

David John Lythgoe

List of Publications by Year in descending order

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Version: 2024-02-01

109
papers

4,792
citations

117453

34
h-index

110170

64
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124
all docs

124
docs citations

124
times ranked

6637
citing authors

#	ARTICLE	IF	CITATIONS
1	Common and Distinct Neural Substrates for Pragmatic, Semantic, and Syntactic Processing of Spoken Sentences: An fMRI Study. <i>Journal of Cognitive Neuroscience</i> , 2000, 12, 321-341.	1.1	308
2	Characterization of White Matter Damage in Ischemic Leukoaraiosis with Diffusion Tensor MRI. <i>Stroke</i> , 1999, 30, 393-397.	1.0	302
3	A differential neural response in obsessive-compulsive disorder patients with washing compared with checking symptoms to disgust. <i>Psychological Medicine</i> , 2000, 30, 1037-1050.	2.7	213
4	Glutamate Dysfunction in People with Prodromal Symptoms of Psychosis: Relationship to Gray Matter Volume. <i>Biological Psychiatry</i> , 2009, 66, 533-539.	0.7	210
5	Instability of default mode network connectivity in major depression: a two-sample confirmation study. <i>Translational Psychiatry</i> , 2017, 7, e1105-e1105.	2.4	184
6	The EU-AIMS Longitudinal European Autism Project (LEAP): design and methodologies to identify and validate stratification biomarkers for autism spectrum disorders. <i>Molecular Autism</i> , 2017, 8, 24.	2.6	183
7	Anterior Cingulate Glutamate Levels Related to Clinical Status Following Treatment in First-Episode Schizophrenia. <i>Neuropsychopharmacology</i> , 2012, 37, 2515-2521.	2.8	157
8	The EU-AIMS Longitudinal European Autism Project (LEAP): clinical characterisation. <i>Molecular Autism</i> , 2017, 8, 27.	2.6	126
9	Altered Relationship Between Hippocampal Glutamate Levels and Striatal Dopamine Function in Subjects at Ultra High Risk of Psychosis. <i>Biological Psychiatry</i> , 2010, 68, 599-602.	0.7	125
10	Thalamic Glutamate Levels as a Predictor of Cortical Response During Executive Functioning in Subjects at High Risk for Psychosis. <i>Archives of General Psychiatry</i> , 2011, 68, 881.	13.8	114
11	Response to initial antipsychotic treatment in first episode psychosis is related to anterior cingulate glutamate levels: a multicentre 1H-MRS study (OPTiMiSE). <i>Molecular Psychiatry</i> , 2018, 23, 2145-2155.	4.1	113
12	Frontal GABA Levels Change during Working Memory. <i>PLoS ONE</i> , 2012, 7, e31933.	1.1	108
13	Reduced subcortical glutamate/glutamine in adults with autism spectrum disorders: a [1H]MRS study. <i>Translational Psychiatry</i> , 2013, 3, e279-e279.	2.4	106
14	Quantitative perfusion imaging in carotid artery stenosis using dynamic susceptibility contrast-enhanced magnetic resonance imaging. <i>Magnetic Resonance Imaging</i> , 2000, 18, 1-11.	1.0	101
15	Shifting brain inhibitory balance and connectivity of the prefrontal cortex of adults with autism spectrum disorder. <i>Translational Psychiatry</i> , 2017, 7, e1137-e1137.	2.4	101
16	Fronto-striatal glutamatergic compounds in compulsive and impulsive syndromes: A review of magnetic resonance spectroscopy studies. <i>Neuroscience and Biobehavioral Reviews</i> , 2015, 52, 74-88.	2.9	97
17	Effects of cannabidiol on brain excitation and inhibition systems; a randomised placebo-controlled single dose trial during magnetic resonance spectroscopy in adults with and without autism spectrum disorder. <i>Neuropsychopharmacology</i> , 2019, 44, 1398-1405.	2.8	95
18	Investigating the factors underlying adaptive functioning in autism in the EU-AIMS Longitudinal European Autism Project. <i>Autism Research</i> , 2019, 12, 645-657.	2.1	87

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19	Association of placental perfusion, as assessed by magnetic resonance imaging and uterine artery Doppler ultrasound, and its relationship to pregnancy outcome. <i>Placenta</i> , 2013, 34, 885-891.	0.7	86
20	Altered Connectivity Between Cerebellum, Visual, and Sensory-Motor Networks in Autism Spectrum Disorder: Results from the EU-AIMS Longitudinal European Autism Project. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2019, 4, 260-270.	1.1	82
21	Optimal MRI methods for direct stereotactic targeting of the subthalamic nucleus and globus pallidus. <i>European Radiology</i> , 2011, 21, 130-136.	2.3	80
22	Relationship Between Brain Glutamate Levels and Clinical Outcome in Individuals at Ultra High Risk of Psychosis. <i>Neuropsychopharmacology</i> , 2014, 39, 2891-2899.	2.8	76
23	Glutamate/glutamine and neuronal integrity in adults with ADHD: a proton MRS study. <i>Translational Psychiatry</i> , 2014, 4, e373-e373.	2.4	75
24	Mapping of cerebrovascular reactivity using bold magnetic resonance imaging. <i>Magnetic Resonance Imaging</i> , 1999, 17, 495-502.	1.0	74
25	Preventing visual field deficits from neurosurgery. <i>Neurology</i> , 2014, 83, 604-611.	1.5	67
26	Delta-9-tetrahydrocannabinol increases striatal glutamate levels in healthy individuals: implications for psychosis. <i>Molecular Psychiatry</i> , 2020, 25, 3231-3240.	4.1	62
27	Altered Medial Temporal Activation Related to Local Glutamate Levels in Subjects with Prodromal Signs of Psychosis. <i>Biological Psychiatry</i> , 2011, 69, 97-99.	0.7	59
28	Association of placental T2 relaxation times and uterine artery Doppler ultrasound measures of placental blood flow. <i>Placenta</i> , 2013, 34, 474-479.	0.7	52
29	Dopamine and Glutamate in Antipsychotic-Responsive Compared With Antipsychotic-Nonresponsive Psychosis: A Multicenter Positron Emission Tomography and Magnetic Resonance Spectroscopy Study (STRATA). <i>Schizophrenia Bulletin</i> , 2021, 47, 505-516.	2.3	51
30	Grey matter abnormalities in first-episode schizophrenia and affective psychosis. <i>British Journal of Psychiatry</i> , 2007, 191, s111-s116.	1.7	46
31	Insular and occipital changes in visual snow syndrome: a BOLD fMRI and MRS study. <i>Annals of Clinical and Translational Neurology</i> , 2020, 7, 296-306.	1.7	46
32	Prefrontal GABA levels, hippocampal resting perfusion and the risk of psychosis. <i>Neuropsychopharmacology</i> , 2018, 43, 2652-2659.	2.8	45
33	Fronto-Striatal Glutamate in Autism Spectrum Disorder and Obsessive Compulsive Disorder. <i>Neuropsychopharmacology</i> , 2017, 42, 2456-2465.	2.8	39
34	Changes in Brain Glutamate on Switching to Clozapine in Treatment-Resistant Schizophrenia. <i>Schizophrenia Bulletin</i> , 2021, 47, 662-671.	2.3	39
35	Quantitative magnetic resonance spectroscopic imaging in Parkinson's disease, progressive supranuclear palsy and multiple system atrophy. <i>European Journal of Neurology</i> , 2010, 17, 1193-1202.	1.7	37
36	Effects of cannabidiol (CBD) on brain excitation and inhibition systems in adults with and without Autism Spectrum Disorder (ASD): a single dose trial during magnetic resonance spectroscopy. <i>Translational Psychiatry</i> , 2019, 9, 313.	2.4	36

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37	Atypical Brain Asymmetry in Autism—A Candidate for Clinically Meaningful Stratification. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2021, 6, 802-812.	1.1	36
38	Fronto-striatal glutamate in children with Tourette's disorder and attention-deficit/hyperactivity disorder. <i>NeuroImage: Clinical</i> , 2017, 13, 16-23.	1.4	35
39	Longitudinal in vivo maturational changes of metabolites in the prefrontal cortex of rats exposed to polyinosinic–polycytidylic acid in utero. <i>European Neuropsychopharmacology</i> , 2015, 25, 2210-2220.	0.3	32
40	Cortical GABA in Subjects at Ultra-High Risk of Psychosis: Relationship to Negative Prodromal Symptoms. <i>International Journal of Neuropsychopharmacology</i> , 2018, 21, 114-119.	1.0	32
41	Dissecting the phenotypic heterogeneity in sensory features in autism spectrum disorder: a factor mixture modelling approach. <i>Molecular Autism</i> , 2020, 11, 67.	2.6	32
42	Pulsed arterial spin labeling perfusion imaging at 3 T: estimating the number of subjects required in common designs of clinical trials. <i>Magnetic Resonance Imaging</i> , 2011, 29, 1382-1389.	1.0	30
43	Reduced perfusion in Broca's area in developmental stuttering. <i>Human Brain Mapping</i> , 2017, 38, 1865-1874.	1.9	30
44	Frequency drift in MR spectroscopy at 3T. <i>NeuroImage</i> , 2021, 241, 118430.	2.1	28
45	In vivo Glx and Glu measurements from GABA-edited MRS at 3 T. <i>NMR in Biomedicine</i> , 2021, 34, e4245.	1.6	26
46	Hyperperfusion of Frontal White and Subcortical Gray Matter in Autism Spectrum Disorder. <i>Biological Psychiatry</i> , 2019, 85, 584-595.	0.7	24
47	N-acetyl aspartate concentration in the anterior cingulate cortex in patients with schizophrenia: A study of clinical and neuropsychological correlates and preliminary exploration of cognitive behaviour therapy effects. <i>Psychiatry Research - Neuroimaging</i> , 2010, 182, 251-260.	0.9	23
48	Glutamatergic medication in the treatment of obsessive compulsive disorder (OCD) and autism spectrum disorder (ASD) – study protocol for a randomised controlled trial. <i>Trials</i> , 2016, 17, 141.	0.7	23
49	Silent zero TE MR neuroimaging: Current state-of-the-art and future directions. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2021, 123, 73-93.	3.9	23
50	GABA _B receptor modulation of visual sensory processing in adults with and without autism spectrum disorder. <i>Science Translational Medicine</i> , 2022, 14, eabg7859.	5.8	23
51	Altered relationship between prefrontal glutamate and activation during cognitive control in people with high trait anxiety. <i>Cortex</i> , 2019, 117, 53-63.	1.1	22
52	Functional magnetic resonance spectroscopy in patients with schizophrenia and bipolar affective disorder: Glutamate dynamics in the anterior cingulate cortex during a working memory task. <i>European Neuropsychopharmacology</i> , 2019, 29, 222-234.	0.3	22
53	Anterior cingulate cortex glutamate and its association with striatal functioning during cognitive control. <i>European Neuropsychopharmacology</i> , 2018, 28, 381-391.	0.3	21
54	Temporal Profiles of Social Attention Are Different Across Development in Autistic and Neurotypical People. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2021, 6, 813-824.	1.1	21

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55	Resting state cerebral blood flow with arterial spin labeling MRI in developing human brains. <i>European Journal of Paediatric Neurology</i> , 2018, 22, 642-651.	0.7	20
56	Neuroanatomical changes in people with high schizotypy: relationship to glutamate levels. <i>Psychological Medicine</i> , 2018, 48, 1880-1889.	2.7	20
57	Effects of N-acetylcysteine on brain glutamate levels and resting perfusion in schizophrenia. <i>Psychopharmacology</i> , 2018, 235, 3045-3054.	1.5	20
58	Resting state EEG power spectrum and functional connectivity in autism: a cross-sectional analysis. <i>Molecular Autism</i> , 2022, 13, 22.	2.6	20
59	Glutamatergic hypofunction in medication-free major depression: Secondary effects of affective diagnosis and relationship to peripheral glutaminase. <i>Journal of Affective Disorders</i> , 2018, 234, 214-219.	2.0	19
60	Effects of acute ovarian hormone suppression on the human brain: An in vivo 1H MRS study. <i>Psychoneuroendocrinology</i> , 2007, 32, 1128-1132.	1.3	18
61	The response to rapid infusion of fentanyl in the human brain measured using pulsed arterial spin labelling. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2012, 25, 163-175.	1.1	18
62	Neural processing of criticism and positive comments from relatives in individuals with schizotypal personality traits. <i>World Journal of Biological Psychiatry</i> , 2013, 14, 57-70.	1.3	18
63	Striatal structure and its association with N-Acetylaspartate and glutamate in autism spectrum disorder and obsessive compulsive disorder. <i>European Neuropsychopharmacology</i> , 2018, 28, 118-129.	0.3	18
64	Aggression subtypes relate to distinct resting state functional connectivity in children and adolescents with disruptive behavior. <i>European Child and Adolescent Psychiatry</i> , 2021, 30, 1237-1249.	2.8	18
65	The effects of callous-unemotional traits and aggression subtypes on amygdala activity in response to negative faces. <i>Psychological Medicine</i> , 2022, 52, 476-484.	2.7	18
66	Glutamate levels in the anterior cingulate cortex in un-medicated first episode psychosis: a proton magnetic resonance spectroscopy study. <i>Scientific Reports</i> , 2019, 9, 8685.	1.6	17
67	Neural Correlates of Theory of Mind in Autism Spectrum Disorder, Attention-Deficit/Hyperactivity Disorder, and the Comorbid Condition. <i>Frontiers in Psychiatry</i> , 2020, 11, 544482.	1.3	16
68	Glutamatergic Agents in the Treatment of Compulsivity and Impulsivity in Child and Adolescent Psychiatry: a Systematic Review of the Literature. <i>Zeitschrift Für Kinder- Und Jugendpsychiatrie Und Psychotherapie</i> , 2018, 46, 246-263.	0.4	16
69	In vivo estimation of the flow-driven adiabatic inversion efficiency for continuous arterial spin labeling: A method using phase contrast magnetic resonance angiography. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 1291-1297.	1.9	13
70	COMPULS: design of a multicenter phenotypic, cognitive, genetic, and magnetic resonance imaging study in children with compulsive syndromes. <i>BMC Psychiatry</i> , 2016, 16, 361.	1.1	13
71	Developmental changes in fronto-striatal glutamate and their association with functioning during inhibitory control in autism spectrum disorder and obsessive compulsive disorder. <i>NeuroImage: Clinical</i> , 2021, 30, 102622.	1.4	12
72	Adolescent onset heavy cannabis use associated with significantly reduced glial but not neuronal markers and glutamate levels in the hippocampus. <i>Addiction Biology</i> , 2020, 25, e12827.	1.4	11

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73	Association between cannabinoid 1 receptor availability and glutamate levels in healthy controls and drug-free patients with first episode psychosis: a multi-modal PET and 1H-MRS study. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2021, 271, 677-687.	1.8	11
74	Neural Correlates of Duration Discrimination in Young Adults with Autism Spectrum Disorder, Attention-Deficit/Hyperactivity Disorder and Their Comorbid Presentation. <i>Frontiers in Psychiatry</i> , 2018, 9, 569.	1.3	10
75	Distinct associations between fronto-striatal glutamate concentrations and callous-unemotional traits and proactive aggression in disruptive behavior. <i>Cortex</i> , 2019, 121, 135-146.	1.1	10
76	Daily and intermittent smoking are associated with low prefrontal volume and low concentrations of prefrontal glutamate, creatine, myo-inositol, and N-acetylaspartate. <i>Addiction Biology</i> , 2021, 26, e12986.	1.4	10
77	Preference for biological motion is reduced in ASD: implications for clinical trials and the search for biomarkers. <i>Molecular Autism</i> , 2021, 12, 74.	2.6	10
78	Age-related brain deviations and aggression. <i>Psychological Medicine</i> , 2023, 53, 4012-4021.	2.7	10
79	Effect of single dose N-acetylcysteine administration on resting state functional connectivity in schizophrenia. <i>Psychopharmacology</i> , 2020, 237, 443-451.	1.5	9
80	Cannabis use in patients with early psychosis is associated with alterations in putamen and thalamic shape. <i>Human Brain Mapping</i> , 2020, 41, 4386-4396.	1.9	9
81	Neurochemical effects of oxytocin in people at clinical high risk for psychosis. <i>European Neuropsychopharmacology</i> , 2019, 29, 601-615.	0.3	8
82	Multi-modal imaging investigation of anterior cingulate cortex cytoarchitecture in neurodevelopment. <i>European Neuropsychopharmacology</i> , 2018, 28, 13-23.	0.3	7
83	Structural and functional MRI of altered brain development in a novel adolescent rat model of quinpirole-induced compulsive checking behavior. <i>European Neuropsychopharmacology</i> , 2020, 33, 58-70.	0.3	7
84	Differential sensitivity to the acute psychotomimetic effects of delta-9-tetrahydrocannabinol associated with its differential acute effects on glial function and cortisol. <i>Psychological Medicine</i> , 2022, 52, 2024-2031.	2.7	6
85	Revealing the mechanisms behind novel auditory stimuli discrimination: An evaluation of silent functional MRI using looping star. <i>Human Brain Mapping</i> , 2021, 42, 2833-2850.	1.9	6
86	Subcortical volume reduction and cortical thinning 3 months after switching to clozapine in treatment resistant schizophrenia. <i>NPJ Schizophrenia</i> , 2022, 8, 13.	2.0	6
87	Making use of longitudinal information in pattern recognition. <i>Human Brain Mapping</i> , 2016, 37, 4385-4404.	1.9	5
88	Relationship between depression, prefrontal creatine and grey matter volume. <i>Journal of Psychopharmacology</i> , 2021, 35, 1464-1472.	2.0	5
89	Rapid processing and quantitative evaluation of structural brain scans for adaptive multimodal imaging. <i>Human Brain Mapping</i> , 2022, 43, 1749-1765.	1.9	5
90	Association of cannabis with glutamatergic levels in patients with early psychosis: Evidence for altered volume striatal glutamate relationships in patients with a history of cannabis use in early psychosis. <i>Translational Psychiatry</i> , 2020, 10, 111.	2.4	3

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91	Imaging Brain Glx Dynamics in Response to Pressure Pain Stimulation: A 1H-fMRS Study. <i>Frontiers in Psychiatry</i> , 2021, 12, 681419.	1.3	3
92	Relationship between cortical glutamatergic metabolite levels and hippocampal activity in schizotypy. <i>Schizophrenia Research</i> , 2022, 240, 132-134.	1.1	2
93	Memantine treatment does not affect compulsive behavior or frontostriatal connectivity in an adolescent rat model for quinpirole-induced compulsive checking behavior. <i>Psychopharmacology</i> , 2022, 239, 2457-2470.	1.5	2
94	P.1.c.007 Frontostriatal glutamate in compulsive and impulsive syndromes: a review of MR spectroscopy studies. <i>European Neuropsychopharmacology</i> , 2014, 24, S185.	0.3	1
95	The Effects of Acute δ^9 -Tetrahydrocannabinol on Striatal Glutamatergic Function: A Proton Magnetic Resonance Spectroscopy Study. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2021, 6, 660-667.	1.1	1
96	The Cerebellum and Brainstem Reshape with Compulsive Behaviour and Symptom Severity in Autism Spectrum Disorder and Obsessive Compulsive Disorder. <i>Frontiers in Cellular Neuroscience</i> , 0, 11, .	1.8	1
97	Impaired verbal memory function is related to anterior cingulate glutamate levels in schizophrenia: findings from the STRATA study. , 2022, 8, .		1
98	Reply to: Hippocampal Glutamate Levels and Striatal Dopamine D2/3 Receptor Occupancy in Subjects at Ultra High Risk of Psychosis. <i>Biological Psychiatry</i> , 2011, 70, e3-e4.	0.7	0
99	N-acetyl aspartate concentration in the anterior cingulate cortex in patients with schizophrenia. <i>International Clinical Psychopharmacology</i> , 2011, 26, e53.	0.9	0
100	4.3 Functional Magnetic Resonance Spectroscopy in Patients With Schizophrenia. <i>Schizophrenia Bulletin</i> , 2017, 43, S5-S5.	2.3	0
101	O29. Multi-Modal Imaging Investigation of Anterior Cingulate Cortex Cytoarchitecture in Neurodevelopment. <i>Biological Psychiatry</i> , 2018, 83, S120.	0.7	0
102	O6.2. NEUROBIOLOGY OF PSYCHOMETRIC SCHIZOTYPY: INSIGHTS FROM MULTIMODAL IMAGING RESEARCH. <i>Schizophrenia Bulletin</i> , 2018, 44, S89-S90.	2.3	0
103	O3.7. EFFECT OF N-ACETYLCYSTEINE ON BRAIN GLUTAMATE LEVELS AND RESTING PERFUSION IN SCHIZOPHRENIA. <i>Schizophrenia Bulletin</i> , 2018, 44, S81-S82.	2.3	0
104	O3.4. DOES CANNABIS INDUCE PSYCHOSIS BY ALTERING GLUTAMATE SIGNALING IN THE STRIATUM?. <i>Schizophrenia Bulletin</i> , 2019, 45, S166-S167.	2.3	0
105	S170. Are Cannabis-Using and Non-Using Patients Different Groups? Evidence for Altered Volume Striatal Glutamate Relationships in Cannabis-Using Patients in Early Psychosis. <i>Biological Psychiatry</i> , 2019, 85, S363.	0.7	0
106	T139. OXYTOCIN ENHANCES NEURAL EFFICIENCY IN INFERRING OTHERS' SOCIAL EMOTIONS IN PEOPLE AT CLINICAL HIGH RISK FOR PSYCHOSIS. <i>Schizophrenia Bulletin</i> , 2020, 46, S283-S284.	2.3	0
107	Sailing in rough waters: Examining volatility of fMRI noise. <i>Magnetic Resonance Imaging</i> , 2021, 78, 69-79.	1.0	0
108	Non-Invasive measurement of the cerebral metabolic rate of oxygen using MRI in rodents. <i>Wellcome Open Research</i> , 0, 6, 109.	0.9	0

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109	The development of cognitive control in children with autism spectrum disorder or obsessive-compulsive disorder: A longitudinal fMRI study. <i>NeuroImage Reports</i> , 2021, 1, 100015.	0.5	0