

Joseph H Callicott

List of Publications by Year in descending order

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114
papers

24,229
citations

13099

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114
times ranked

19378
citing authors

#	ARTICLE	IF	CITATIONS
1	The BDNF val66met Polymorphism Affects Activity-Dependent Secretion of BDNF and Human Memory and Hippocampal Function. <i>Cell</i> , 2003, 112, 257-269.	28.9	3,472
2	Effect of COMT Val ^{108/158} Met genotype on frontal lobe function and risk for schizophrenia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 6917-6922.	7.1	2,274
3	Brain-Derived Neurotrophic Factor val ⁶⁶ met Polymorphism Affects Human Memory-Related Hippocampal Activity and Predicts Memory Performance. <i>Journal of Neuroscience</i> , 2003, 23, 6690-6694.	3.6	916
4	Catechol <i>O</i> -methyltransferase val ¹⁵⁸ met genotype and individual variation in the brain response to amphetamine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 6186-6191.	7.1	891
5	The Brain-Derived Neurotrophic Factor val66met Polymorphism and Variation in Human Cortical Morphology. <i>Journal of Neuroscience</i> , 2004, 24, 10099-10102.	3.6	807
6	Neural mechanisms of genetic risk for impulsivity and violence in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 6269-6274.	7.1	793
7	Physiological Dysfunction of the Dorsolateral Prefrontal Cortex in Schizophrenia Revisited. <i>Cerebral Cortex</i> , 2000, 10, 1078-1092.	2.9	732
8	Prefrontal neurons and the genetics of schizophrenia. <i>Biological Psychiatry</i> , 2001, 50, 825-844.	1.3	708
9	Physiological Characteristics of Capacity Constraints in Working Memory as Revealed by Functional MRI. <i>Cerebral Cortex</i> , 1999, 9, 20-26.	2.9	659
10	Complexity of Prefrontal Cortical Dysfunction in Schizophrenia: More Than Up or Down. <i>American Journal of Psychiatry</i> , 2003, 160, 2209-2215.	7.2	644
11	Variation in DISC1 affects hippocampal structure and function and increases risk for schizophrenia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 8627-8632.	7.1	479
12	Neurophysiological correlates of age-related changes in human motor function. <i>Neurology</i> , 2002, 58, 630-635.	1.1	465
13	Age-related alterations in default mode network: Impact on working memory performance. <i>Neurobiology of Aging</i> , 2010, 31, 839-852.	3.1	444
14	Abnormal fMRI Response of the Dorsolateral Prefrontal Cortex in Cognitively Intact Siblings of Patients With Schizophrenia. <i>American Journal of Psychiatry</i> , 2003, 160, 709-719.	7.2	417
15	Dopaminergic modulation of cortical function in patients with Parkinson's disease. <i>Annals of Neurology</i> , 2002, 51, 156-164.	5.3	388
16	Variation in GRM3 affects cognition, prefrontal glutamate, and risk for schizophrenia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 12604-12609.	7.1	381
17	Neurophysiological correlates of age-related changes in working memory capacity. <i>Neuroscience Letters</i> , 2006, 392, 32-37.	2.1	304
18	Impact of complex genetic variation in COMT on human brain function. <i>Molecular Psychiatry</i> , 2006, 11, 867-877.	7.9	296

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19	Functional Magnetic Resonance Imaging Brain Mapping in Psychiatry: Methodological Issues Illustrated in a Study of Working Memory in Schizophrenia. <i>Neuropsychopharmacology</i> , 1998, 18, 186-196.	5.4	293
20	Genetic Variation in CACNA1C Affects Brain Circuitries Related to Mental Illness. <i>Archives of General Psychiatry</i> , 2010, 67, 939.	12.3	289
21	Interaction of COMT Val ^{108/158} /Met Genotype and Olanzapine Treatment on Prefrontal Cortical Function in Patients With Schizophrenia. <i>American Journal of Psychiatry</i> , 2004, 161, 1798-1805.	7.2	281
22	Effects of Dextroamphetamine on Cognitive Performance and Cortical Activation. <i>NeuroImage</i> , 2000, 12, 268-275.	4.2	274
23	Effect of Catechol-O-Methyltransferase val158met Genotype on Attentional Control. <i>Journal of Neuroscience</i> , 2005, 25, 5038-5045.	3.6	274
24	Allelic variation in GAD1 (GAD67) is associated with schizophrenia and influences cortical function and gene expression. <i>Molecular Psychiatry</i> , 2007, 12, 854-869.	7.9	248
25	Dysfunctional and Compensatory Prefrontal Cortical Systems, Genes and the Pathogenesis of Schizophrenia. <i>Cerebral Cortex</i> , 2007, 17, i171-i181.	2.9	237
26	A primate-specific, brain isoform of KCNH2 affects cortical physiology, cognition, neuronal repolarization and risk of schizophrenia. <i>Nature Medicine</i> , 2009, 15, 509-518.	30.7	232
27	Tolcapone Improves Cognition and Cortical Information Processing in Normal Human Subjects. <i>Neuropsychopharmacology</i> , 2007, 32, 1011-1020.	5.4	219
28	Genetic evidence implicating DARPP-32 in human frontostriatal structure, function, and cognition. <i>Journal of Clinical Investigation</i> , 2007, 117, 672-682.	8.2	205
29	Dysfunctional Prefrontal Regional Specialization and Compensation in Schizophrenia. <i>American Journal of Psychiatry</i> , 2006, 163, 1969-1977.	7.2	201
30	Genetic variation in MAOA modulates ventromedial prefrontal circuitry mediating individual differences in human personality. <i>Molecular Psychiatry</i> , 2008, 13, 313-324.	7.9	197
31	Interplay between DISC1 and GABA Signaling Regulates Neurogenesis in Mice and Risk for Schizophrenia. <i>Cell</i> , 2012, 148, 1051-1064.	28.9	196
32	Brain regions underlying response inhibition and interference monitoring and suppression. <i>European Journal of Neuroscience</i> , 2006, 23, 1658-1664.	2.6	195
33	Regionally Specific Neuronal Pathology in Untreated Patients with Schizophrenia: A Proton Magnetic Resonance Spectroscopic Imaging Study. <i>Biological Psychiatry</i> , 1998, 43, 641-648.	1.3	191
34	Neuronal pathology in the hippocampal area of patients with bipolar disorder: a study with proton magnetic resonance spectroscopic imaging. <i>Biological Psychiatry</i> , 2003, 53, 906-913.	1.3	191
35	Is Gray Matter Volume an Intermediate Phenotype for Schizophrenia? A Voxel-Based Morphometry Study of Patients with Schizophrenia and Their Healthy Siblings. <i>Biological Psychiatry</i> , 2008, 63, 465-474.	1.3	179
36	Epistasis between catechol- <i>O</i> -methyltransferase and type II metabotropic glutamate receptor 3 genes on working memory brain function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 12536-12541.	7.1	175

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37	Altered Cortical Network Dynamics. Archives of General Psychiatry, 2011, 68, 1207.	12.3	161
38	Genetic variation in AKT1 is linked to dopamine-associated prefrontal cortical structure and function in humans. Journal of Clinical Investigation, 2008, 118, 2200-8.	8.2	159
39	The effect of treatment with antipsychotic drugs on brain N-acetylaspartate measures in patients with schizophrenia. Biological Psychiatry, 2001, 49, 39-46.	1.3	158
40	The Relationship between Dorsolateral Prefrontal Neuronal N-Acetylaspartate and Evoked Release of Striatal Dopamine in Schizophrenia. Neuropsychopharmacology, 2000, 22, 125-132.	5.4	151
41	Specific Relationship Between Prefrontal Neuronal N-Acetylaspartate and Activation of the Working Memory Cortical Network in Schizophrenia. American Journal of Psychiatry, 2000, 157, 26-33.	7.2	148
42	Investigation of Anatomical Thalamo-Cortical Connectivity and fMRI Activation in Schizophrenia. Neuropsychopharmacology, 2012, 37, 499-507.	5.4	133
43	Catechol-O-Methyltransferase Val158Met Modulation of Prefrontal/Parietal Striatal Brain Systems during Arithmetic and Temporal Transformations in Working Memory. Journal of Neuroscience, 2007, 27, 13393-13401.	3.6	132
44	Hippocampal N-acetyl aspartate in unaffected siblings of patients with schizophrenia: a possible intermediate neurobiological phenotype. Biological Psychiatry, 1998, 44, 941-950.	1.3	131
45	The G72/G30 Gene Complex and Cognitive Abnormalities in Schizophrenia. Neuropsychopharmacology, 2006, 31, 2022-2032.	5.4	127
46	Impact of interacting functional variants in COMT on regional gray matter volume in human brain. NeuroImage, 2009, 45, 44-51.	4.2	120
47	Common Pattern of Cortical Pathology in Childhood-Onset and Adult-Onset Schizophrenia as Identified by Proton Magnetic Resonance Spectroscopic Imaging. American Journal of Psychiatry, 1998, 155, 1376-1383.	7.2	114
48	Evidence That Altered Amygdala Activity in Schizophrenia Is Related to Clinical State and Not Genetic Risk. American Journal of Psychiatry, 2009, 166, 216-225.	7.2	113
49	Biological Validation of Increased Schizophrenia Risk With NRG1, ERBB4, and AKT1 Epistasis via Functional Neuroimaging in Healthy Controls. Archives of General Psychiatry, 2010, 67, 991.	12.3	113
50	Selective Relationship Between Prefrontal N-Acetylaspartate Measures and Negative Symptoms in Schizophrenia. American Journal of Psychiatry, 2000, 157, 1646-1651.	7.2	108
51	False positives in imaging genetics. NeuroImage, 2008, 40, 655-661.	4.2	107
52	The relationship between dorsolateral prefrontal N-acetylaspartate measures and striatal dopamine activity in schizophrenia. Biological Psychiatry, 1999, 45, 660-667.	1.3	106
53	Interindividual Differences in Functional Interactions among Prefrontal, Parietal and Parahippocampal Regions during Working Memory. Cerebral Cortex, 2003, 13, 1352-1361.	2.9	100
54	Allelic Variation in RGS4 Impacts Functional and Structural Connectivity in the Human Brain. Journal of Neuroscience, 2007, 27, 1584-1593.	3.6	98

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55	Intermediate phenotypes in schizophrenia genetics redux: is it a no brainer?. <i>Molecular Psychiatry</i> , 2008, 13, 233-238.	7.9	97
56	Functional Polymorphisms in PRODH Are Associated with Risk and Protection for Schizophrenia and Fronto-Striatal Structure and Function. <i>PLoS Genetics</i> , 2008, 4, e1000252.	3.5	94
57	Evidence of statistical epistasis between DISC1, CIT and NDEL1 impacting risk for schizophrenia: biological validation with functional neuroimaging. <i>Human Genetics</i> , 2010, 127, 441-452.	3.8	93
58	Cortical Systems Associated with Covert Music Rehearsal. <i>NeuroImage</i> , 2002, 16, 901-908.	4.2	87
59	fMRI Applications in Schizophrenia Research. <i>NeuroImage</i> , 1996, 4, S118-S126.	4.2	86
60	Hemispheric control of motor function: a whole brain echo planar fMRI study. <i>Psychiatry Research - Neuroimaging</i> , 1998, 83, 7-22.	1.8	86
61	Association of the Ser ⁷⁰⁴ Cys DISC1 polymorphism with human hippocampal formation gray matter and function during memory encoding. <i>European Journal of Neuroscience</i> , 2008, 28, 2129-2136.	2.6	86
62	Abnormal functional lateralization of the sensorimotor cortex in patients with schizophrenia. <i>NeuroReport</i> , 1997, 8, 2977-2984.	1.2	85
63	Age-related Alterations in Simple Declarative Memory and the Effect of Negative Stimulus Valence. <i>Journal of Cognitive Neuroscience</i> , 2009, 21, 1920-1933.	2.3	84
64	Prefrontal cognitive systems in schizophrenia : Towards human genetic brain mechanisms. <i>Cognitive Neuropsychiatry</i> , 2009, 14, 277-298.	1.3	80
65	Working Memory Deficits and Levels of N-Acetylaspartate in Patients With Schizophreniform Disorder. <i>American Journal of Psychiatry</i> , 2003, 160, 483-489.	7.2	73
66	Handedness, heritability, neurocognition and brain asymmetry in schizophrenia. <i>Brain</i> , 2010, 133, 3113-3122.	7.6	71
67	Modulatory Effects of Modafinil on Neural Circuits Regulating Emotion and Cognition. <i>Neuropsychopharmacology</i> , 2010, 35, 2101-2109.	5.4	70
68	Reproducibility of Proton Magnetic Resonance Spectroscopic Imaging in Patients with Schizophrenia. <i>Neuropsychopharmacology</i> , 1998, 18, 1-9.	5.4	69
69	Functional lateralization of the sensorimotor cortex in patients with schizophrenia: effects of treatment with olanzapine. <i>Biological Psychiatry</i> , 2004, 56, 190-197.	1.3	69
70	Dissociating the effects of Sternberg working memory demands in prefrontal cortex. <i>Psychiatry Research - Neuroimaging</i> , 2007, 154, 103-114.	1.8	69
71	Neural Correlates of Probabilistic Category Learning in Patients with Schizophrenia. <i>Journal of Neuroscience</i> , 2009, 29, 1244-1254.	3.6	69
72	The evolutionarily conserved G protein-coupled receptor SREB2/GPR85 influences brain size, behavior, and vulnerability to schizophrenia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 6133-6138.	7.1	67

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73	Genetic Modulation of GABA Levels in the Anterior Cingulate Cortex by GAD1 and COMT. <i>Neuropsychopharmacology</i> , 2010, 35, 1708-1717.	5.4	66
74	Automated Quality Assessment of Structural Magnetic Resonance Brain Images Based on a Supervised Machine Learning Algorithm. <i>Frontiers in Neuroinformatics</i> , 2016, 10, 52.	2.5	66
75	Instability of Prefrontal Signal Processing in Schizophrenia. <i>American Journal of Psychiatry</i> , 2006, 163, 1960-1968.	7.2	56
76	Characteristics of the Cation Cotransporter NKCC1 in Human Brain: Alternate Transcripts, Expression in Development, and Potential Relationships to Brain Function and Schizophrenia. <i>Journal of Neuroscience</i> , 2014, 34, 4929-4940.	3.6	54
77	Prefrontal dysfunction in schizophrenia controlling for COMT Val158Met genotype and working memory performance. <i>Psychiatry Research - Neuroimaging</i> , 2006, 147, 221-226.	1.8	53
78	Effective connectivity of AKT1-mediated dopaminergic working memory networks and pharmacogenetics of anti-dopaminergic treatment. <i>Brain</i> , 2012, 135, 1436-1445.	7.6	53
79	Altered Hippocampal-Parahippocampal Function During Stimulus Encoding. <i>JAMA Psychiatry</i> , 2014, 71, 236.	11.0	53
80	Association of a Schizophrenia-Risk Nonsynonymous Variant With Putamen Volume in Adolescents. <i>JAMA Psychiatry</i> , 2019, 76, 435.	11.0	51
81	Evidence for a possible association of neurotrophin receptor (NTRK-3) gene polymorphisms with hippocampal function and schizophrenia. <i>Neurobiology of Disease</i> , 2009, 34, 518-524.	4.4	46
82	Altered Cerebral Response During Cognitive Control: A Potential Indicator of Genetic Liability for Schizophrenia. <i>Neuropsychopharmacology</i> , 2013, 38, 846-853.	5.4	46
83	Catechol-O-Methyltransferase Valine158Methionine Polymorphism Modulates Brain Networks Underlying Working Memory Across Adulthood. <i>Biological Psychiatry</i> , 2009, 66, 540-548.	1.3	45
84	fMRI evidence for functional epistasis between COMT and RGS4. <i>Molecular Psychiatry</i> , 2007, 12, 893-895.	7.9	41
85	Attacking Heterogeneity in Schizophrenia by Deriving Clinical Subgroups From Widely Available Symptom Data. <i>Schizophrenia Bulletin</i> , 2018, 44, 101-113.	4.3	41
86	BDNF modulates normal human hippocampal ageing. <i>Molecular Psychiatry</i> , 2010, 15, 116-118.	7.9	40
87	Neuropsychiatric dynamics: the study of mental illness using functional magnetic resonance imaging. <i>European Journal of Radiology</i> , 1999, 30, 95-104.	2.6	38
88	Seeking Optimal Region-Of-Interest (ROI) Single-Value Summary Measures for fMRI Studies in Imaging Genetics. <i>PLoS ONE</i> , 2016, 11, e0151391.	2.5	38
89	Epistatic interactions of AKT1 on human medial temporal lobe biology and pharmacogenetic implications. <i>Molecular Psychiatry</i> , 2012, 17, 1007-1016.	7.9	37
90	Impact of the Brain-Derived Neurotrophic Factor Val66Met Polymorphism on Levels of Hippocampal N-Acetyl-Aspartate Assessed by Magnetic Resonance Spectroscopic Imaging at 3 Tesla. <i>Biological Psychiatry</i> , 2008, 64, 856-862.	1.3	36

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91	Schizophrenia polygenic risk score predicts mnemonic hippocampal activity. <i>Brain</i> , 2018, 141, 1218-1228.	7.6	36
92	An expanded role for functional neuroimaging in schizophrenia. <i>Current Opinion in Neurobiology</i> , 2003, 13, 256-260.	4.2	34
93	Interactive Effects of DAOA (G72) and Catechol-O-Methyltransferase on Neurophysiology in Prefrontal Cortex. <i>Biological Psychiatry</i> , 2011, 69, 1006-1008.	1.3	33
94	Differential Effects of Common Variants in <i>SCN2A</i> on General Cognitive Ability, Brain Physiology, and messenger RNA Expression in Schizophrenia Cases and Control Individuals. <i>JAMA Psychiatry</i> , 2014, 71, 647.	11.0	33
95	Sex differences in verbal working memory performance emerge at very high loads of common neuroimaging tasks. <i>Brain and Cognition</i> , 2017, 113, 56-64.	1.8	32
96	Late-Onset Alzheimer's Disease Polygenic Risk Profile Score Predicts Hippocampal Function. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2017, 2, 673-679.	1.5	32
97	Enuresis as a premorbid developmental marker of schizophrenia. <i>Brain</i> , 2008, 131, 2489-2498.	7.6	31
98	DISC1 and SLC12A2 interaction affects human hippocampal function and connectivity. <i>Journal of Clinical Investigation</i> , 2013, 123, 2961-2964.	8.2	30
99	WWC1 Genotype Modulates Age-Related Decline in Episodic Memory Function Across the Adult Life Span. <i>Biological Psychiatry</i> , 2014, 75, 693-700.	1.3	28
100	Normal aging modulates prefrontoparietal networks underlying multiple memory processes. <i>European Journal of Neuroscience</i> , 2012, 36, 3559-3567.	2.6	26
101	Effects of Neuregulin 3 Genotype on Human Prefrontal Cortex Physiology. <i>Journal of Neuroscience</i> , 2014, 34, 1051-1056.	3.6	25
102	Genetic Variation in FGF20 Modulates Hippocampal Biology. <i>Journal of Neuroscience</i> , 2010, 30, 5992-5997.	3.6	21
103	No Effect of a Common Allelic Variant in the Reelin Gene on Intermediate Phenotype Measures of Brain Structure, Brain Function, and Gene Expression. <i>Biological Psychiatry</i> , 2010, 68, 105-107.	1.3	20
104	Effects of ZNF804A on neurophysiologic measures of cognitive control. <i>Molecular Psychiatry</i> , 2013, 18, 852-854.	7.9	20
105	Effect of Schizophrenia Risk-Associated Alleles in SREB2 (GPR85) on Functional MRI Phenotypes in Healthy Volunteers. <i>Neuropsychopharmacology</i> , 2013, 38, 341-349.	5.4	19
106	Brain Imaging as an Approach to Phenotype Characterization for Genetic Studies. , 2003, 77, 227-248.		15
107	Effect of Tolcapone on Brain Activity During a Variable Attentional Control Task: A Double-Blind, Placebo-Controlled, Counter-Balanced Trial in Healthy Volunteers. <i>CNS Drugs</i> , 2013, 27, 663-673.	5.9	13
108	Interaction of childhood urbanicity and variation in dopamine genes alters adult prefrontal function as measured by functional magnetic resonance imaging (fMRI). <i>PLoS ONE</i> , 2018, 13, e0195189.	2.5	13

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109	KCNH2-3.1 mediates aberrant complement activation and impaired hippocampal-medial prefrontal circuitry associated with working memory deficits. <i>Molecular Psychiatry</i> , 2020, 25, 206-229.	7.9	13
110	Is less really more: Does a prefrontal efficiency genotype actually confer better performance when working memory becomes difficult?. <i>Cortex</i> , 2016, 74, 79-95.	2.4	11
111	Neanderthal-Derived Genetic Variation is Associated with Functional Connectivity in the Brains of Living Humans. <i>Brain Connectivity</i> , 2021, 11, 38-44.	1.7	10
112	Sequence Variation Associated with SLC12A5 Gene Expression Is Linked to Brain Structure and Function in Healthy Adults. <i>Cerebral Cortex</i> , 2019, 29, 4654-4661.	2.9	7
113	Neural Mechanisms of Genetic Risk for Impulsivity and Violence in Humans. <i>Focus (American Tj ETQq1 1 0.784314 rgBT /Overlock 10</i>	0.8	6
114	T87. THE EFFECT OF THE TRKB POLYMORPHISM AND URBAN UPBRINGING ON HIPPOCAMPAL COUPLING DURING EPISODIC MEMORY. <i>Schizophrenia Bulletin</i> , 2019, 45, S237-S237.	4.3	0