508.	27.8	929
22	Coherent Spontaneous Activity Identifies a Hippocampal-Parietal Memory Network. Journal of Neurophysiology, 2006, 96, 3517-3531.	1.8	924
23	Selective averaging of rapidly presented individual trials using fMRI. Human Brain Mapping, 1997, 5, 329-340.	3.6	921
24	The Cerebellum and Cognitive Function: 25 Years of Insight from Anatomy and Neuroimaging. Neuron, 2013, 80, 807-815.	8.1	905
25	Amyloid Deposition Is Associated with Impaired Default Network Function in Older Persons without Dementia. Neuron, 2009, 63, 178-188.	8.1	899
26	Opportunities and limitations of intrinsic functional connectivity MRI. Nature Neuroscience, 2013, 16, 832-837.	14.8	821
27	Common genetic variants influence human subcortical brain structures. Nature, 2015, 520, 224-229.	27.8	772
28	The organization of the human striatum estimated by intrinsic functional connectivity. Journal of Neurophysiology, 2012, 108, 2242-2263.	1.8	696
29	The ENIGMA Consortium: large-scale collaborative analyses of neuroimaging and genetic data. Brain Imaging and Behavior, 2014, 8, 153-182.	2.1	696
30	Segregated Fronto-Cerebellar Circuits Revealed by Intrinsic Functional Connectivity. Cerebral Cortex, 2009, 19, 2485-2497.	2.9	680
31	Functional deactivations: Change with age and dementia of the Alzheimer type. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 14504-14509.	7.1	674
32	The brainâ€™s default network: updated anatomy, physiology and evolving insights. Nature Reviews Neuroscience, 2019, 20, 593-608.	10.2	652
33	Episodic Simulation of Future Events. Annals of the New York Academy of Sciences, 2008, 1124, 39-60.	3.8	647
34	Genomic Dissection of Bipolar Disorder and Schizophrenia, Including 28 Subphenotypes. Cell, 2018, 173, 1705-1715.e16.	28.9	623
35	The evolution of distributed association networks in the human brain. Trends in Cognitive Sciences, 2013, 17, 648-665.	7.8	620
36	Evidence for the Default Network's Role in Spontaneous Cognition. Journal of Neurophysiology, 2010, 104, 322-335.	1.8	561

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37	Disruption of Functional Connectivity in Clinically Normal Older Adults Harboring Amyloid Burden. Journal of Neuroscience, 2009, 29, 12686-12694.	3.6	530
38	Unrest at rest: Default activity and spontaneous network correlations. NeuroImage, 2007, 37, 1091-1096.	4.2	496
39	Resting-state networks link invasive and noninvasive brain stimulation across diverse psychiatric and neurological diseases. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4367-75.	7.1	486
40	Parallel Interdigitated Distributed Networks within the Individual Estimated by Intrinsic Functional Connectivity. Neuron, 2017, 95, 457-471.e5.	8.1	469
41	The genetic architecture of the human cerebral cortex. Science, 2020, 367, .	12.6	450
42	Distinct Cortical Anatomy Linked to Subregions of the Medial Temporal Lobe Revealed by Intrinsic Functional Connectivity. Journal of Neurophysiology, 2008, 100, 129-139.	1.8	432
43	Parcellating cortical functional networks in individuals. Nature Neuroscience, 2015, 18, 1853-1860.	14.8	429
44	Functional-anatomic correlates of remembering and knowing. NeuroImage, 2004, 21, 1337-1349.	4.2	405
45	Head motion during MRI acquisition reduces gray matter volume and thickness estimates. NeuroImage, 2015, 107, 107-115.	4.2	399
46	Open Access Series of Imaging Studies: Longitudinal MRI Data in Nondemented and Demented Older Adults. Journal of Cognitive Neuroscience, 2010, 22, 2677-2684.	2.3	392
47	Functional Anatomic Studies of Memory Retrieval for Auditory Words and Visual Pictures. Journal of Neuroscience, 1996, 16, 6219-6235.	3.6	371
48	The Organization of Local and Distant Functional Connectivity in the Human Brain. PLoS Computational Biology, 2010, 6, e1000808.	3.2	362
49	Functional Specialization and Flexibility in Human Association Cortex. Cerebral Cortex, 2015, 25, 3654-3672.	2.9	361
50	An open science resource for establishing reliability and reproducibility in functional connectomics. Scientific Data, 2014, 1, 140049.	5.3	349
51	Reconfigurable task-dependent functional coupling modes cluster around a core functional architecture. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130526.	4.0	342
52	Evidence from intrinsic activity that asymmetry of the human brain is controlled by multiple factors. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20499-20503.	7.1	333
53	Disruption of Cortical Association Networks in Schizophrenia and Psychotic Bipolar Disorder. JAMA Psychiatry, 2014, 71, 109.	11.0	332
54	The Role of the Hippocampus in Prediction and Imagination. Annual Review of Psychology, 2010, 61, 27-48.	17.7	330

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55	Brain Genomics Superstruct Project initial data release with structural, functional, and behavioral measures. Scientific Data, 2015, 2, 150031.	5.3	318
56	Amyloidâ€Î²2 associated cortical thinning in clinically normal elderly. Annals of Neurology, 2011, 69, 1032-1042.	5.3	306
57	Event-related fMRI and the hemodynamic response. Human Brain Mapping, 1998, 6, 373-377.	3.6	299
58	Extending the Human Connectome Project across ages: Imaging protocols for the Lifespan Development and Aging projects. NeuroImage, 2018, 183, 972-984.	4.2	290
59	Default Mode of Brain Function in Monkeys. Journal of Neuroscience, 2011, 31, 12954-12962.	3.6	278
60	Neurobiological basis of head motion in brain imaging. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6058-6062.	7.1	265
61	Neural Correlates of Episodic Retrieval Success. NeuroImage, 2000, 12, 276-286.	4.2	256
62	Individual Differences in Amygdala-Medial Prefrontal Anatomy Link Negative Affect, Impaired Social Functioning, and Polygenic Depression Risk. Journal of Neuroscience, 2012, 32, 18087-18100.	3.6	250
63	Novel genetic loci associated with hippocampal volume. Nature Communications, 2017, 8, 13624.	12.8	250
64	The serendipitous discovery of the brain's default network. NeuroImage, 2012, 62, 1137-1145.	4.2	243
65	Interrogating the Genetic Determinants of Touretteâ€™s Syndrome and Other Tic Disorders Through Genome-Wide Association Studies. American Journal of Psychiatry, 2019, 176, 217-227.	7.2	242
66	Estimates of segregation and overlap of functional connectivity networks in the human cerebral cortex. NeuroImage, 2014, 88, 212-227.	4.2	220
67	Novel genetic loci underlying human intracranial volume identified through genome-wide association. Nature Neuroscience, 2016, 19, 1569-1582.	14.8	213
68	MGHâ€“USC Human Connectome Project datasets with ultra-high b-value diffusion MRI. NeuroImage, 2016, 124, 1108-1114.	4.2	209
69	Genetic architecture of subcortical brain structures in 38,851 individuals. Nature Genetics, 2019, 51, 1624-1636.	21.4	192
70	Transcriptional profiles of supragranular-enriched genes associate with corticocortical network architecture in the human brain. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E469-78.	7.1	190
71	The Lifespan Human Connectome Project in Aging: An overview. NeuroImage, 2019, 185, 335-348.	4.2	186
72	The Lifespan Human Connectome Project in Development: A large-scale study of brain connectivity development in 5â€“21 year olds. NeuroImage, 2018, 183, 456-468.	4.2	184

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73	Common Blood Flow Changes across Visual Tasks: I. Increases in Subcortical Structures and Cerebellum but Not in Nonvisual Cortex. Journal of Cognitive Neuroscience, 1997, 9, 624-647.	2.3	176
74	ENIGMA and the individual: Predicting factors that affect the brain in 35 countries worldwide. NeuroImage, 2017, 145, 389-408.	4.2	173
75	Correlated Low-Frequency BOLD Fluctuations in the Resting Human Brain Are Modulated by Recent Experience in Category-Preferential Visual Regions. Cerebral Cortex, 2010, 20, 1997-2006.	2.9	167
76	Polygenic risk of Alzheimer disease is associated with early- and late-life processes. Neurology, 2016, 87, 481-488.	1.1	159
77	Opposing Brain Differences in 16p11.2 Deletion and Duplication Carriers. Journal of Neuroscience, 2014, 34, 11199-11211.	3.6	149
78	Multiple Brain Markers are Linked to Age-Related Variation in Cognition. Cerebral Cortex, 2016, 26, 1388-1400.	2.9	146
79	Cortical thickness across the lifespan: Data from 17,075 healthy individuals aged 3â€“90â€‰years. Human Brain Mapping, 2022, 43, 431-451.	3.6	143
80	Gray matter myelination of 1555 human brains using partial volume corrected MRI images. NeuroImage, 2015, 105, 473-485.	4.2	141
81	The brain's default network: origins and implications for the study of psychosis. Dialogues in Clinical Neuroscience, 2013, 15, 351-358.	3.7	139
82	A ten-year follow-up of a study of memory for the attack of September 11, 2001: Flashbulb memories and memories for flashbulb events.. Journal of Experimental Psychology: General, 2015, 144, 604-623.	2.1	133
83	Parallel distributed networks dissociate episodic and social functions within the individual. Journal of Neurophysiology, 2020, 123, 1144-1179.	1.8	129
84	Situating the left-lateralized language network in the broader organization of multiple specialized large-scale distributed networks. Journal of Neurophysiology, 2020, 124, 1415-1448.	1.8	124
85	Heritability analysis with repeat measurements and its application to resting-state functional connectivity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5521-5526.	7.1	122
86	Functional Specialization in the Human Brain Estimated By Intrinsic Hemispheric Interaction. Journal of Neuroscience, 2014, 34, 12341-12352.	3.6	120
87	Focal Pontine Lesions Provide Evidence That Intrinsic Functional Connectivity Reflects Polysynaptic Anatomical Pathways. Journal of Neuroscience, 2011, 31, 15065-15071.	3.6	118
88	Functional MRI studies of word-stem completion: Reliability across laboratories and comparison to blood flow imaging with PET. Human Brain Mapping, 1998, 6, 203-215.	3.6	116
89	Functional-Anatomic Correlates of Individual Differences in Memory. Neuron, 2006, 51, 263-274.	8.1	116
90	Individual Differences in Cognitive Control Circuit Anatomy Link Sensation Seeking, Impulsivity, and Substance Use. Journal of Neuroscience, 2016, 36, 4038-4049.	3.6	114

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91	Parallel distributed networks resolved at high resolution reveal close juxtaposition of distinct regions. Journal of Neurophysiology, 2019, 121, 1513-1534.	1.8	113
92	Prospective motion correction with volumetric navigators (vNavs) reduces the bias and variance in brain morphometry induced by subject motion. NeuroImage, 2016, 127, 11-22.	4.2	109
93	Cerebellar asymmetry and its relation to cerebral asymmetry estimated by intrinsic functional connectivity. Journal of Neurophysiology, 2013, 109, 46-57.	1.8	98
94	Localization of focal epileptic discharges using functional connectivity magnetic resonance imaging. Journal of Neurosurgery, 2011, 114, 1693-1697.	1.6	80
95	Macroscale cortical organization and a default-like apex transmodal network in the marmoset monkey. Nature Communications, 2019, 10, 1976.	12.8	76
96	Human functional connectivity: New tools, unresolved questions. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10769-10770.	7.1	73
97	Subcortical volumes across the lifespan: Data from 18,605 healthy individuals aged 3â€“90â€‰years. Human Brain Mapping, 2022, 43, 452-469.	3.6	72
98	The Human Ortholog of Acid-Sensing Ion Channel Gene ASIC1a Is Associated With Panic Disorder and Amygdala Structure and Function. Biological Psychiatry, 2014, 76, 902-910.	1.3	71
99	Reliability correction for functional connectivity: Theory and implementation. Human Brain Mapping, 2015, 36, 4664-4680.	3.6	71
100	Aberrant White Matter Microstructure in Children with 16p11.2 Deletions. Journal of Neuroscience, 2014, 34, 6214-6223.	3.6	70
101	The detailed organization of the human cerebellum estimated by intrinsic functional connectivity within the individual. Journal of Neurophysiology, 2021, 125, 358-384.	1.8	70
102	Massively expedited genome-wide heritability analysis (MEGHA). Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2479-2484.	7.1	69
103	Searching for activations that generalize over tasks. , 1997, 5, 317-322.		68
104	Failure to Modulate Attentional Control in Advanced Aging Linked to White Matter Pathology. Cerebral Cortex, 2012, 22, 1038-1051.	2.9	68
105	Dopamine D ₁ signaling organizes network dynamics underlying working memory. Science Advances, 2016, 2, e1501672.	10.3	59
106	Accelerated decline in white matter integrity in clinically normal individuals at risk for Alzheimer's disease. Neurobiology of Aging, 2016, 42, 177-188.	3.1	57
107	Neural correlates of dueling affective reactions to win-win choices. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10978-10983.	7.1	56
108	Quantifying the Effects of 16p11.2 Copy Number Variants on Brain Structure: A Multisite Genetic-First Study. Biological Psychiatry, 2018, 84, 253-264.	1.3	56

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109	Morphometricity as a measure of the neuroanatomical signature of a trait. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5749-56.	7.1	53
110	<scp>Megaâ€analysis</scp> methods in <scp>ENIGMA</scp>: The experience of the generalized anxiety disorder working group. Human Brain Mapping, 2022, 43, 255-277.	3.6	51
111	Dedifferentiation of caudate functional connectivity and striatal dopamine transporter density predict memory change in normal aging. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10160-10165.	7.1	49
112	Global White Matter Diffusion Characteristics Predict Longitudinal Cognitive Change Independently of Amyloid Status in Clinically Normal Older Adults. Cerebral Cortex, 2019, 29, 1251-1262.	2.9	47
113	Imaging of Alzheimer's Disease. Journal of Neuroimaging, 2003, 13, 199-214.	2.0	45
114	Borders, map clusters, and supra-areal organization in visual cortex. NeuroImage, 2014, 93, 292-297.	4.2	42
115	Functional Connectivity of the Macaque Posterior Parahippocampal Cortex. Journal of Neurophysiology, 2010, 103, 793-800.	1.8	40
116	Reciprocal white matter alterations due to 16p11.2 chromosomal deletions versus duplications. Human Brain Mapping, 2016, 37, 2833-2848.	3.6	37
117	The hemodynamic inverse problem: Making inferences about neural activity from measured MRI signals. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 2177-2179.	7.1	36
118	Characterizing cerebral hemodynamics across the adult lifespan with arterial spin labeling MRI data from the Human Connectome Project-Aging. NeuroImage, 2021, 230, 117807.	4.2	31
119	Exploring functional connectivity in fMRI via clustering. , 2009, 2009, 441-444.		28
120	Brain MR Imaging Findings and Associated Outcomes in Carriers of the Reciprocal Copy Number Variation at 16p11.2. Radiology, 2018, 286, 217-226.	7.3	27
121	Precision estimates of parallel distributed association networks: evidence for domain specialization and implications for evolution and development. Current Opinion in Behavioral Sciences, 2021, 40, 120-129.	3.9	26
122	Dopamine transporter availability in clinically normal aging is associated with individual differences in white matter integrity. Human Brain Mapping, 2016, 37, 621-631.	3.6	24
123	Cortical and subcortical brain structure in generalized anxiety disorder: findings from 28 research sites in the ENIGMA-Anxiety Working Group. Translational Psychiatry, 2021, 11, 502.	4.8	24
124	Relationship between M100 Auditory Evoked Response and Auditory Radiation Microstructure in 16p11.2 Deletion and Duplication Carriers. American Journal of Neuroradiology, 2016, 37, 1178-1184.	2.4	19
125	Sociodemographic characteristics of missing data in digital phenotyping. Scientific Reports, 2021, 11, 15408.	3.3	19
126	Effects of eight neuropsychiatric copy number variants on human brain structure. Translational Psychiatry, 2021, 11, 399.	4.8	18

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127	Heterogeneity of Cerebral White Matter Lesions and Clinical Correlates in Older Adults. Stroke, 2021, 52, 620-630.	2.0	14
128	Increased amygdala-visual cortex connectivity in youth with persecutory ideation. Psychological Medicine, 2020, 50, 273-283.	4.5	12
129	Open-source Longitudinal Sleep Analysis From Accelerometer Data (DPSleep): Algorithm Development and Validation. JMIR MHealth and UHealth, 2021, 9, e29849.	3.7	11
130	Eventâ€related fMRI and the hemodynamic response. Human Brain Mapping, 1998, 6, 373-377.	3.6	11
131	Precision estimates of macroscale network organization in the human and their relation to anatomical connectivity in the marmoset monkey. Current Opinion in Behavioral Sciences, 2021, 40, 144-152.	3.9	9
132	Prospection and the brain. Behavioral and Brain Sciences, 2007, 30, 318-319.	0.7	8
133	Fluctuations in behavior and affect in college students measured using deep phenotyping. Scientific Reports, 2022, 12, 1932.	3.3	8
134	Massachusetts Alzheimer's Disease Research Center: Progress and challenges. Alzheimer's and Dementia, 2015, 11, 1241-1245.	0.8	7
135	Cortical Surface Shape Analysis Based on Spherical Wavelet Transformation. , 2006, 2006, .		3
136	Imaging of Alzheimer's Disease. , 2003, 13, 199-214.		3
137	The Potion's Magic. Neuron, 2004, 42, 526-527.	8.1	2
138	Abnormal Auditory Mismatch Fields in Children and Adolescents With 16p11.2 Deletion and 16p11.2 Duplication. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2020, 5, 942-950.	1.5	1
139	342. Large-Scale Networks of the Human Cerebral Cortex. Biological Psychiatry, 2017, 81, S140.	1.3	0
140	Reply to Risk and Zhu: Mixed-effects modeling as a principled approach to heritability analysis with repeat measurements. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E123-E123.	7.1	0
141	3.4 CHANGES IN AMYGDALA AND HIPPOCAMPAL FUNCTIONAL CONNECTIVITY IN SUBCLINICAL PSYCHOSIS: RELATIONSHIP TO SYMPTOM PERSISTENCE, PARANOIA AND ABERRANT SALIENCE. Schizophrenia Bulletin, 2019, 45, S90-S91.	4.3	0