

List of Publications by Citations

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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.

43 papers	1,185 citations	20 h-index	34 g-index
44 ext. papers	1,503 ext. citations	6.2 avg, IF	4.22 L-index

#	Paper	IF	Citations
43	Quantitative imaging of energy expenditure in human brain. <i>NeuroImage</i> , 2012 , 60, 2107-17	7.9	158
42	Tightly coupled brain activity and cerebral ATP metabolic rate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 6409-14	11.5	141
41	Efficient in vivo ³¹ P magnetization transfer approach for noninvasively determining multiple kinetic parameters and metabolic fluxes of ATP metabolism in the human brain. <i>Magnetic Resonance in Medicine</i> , 2007 , 57, 103-14	4.4	94
40	Myelin and axon abnormalities in schizophrenia measured with magnetic resonance imaging techniques. <i>Biological Psychiatry</i> , 2013 , 74, 451-7	7.9	74
39	In vivo evidence for cerebral bioenergetic abnormalities in schizophrenia measured using ³¹ P magnetization transfer spectroscopy. <i>JAMA Psychiatry</i> , 2014 , 71, 19-27	14.5	68
38	In vivo ³¹ P MRS of human brain at high/ultrahigh fields: a quantitative comparison of NMR detection sensitivity and spectral resolution between 4 T and 7 T. <i>Magnetic Resonance Imaging</i> , 2006 , 24, 1281-6	3.3	59
37	Redox Dysregulation in Schizophrenia Revealed by in vivo NAD ⁺ /NADH Measurement. <i>Schizophrenia Bulletin</i> , 2017 , 43, 197-204	1.3	58
36	Abnormalities in High-Energy Phosphate Metabolism in First-Episode Bipolar Disorder Measured Using P-Magnetic Resonance Spectroscopy. <i>Biological Psychiatry</i> , 2018 , 84, 797-802	7.9	45
35	ATP production rate via creatine kinase or ATP synthase in vivo: a novel superfast magnetization saturation transfer method. <i>Circulation Research</i> , 2011 , 108, 653-63	15.7	44
34	Brain lactate and pH in schizophrenia and bipolar disorder: a systematic review of findings from magnetic resonance studies. <i>Neuropsychopharmacology</i> , 2018 , 43, 1681-1690	8.7	42
33	Effects of High-Frequency Transcranial Magnetic Stimulation for Cognitive Deficit in Schizophrenia: A Meta-Analysis. <i>Frontiers in Psychiatry</i> , 2019 , 10, 135	5	28
32	In vivo proton MRS to quantify anesthetic effects of pentobarbital on cerebral metabolism and brain activity in rat. <i>Magnetic Resonance in Medicine</i> , 2009 , 62, 1385-93	4.4	28
31	Oligodendrocyte differentiation of induced pluripotent stem cells derived from subjects with schizophrenias implicate abnormalities in development. <i>Translational Psychiatry</i> , 2018 , 8, 230	8.6	25
30	Brain bioenergetics and redox state measured by P magnetic resonance spectroscopy in unaffected siblings of patients with psychotic disorders. <i>Schizophrenia Research</i> , 2017 , 187, 11-16	3.6	24
29	Frontal P3 event-related potential is related to brain glutamine/glutamate ratio measured in vivo. <i>NeuroImage</i> , 2015 , 111, 186-91	7.9	24
28	Myelin vs axon abnormalities in white matter in bipolar disorder. <i>Neuropsychopharmacology</i> , 2015 , 40, 1243-9	8.7	23
27	InVivo Brain Glycine and Glutamate Concentrations in Patients With First-Episode Psychosis Measured by Echo Time-Averaged Proton Magnetic Resonance Spectroscopy at 4T. <i>Biological Psychiatry</i> , 2018 , 83, 484-491	7.9	22

26	Creatine kinase and ATP synthase reaction rates in human frontal lobe measured by ^{31}P magnetization transfer spectroscopy at 4T. <i>Magnetic Resonance Imaging</i> , 2013 , 31, 102-8	3.3	22
25	Association of Age, Antipsychotic Medication, and Symptom Severity in Schizophrenia With Proton Magnetic Resonance Spectroscopy Brain Glutamate Level: A Mega-analysis of Individual Participant-Level Data. <i>JAMA Psychiatry</i> , 2021 , 78, 667-681	14.5	21
24	Phosphorus magnetic resonance spectroscopy studies in schizophrenia. <i>Journal of Psychiatric Research</i> , 2015 , 68, 157-66	5.2	20
23	Water and metabolite transverse T2 relaxation time abnormalities in the white matter in schizophrenia. <i>Schizophrenia Research</i> , 2012 , 137, 241-5	3.6	20
22	Posttraumatic Stress Disorder: Structural Characterization with 3-T MR Imaging. <i>Radiology</i> , 2016 , 280, 537-44	20.5	19
21	Probing myelin and axon abnormalities separately in psychiatric disorders using MRI techniques. <i>Frontiers in Integrative Neuroscience</i> , 2013 , 7, 24	3.2	18
20	Regional GABA Concentrations Modulate Inter-network Resting-state Functional Connectivity. <i>Cerebral Cortex</i> , 2019 , 29, 1607-1618	5.1	18
19	Antidepressant Effects of Repetitive Transcranial Magnetic Stimulation Over Prefrontal Cortex of Parkinson's Disease Patients With Depression: A Meta-Analysis. <i>Frontiers in Psychiatry</i> , 2018 , 9, 769	5	17
18	Transcranial Direct Current Stimulation Improves Cognitive Function in Mild to Moderate Alzheimer Disease: A Meta-Analysis. <i>Alzheimer Disease and Associated Disorders</i> , 2019 , 33, 170-178	2.5	16
17	Mitochondrial dysfunction, oxidative stress, neuroinflammation, and metabolic alterations in the progression of Alzheimer's disease: A meta-analysis of in vivo magnetic resonance spectroscopy studies. <i>Ageing Research Reviews</i> , 2021 , 72, 101503	12	10
16	Simultaneous measurement of glucose blood-brain transport constants and metabolic rate in rat brain using in-vivo ^1H MRS. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012 , 32, 1778-87	7.3	9
15	Role of glia in prefrontal white matter abnormalities in first episode psychosis or mania detected by diffusion tensor spectroscopy. <i>Schizophrenia Research</i> , 2019 , 209, 64-71	3.6	6
14	Rapid and simultaneous measurement of phosphorus metabolite pool size ratio and reaction kinetics of enzymes in vivo. <i>Journal of Magnetic Resonance Imaging</i> , 2018 , 47, 210-221	5.6	5
13	Relayed magnetization transfer from nuclear Overhauser effect and chemical exchange observed by in vivo ^{31}P MRS in rat brain. <i>Magnetic Resonance Imaging</i> , 2012 , 30, 716-21	3.3	5
12	The structural basis for interhemispheric functional connectivity: Evidence from individuals with agenesis of the corpus callosum. <i>NeuroImage: Clinical</i> , 2020 , 28, 102425	5.3	5
11	Reduced adaptation of glutamatergic stress response is associated with pessimistic expectations in depression. <i>Nature Communications</i> , 2021 , 12, 3166	17.4	4
10	Repeatability and reliability of GABA measurements with magnetic resonance spectroscopy in healthy young adults. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 2359-2369	4.4	3
9	N-acetylaspartate concentration in psychotic disorders: T2-relaxation effects. <i>Schizophrenia Research</i> , 2021 , 232, 42-44	3.6	2

8	Mapping Disease Course Across the Mood Disorder Spectrum Through a Research Domain Criteria Framework. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2021 , 6, 706-715	3.4	2
7	Bioenergetics and abnormal functional connectivity in psychotic disorders. <i>Molecular Psychiatry</i> , 2021 , 26, 2483-2492	15.1	2
6	Glutamate diffusion in the rat brain in vivo under light and deep anesthesia conditions. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 84-94	4.4	1
5	New Opportunities for High-Field In Vivo MRS in Studying Brain Bioenergetics and Function. <i>Brain Imaging and Behavior</i> , 2008 , 2, 232-241	4.1	1
4	White Matter Measures and Cognition in Schizophrenia. <i>Frontiers in Psychiatry</i> , 2020 , 11, 603	5	1
3	Abnormal Brain Bioenergetics in First-Episode Psychosis. <i>Schizophrenia Bulletin Open</i> , 2021 , 2, sgaa073	2.2	1
2	Reductions in rostral anterior cingulate GABA are associated with stress circuitry in females with major depression: a multimodal imaging investigation. <i>Neuropsychopharmacology</i> , 2021 , 46, 2188-2196	8.7	0
1	778 Poor Sleep Quality is Associated with Reduced Myelination in Patients with Psychotic Disorders. <i>Sleep</i> , 2021 , 44, A303-A303	1.1	