Richard A E Edden

List of Publications by Year
in descending order

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221 papers	13,064 citations	22153 59 h-index	34986 98 g-index
244 all docs	244 docs citations	244 times ranked	10382 citing authors

#	Article	IF	Citations
1	Dopamine Synthesis Capacity and GABA and Glutamate Levels Separate Antipsychotic-NaÃ¯ve Patients With First-Episode Psychosis From Healthy Control Subjects in a Multimodal Prediction Model. Biological Psychiatry Global Open Science, 2023, 3, 500-509.	2.2	5
2	Assessment of the Precision in Measuring Glutathione at <scp>3â€‰T</scp> With a <scp>MEGAâ€PRESS</scp> Sequence in Primary Motor Cortex and Occipital Cortex. Journal of Magnetic Resonance Imaging, 2022, 55, 435-442.	3.4	2
3	In vivo spectral editing of phosphorylethanolamine. Magnetic Resonance in Medicine, 2022, 87, 50-56.	3.0	4
4	Influence of editing pulse flip angle on Jâ€difference MR spectroscopy. Magnetic Resonance in Medicine, 2022, 87, 589-596.	3.0	4
5	Comparison of linear combination modeling strategies for edited magnetic resonance spectroscopy at 3ÂT. NMR in Biomedicine, 2022, 35, e4618.	2.8	26
6	Edited magnetic resonance spectroscopy in the neonatal brain. Neuroradiology, 2022, 64, 217-232.	2.2	2
7	The macromolecular MR spectrum does not change with healthy aging. Magnetic Resonance in Medicine, 2022, 87, 1711-1719.	3.0	18
8	Frequency and Intensity of Premonitory Urgesâ€toâ€Tic in Tourette Syndrome Is Associated With Supplementary Motor Area GABA+ Levels. Movement Disorders, 2022, 37, 563-573.	3.9	13
9	Comparison of seven modelling algorithms for Î³â€aminobutyric acidâ€“edited proton magnetic resonance spectroscopy. NMR in Biomedicine, 2022, 35, e4702.	2.8	20
10	GABA _B receptor modulation of visual sensory processing in adults with and without autism spectrum disorder. Science Translational Medicine, 2022, 14, eabg7859.	12.4	23
11	The role of MRS-assessed GABA in human behavioral performance. Progress in Neurobiology, 2022, 212, 102247.	5.7	19
12	Task-Related Modulation of Sensorimotor GABA+ Levels in Association with Brain Activity and Motor Performance: A Multimodal MRSâ€“fMRI Study in Young and Older Adults. Journal of Neuroscience, 2022, 42, 1119-1130.	3.6	2
13	Hadamardâ€encoded dualâ€voxel SPECIAL: Shortâ€TE MRS acquired in two brain regions simultaneously using Hadamard encoding. Magnetic Resonance in Medicine, 2022, 87, 1649-1660.	3.0	1
14	Reduced Glx and GABA Inductions in the Anterior Cingulate Cortex and Caudate Nucleus Are Related to Impaired Control of Attention in Attention-Deficit/Hyperactivity Disorder. International Journal of Molecular Sciences, 2022, 23, 4677.	4.1	7
15	Importance of Linear Combination Modeling for Quantification of Glutathione and Î³-Aminobutyric Acid Levels Using Hadamard-Edited Magnetic Resonance Spectroscopy. Frontiers in Psychiatry, 2022, 13, 872403.	2.6	7
16	The interaction between endogenous GABA, functional connectivity, and behavioral flexibility is critically altered with advanced age. Communications Biology, 2022, 5, 426.	4.4	3
17	Hypoxia alters posterior cingulate cortex metabolism during a memory task: A 1H fMRS study. NeuroImage, 2022, 260, 119397.	4.2	2
18	<scp>MRSCloud</scp>: A cloudâ€based<scp>MRS</scp>tool for basis set simulation. Magnetic Resonance in Medicine, 2022, 88, 1994-2004.	3.0	19

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19	A multimodal approach to studying the relationship between peripheral glutathione, brain glutamate, and cognition in health and in schizophrenia. Molecular Psychiatry, 2021, 26, 3502-3511.	7.9	28
20	Associations Between Cognitive Function and Levels of Glutamatergic Metabolites and Gamma-Aminobutyric Acid in Antipsychotic-NaÃ¯ve Patients With Schizophrenia or Psychosis. Biological Psychiatry, 2021, 89, 278-287.	1.3	36
21	Greater Somatosensory Afference With Acupuncture Increases Primary Somatosensory Connectivity and Alleviates Fibromyalgia Pain via Insular Î³â€Aminobutyric Acid: A Randomized Neuroimaging Trial. Arthritis and Rheumatology, 2021, 73, 1318-1328.	5.6	32
22	Frequency and phase correction of Jâ€difference edited MR spectra using deep learning. Magnetic Resonance in Medicine, 2021, 85, 1755-1765.	3.0	23
23	Spectral editing in ¹H magnetic resonance spectroscopy: Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4411.	2.8	74
24	Comparison of different linearâ€combination modeling algorithms for shortâ€TE proton spectra. NMR in Biomedicine, 2021, 34, e4482.	2.8	53
25	Single-dose L-dopa increases upper brainstem GABA in Parkinson's disease: A preliminary study. Journal of the Neurological Sciences, 2021, 422, 117309.	0.6	11
26	Upper brainstem GABA levels in Parkinsonâ€™s disease. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 689-696.	2.0	8
27	In Vivo Brain Glutathione is Higher in Older Age and Correlates with Mobility. Cerebral Cortex, 2021, 31, 4576-4594.	2.9	26
28	Relationship between GABA levels and task-dependent cortical excitability in children with attention-deficit/hyperactivity disorder. Clinical Neurophysiology, 2021, 132, 1163-1172.	1.5	18
29	GABA levels are differentially associated with bimanual motor performance in older as compared to young adults. NeuroImage, 2021, 231, 117871.	4.2	16
30	Comparison of methods for spectral alignment and signal modelling of GABA-edited MR spectroscopy data. NeuroImage, 2021, 232, 117900.	4.2	5
31	The trajectory of cortical GABA across the lifespan, an individual participant data meta-analysis of edited MRS studies. ELife, 2021, 10, .	6.0	55
32	Simultaneous quantification of GABA, Glx and GSH in the neonatal human brain using magnetic resonance spectroscopy. NeuroImage, 2021, 233, 117930.	4.2	13
33	Region-specific elevations of glutamate + glutamine correlate with the sensory symptoms of autism spectrum disorders. Translational Psychiatry, 2021, 11, 411.	4.8	27
34	Improved prospective frequency correction for macromoleculeâ€suppressed GABA editing with metabolite cycling at 3T. Magnetic Resonance in Medicine, 2021, 86, 2945-2956.	3.0	5
35	Hippocampal and striatal responses during motor learning are modulated by prefrontal cortex stimulation. NeuroImage, 2021, 237, 118158.	4.2	13
36	Hyperpolarized MRI, functional MRI, MR spectroscopy and CEST to provide metabolic information inÂvivo. Current Opinion in Chemical Biology, 2021, 63, 209-218.	6.1	17

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37	A role for GABA in the modulation of striatal and hippocampal systems under stress. Communications Biology, 2021, 4, 1033.	4.4	7
38	Frequency drift in MR spectroscopy at 3T. NeuroImage, 2021, 241, 118430.	4.2	28
39	Disorder-specific alterations of tactile sensitivity in neurodevelopmental disorders. Communications Biology, 2021, 4, 97.	4.4	21
40	In vivo Glx and Glu measurements from GABAâ€edited MRS at 3 T. NMR in Biomedicine, 2021, 34, e4245.	2.8	26
41	Cerebellar GABA Levels and Cognitive Interference in Parkinsonâ€™s disease and Healthy Comparators. Journal of Personalized Medicine, 2021, 11, 16.	2.5	6
42	Treatment evaluation of Kami Guibiâ€tang on participants with amnestic mild cognitive impairment using magnetic resonance imaging on brain metabolites, gammaâ€aminobutyric acid, and cerebral blood flow. Journal of Applied Clinical Medical Physics, 2021, 22, 151-164.	1.9	1
43	Treatment response after 6 and 26 weeks is related to baseline glutamate and GABA levels in antipsychotic-naÃ¯ve patients with psychosis. Psychological Medicine, 2020, 50, 2182-2193.	4.5	49
44	The impact of brain morphometry on tDCS effects on GABA levels. Brain Stimulation, 2020, 13, 284-286.	1.6	4
45	An evaluation of the reproducibility of 1H-MRS GABA and GSH levels acquired in healthy volunteers with J-difference editing sequences at varying echo times. Magnetic Resonance Imaging, 2020, 65, 109-113.	1.8	25
46	Cerebral Glutamate and Gamma-Aminobutyric Acid Levels in Individuals at Ultra-high Risk for Psychosis and the Association With Clinical Symptoms and Cognition. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2020, 5, 569-579.	1.5	12
47	Baseline measures of cerebral glutamate and GABA levels in individuals at ultrahigh risk for psychosis: Implications for clinical outcome after 12Âmonths. European Psychiatry, 2020, 63, e83.	0.2	7
48	Correcting frequency and phase offsets in MRS data using robust spectral registration. NMR in Biomedicine, 2020, 33, e4368.	2.8	43
49	High Î³â€Aminobutyric Acid Content Within the Medial Prefrontal Cortex Is a Functional Signature of Somatic Symptoms Disorder in Patients With Parkinson's Disease. Movement Disorders, 2020, 35, 2184-2192.	3.9	15
50	GSH and GABA decreases in IDH1-mutated low-grade gliomas detected by HERMES spectral editing at 3ÂT in vivo. Neurochemistry International, 2020, 141, 104889.	3.8	5
51	Unaltered Brain GABA Concentrations and Resting fMRI Activity in Functional Dyspepsia With and Without Comorbid Depression. Frontiers in Psychiatry, 2020, 11, 549749.	2.6	3
52	Feasibility of Measuring GABA Levels in the Upper Brainstem in Healthy Volunteers Using Edited MRS. Frontiers in Psychiatry, 2020, 11, 813.	2.6	2
53	Brain GABA+ changes in primary hypothyroidism patients before and after levothyroxine treatment: A longitudinal magnetic resonance spectroscopy study. NeuroImage: Clinical, 2020, 28, 102473.	2.7	9
54	Effect of Age on GABA+ and Glutathione in a Pediatric Sample. American Journal of Neuroradiology, 2020, 41, 1099-1104.	2.4	22

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55	Weaker neural suppression in autism. Nature Communications, 2020, 11, 2675.	12.8	28
56	Neurometabolic underpinning of the intergenerational transmission of prosociality. NeuroImage, 2020, 218, 116965.	4.2	4
57	Reproducibility of flutter-range vibrotactile detection and discrimination thresholds. Scientific Reports, 2020, 10, 6528.	3.3	17
58	Osprey: Open-source processing, reconstruction & estimation of magnetic resonance spectroscopy data. Journal of Neuroscience Methods, 2020, 343, 108827.	2.5	108
59	Baseline sensorimotor GABA levels shape neuroplastic processes induced by motor learning in older adults. Human Brain Mapping, 2020, 41, 3680-3695.	3.6	21
60	Regional balance between glutamate+glutamine and GABA+ in the resting human brain. NeuroImage, 2020, 220, 117112.	4.2	36
61	Shorter sleep duration is associated with lower GABA levels in the anterior cingulate cortex. Sleep Medicine, 2020, 71, 1-7.	1.6	21
62	Comparison of Multivendor Single-Voxel MR Spectroscopy Data Acquired in Healthy Brain at 26 Sites. Radiology, 2020, 295, 171-180.	7.3	31
63	Concentrations of Cortical <scp>GABA</scp> and Glutamate in Young Adults With Autism Spectrum Disorder. Autism Research, 2020, 13, 1111-1129.	3.8	38
64	Motion correction in magnetic resonance spectroscopy. Magnetic Resonance in Medicine, 2020, 84, 2312-2326.	3.0	18
65	Simultaneous edited MRS of GABA, glutathione, and ethanol. NMR in Biomedicine, 2020, 33, e4227.	2.8	7
66	Reduced striatal GABA in unmedicated children with ADHD at 7T. Psychiatry Research - Neuroimaging, 2020, 301, 111082.	1.8	33
67	Neurometabolic and functional connectivity basis of prosocial behavior in early adolescence. Scientific Reports, 2019, 9, 732.	3.3	9
68	Multi-vendor standardized sequence for edited magnetic resonance spectroscopy. NeuroImage, 2019, 189, 425-431.	4.2	41
69	Low Prefrontal GABA Levels Are Associated With Poor Cognitive Functions in Professional Boxers. Frontiers in Human Neuroscience, 2019, 13, 193.	2.0	19
70	Investigation of anterior cingulate cortex gamma-aminobutyric acid and glutamate-glutamine levels in obsessive-compulsive disorder using magnetic resonance spectroscopy. BMC Psychiatry, 2019, 19, 164.	2.6	21
71	Cerebellar GABAergic correlates of cognitionâ€mediated verbal fluency in physiology and schizophrenia. Acta Psychiatrica Scandinavica, 2019, 139, 582-594.	4.5	16
72	Big GABA II: Water-referenced edited MR spectroscopy at 25 research sites. NeuroImage, 2019, 191, 537-548.	4.2	76

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73	Induced and Evoked Properties of Vibrotactile Adaptation in the Primary Somatosensory Cortex. Neural Plasticity, 2019, 2019, 1-9.	2.2	6
74	Reductions in GABA following a tDCS-language intervention for primary progressive aphasia. Neurobiology of Aging, 2019, 79, 75-82.	3.1	30
75	Simultaneous editing of GABA and GSH with Hadamardâ€encoded MR spectroscopic imaging. Magnetic Resonance in Medicine, 2019, 82, 21-32.	3.0	20
76	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. Neuropsychopharmacology, 2019, 44, 1398-1405.	5.4	95
77	Effects of cannabidivarin (CBDV) on brain excitation and inhibition systems in adults with and without Autism Spectrum Disorder (ASD): a single dose trial during magnetic resonance spectroscopy. Translational Psychiatry, 2019, 9, 313.	4.8	36
78	Testosterone is related to GABA+ levels in the posterior-cingulate in unmedicated depressed women during reproductive life. Journal of Affective Disorders, 2019, 242, 143-149.	4.1	11
79	Neurometabolites and associations with cognitive deficits in mild cognitive impairment: a magnetic resonance spectroscopy study at 7ÂTesla. Neurobiology of Aging, 2019, 73, 211-218.	3.1	61
80	Resting-state functional connectivity, cortical GABA, and neuroactive steroids in peripartum and peripartum depressed women: a functional magnetic resonanceÂimaging and spectroscopyÂstudy. Neuropsychopharmacology, 2019, 44, 546-554.	5.4	57
81	Glutamatergic facilitation of neural responses in MT enhances motion perception in humans. NeuroImage, 2019, 184, 925-931.	4.2	16
82	Advanced Hadamard-encoded editing of seven low-concentration brain metabolites: Principles of HERCULES. NeuroImage, 2019, 185, 181-190.	4.2	33
83	Designing GABA-edited magnetic resonance spectroscopy studies: Considerations of scan duration, signal-to-noise ratio and sample size. Journal of Neuroscience Methods, 2018, 303, 86-94.	2.5	40
84	GABA levels and measures of intracortical and interhemispheric excitability in healthy young and older adults: an MRS-TMS study. Neurobiology of Aging, 2018, 65, 168-177.	3.1	62
85	Simultaneous editing of GABA and glutathione at 7T using semiâ€LASER localization. Magnetic Resonance in Medicine, 2018, 80, 474-479.	3.0	12
86	Frequency and phase correction for multiplexed edited MRS of GABA and glutathione. Magnetic Resonance in Medicine, 2018, 80, 21-28.	3.0	29
87	Hadamard editing of glutathione and macromoleculeâ€suppressed GABA. NMR in Biomedicine, 2018, 31, e3844.	2.8	16
88	GABA and glutamate in children with Tourette syndrome: A 1 H MR spectroscopy study at 7 T. Psychiatry Research - Neuroimaging, 2018, 273, 46-53.	1.8	50
89	Glutamate quantification by PRESS or MEGA-PRESS: Validation, repeatability, and concordance. Magnetic Resonance Imaging, 2018, 48, 107-114.	1.8	35
90	Ageâ€related differences in GABA levels are driven by bulk tissue changes. Human Brain Mapping, 2018, 39, 3652-3662.	3.6	47

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91	The neurochemical basis of the contextual interference effect. Neurobiology of Aging, 2018, 66, 85-96.	3.1	35
92	Decoupling of Brain Temperature and Glutamate in Recent Onset of Schizophrenia: A 7T Proton Magnetic Resonance Spectroscopy Study. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2018, 3, 248-254.	1.5	26
93	Effects of eddy currents on selective spectral editing experiments at 3T. Journal of Magnetic Resonance Imaging, 2018, 47, 673-681.	3.4	6
94	Inhibitory motor dysfunction in parkinson's disease subtypes. Journal of Magnetic Resonance Imaging, 2018, 47, 1610-1615.	3.4	25
95	GABAâ€"from Inhibition to Cognition: Emerging Concepts. Neuroscientist, 2018, 24, 501-515.	3.5	49
96	Reduced GABA levels correlate with cognitive impairment in patients with relapsing-remitting multiple sclerosis. European Radiology, 2018, 28, 1140-1148.	4.5	58
97	Online effects of transcranial direct current stimulation on prefrontal metabolites in gambling disorder. Neuropharmacology, 2018, 131, 51-57.	4.1	29
98	Macromolecule-suppressed GABA measurements correlate more strongly with behavior than macromolecule-contaminated GABA+â€¯measurements. Brain Research, 2018, 1701, 204-211.	2.2	19
99	Opposite Dynamics of GABA and Glutamate Levels in the Occipital Cortex during Visual Processing. Journal of Neuroscience, 2018, 38, 9967-9976.	3.6	59
100	Suppression and facilitation of human neural responses. ELife, 2018, 7, .	6.0	48
101	GABA Levels in Left and Right Sensorimotor Cortex Correlate across Individuals. Biomedicines, 2018, 6, 80.	3.2	12
102	Brain GABA Levels Are Associated with Inhibitory Control Deficits in Older Adults. Journal of Neuroscience, 2018, 38, 7844-7851.	3.6	82
103	Altered hippocampal GABA and glutamate levels and uncoupling from functional connectivity in multiple sclerosis. Hippocampus, 2018, 28, 813-823.	1.9	33
104	Echo time optimization for Jâ€‰difference editing of glutathione at 3T. Magnetic Resonance in Medicine, 2017, 77, 498-504.	3.0	27
105	Edited¹H magnetic resonance spectroscopy in vivo: Methods and metabolites. Magnetic Resonance in Medicine, 2017, 77, 1377-1389.	3.0	144
106	Spatial Hadamard encoding of Jâ€‰edited spectroscopy using sliceâ€‰selective editing pulses. NMR in Biomedicine, 2017, 30, e3688.	2.8	5
107	Normalizing data from GABA-edited MEGA-PRESS implementations at 3 Tesla. Magnetic Resonance Imaging, 2017, 42, 8-15.	1.8	15
108	Shifting brain inhibitory balance and connectivity of the prefrontal cortex of adults with autism spectrum disorder. Translational Psychiatry, 2017, 7, e1137-e1137.	4.8	101

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109	GABA content within medial prefrontal cortex predicts the variability of fronto-limbic effective connectivity. Brain Structure and Function, 2017, 222, 3217-3229.	2.3	29
110	Impact of tissue correction strategy on GABA-edited MRS findings. NeuroImage, 2017, 162, 249-256.	4.2	54
111	Simultaneous detection of glutathione and lactate using spectral editing at 3ÂT. NMR in Biomedicine, 2017, 30, e3800.	2.8	8
112	Big GABA: Edited MR spectroscopy at 24 research sites. NeuroImage, 2017, 159, 32-45.	4.2	143
113	Simultaneous measurement of Aspartate, NAA, and NAAG using HERMES spectral editing at 3 Tesla. NeuroImage, 2017, 155, 587-593.	4.2	19
114	Dualâ€volume excitation and parallel reconstruction for Jâ€differenceâ€edited MR spectroscopy. Magnetic Resonance in Medicine, 2017, 77, 16-22.	3.0	12
115	Altered tactile sensitivity in children with attention-deficit hyperactivity disorder. Journal of Neurophysiology, 2017, 118, 2568-2578.	1.8	33
116	A Neural â€œTuning Curveâ€•for Multisensory Experience and Cognitive-Perceptual Schizotypy. Schizophrenia Bulletin, 2017, 43, 801-813.	4.3	48
117	Functional and neurochemical interactions within the amygdalaâ€“medial prefrontal cortex circuit and their relevance to emotional processing. Brain Structure and Function, 2017, 222, 1267-1279.	2.3	43
118	Investigation of brain GABA+ in primary hypothyroidism using edited proton MR spectroscopy. Clinical Endocrinology, 2017, 86, 256-262.	2.4	8
119	Reduced GABA and altered somatosensory function in children with autism spectrum disorder. Autism Research, 2017, 10, 608-619.	3.8	174
120	Frontal Gamma-Aminobutyric Acid Concentrations Are Associated With Cognitive Performance in Older Adults. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2017, 2, 38-44.	1.5	125
121	Voxel Placement Precision for GABA-Edited Magnetic Resonance Spectroscopy. Open Journal of Radiology, 2017, 07, 35-44.	0.2	22
122	HERMES: Hadamard encoding and reconstruction of MEGAâ€edited spectroscopy. Magnetic Resonance in Medicine, 2016, 76, 11-19.	3.0	59
123	Prospective frequency correction for macromolecule-suppressed GABA editing at 3T. Journal of Magnetic Resonance Imaging, 2016, 44, 1474-1482.	3.4	74
124	GABA quantitation using MEGA-PRESS: Regional and hemispheric differences. Journal of Magnetic Resonance Imaging, 2016, 44, 1619-1623.	3.4	31
125	Elevated brain lactate in schizophrenia: a 7â€‰T magnetic resonance spectroscopy study. Translational Psychiatry, 2016, 6, e967-e967.	4.8	104
126	Increased GABA concentrations in type 2 diabetes mellitus are related to lower cognitive functioning. Medicine (United States), 2016, 95, e4803.	1.0	35

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127	GABA+ levels in postmenopausal women with mild-to-moderate depression. Medicine (United States), 2016, 95, e4918.	1.0	14
128	Glutamate concentrations vary with antiepileptic drug use and mental slowing. Epilepsy and Behavior, 2016, 64, 200-205.	1.7	9
129	The Role of Attention in Somatosensory Processing: A Multi-trait, Multi-method Analysis. Journal of Autism and Developmental Disorders, 2016, 46, 3232-3241.	2.7	29
130	Altered neurotransmitter metabolism in adolescents with high-functioning autism. Psychiatry Research - Neuroimaging, 2016, 256, 44-49.	1.8	52
131	GABA levels in the ventromedial prefrontal cortex during the viewing of appetitive and disgusting food images. Neuroscience, 2016, 333, 114-122.	2.3	12
132	Simultaneous edited MRS of GABA and glutathione. NeuroImage, 2016, 142, 576-582.	4.2	73
133	Brain iron deficiency in idiopathic restless legs syndrome measured by quantitative magnetic susceptibility at 7 tesla. Sleep Medicine, 2016, 22, 75-82.	1.6	70
134	Age-related changes in anterior cingulate cortex glutamate in schizophrenia: A 1H MRS Study at 7Tesla. Schizophrenia Research, 2016, 172, 101-105.	2.0	67
135	GABA and Glutamate in Children with Primary Complex Motor Stereotypies: An¹H-MRS Study at 7T. American Journal of Neuroradiology, 2016, 37, 552-557.	2.4	43
136	Online Effects of Transcranial Direct Current Stimulation in Real Time on Human Prefrontal and Striatal Metabolites. Biological Psychiatry, 2016, 80, 432-438.	1.3	93
137	Local GABA Concentration Predicts Perceptual Improvements After Repetitive Sensory Stimulation in Humans. Cerebral Cortex, 2016, 26, 1295-1301.	2.9	40
138	Investigation of NAA and NAAG dynamics underlying visual stimulation using MEGA-PRESS in a functional MRS experiment. Magnetic Resonance Imaging, 2016, 34, 239-245.	1.8	28
139	GABA content within the ventromedial prefrontal cortex is related to trait anxiety. Social Cognitive and Affective Neuroscience, 2016, 11, 758-766.	3.0	33
140	Comparison of brain gray and white matter macromolecule resonances at 3 and 7 Tesla. Magnetic Resonance in Medicine, 2015, 74, 607-613.	3.0	51
141	Spectral-editing measurements of GABA in the human brain with and without macromolecule suppression. Magnetic Resonance in Medicine, 2015, 74, 1523-1529.	3.0	78
142	Tissue correction for GABAâ€edited MRS: Considerations of voxel composition, tissue segmentation, and tissue relaxations. Journal of Magnetic Resonance Imaging, 2015, 42, 1431-1440.	3.4	239
143	Frequency and phase drift correction of magnetic resonance spectroscopy data by spectral registration in the time domain. Magnetic Resonance in Medicine, 2015, 73, 44-50.	3.0	221
144	Human Auditory Cortex Neurochemistry Reflects the Presence and Severity of Tinnitus. Journal of Neuroscience, 2015, 35, 14822-14828.	3.6	41

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145	Co-registration of magnetic resonance spectroscopy and transcranial magnetic stimulation. Journal of Neuroscience Methods, 2015, 242, 52-57.	2.5	9
146	Decreased auditory GABA+ concentrations in presbycusis demonstrated by edited magnetic resonance spectroscopy. NeuroImage, 2015, 106, 311-316.	4.2	64
147	Reduced GABAergic inhibition and abnormal sensory symptoms in children with Tourette syndrome. Journal of Neurophysiology, 2015, 114, 808-817.	1.8	117
148	Developmental changes in gamma-aminobutyric acid levels in attention-deficit/hyperactivity disorder. Translational Psychiatry, 2015, 5, e589-e589.	4.8	66
149	fMRI and MRS measures of neuroplasticity in the pharyngeal motor cortex. NeuroImage, 2015, 117, 1-10.	4.2	22
150	Relationship among Glutamine, Î³-Aminobutyric Acid, and Social Cognition in Autism Spectrum Disorders. Journal of Child and Adolescent Psychopharmacology, 2015, 25, 314-322.	1.3	97
151	Reduced gamma-aminobutyric acid concentration is associated with physical disability in progressive multiple sclerosis. Brain, 2015, 138, 2584-2595.	7.6	95
152	Vitamin D₃Supplemental Treatment for Mania in Youth with Bipolar Spectrum Disorders. Journal of Child and Adolescent Psychopharmacology, 2015, 25, 415-424.	1.3	37
153	Comparison of single voxel brain MRS AT 3T and 7T using 32-channel head coils. Magnetic Resonance Imaging, 2015, 33, 1013-1018.	1.8	68
154	Posterior cingulate Î³-aminobutyric acid and glutamate/glutamine are reduced in amnestic mild cognitive impairment and are unrelated to amyloid deposition and apolipoprotein E genotype. Neurobiology of Aging, 2015, 36, 53-59.	3.1	61
155	Abnormal relationship between GABA, neurophysiology and impulsive behavior in neurofibromatosis type 1. Cortex, 2015, 64, 194-208.	2.4	55
156	Investigation of glutamine and GABA levels in patients with idiopathic generalized epilepsy using MEGAPRESS. Journal of Magnetic Resonance Imaging, 2015, 41, 694-699.	3.4	43
157	Resting BOLD fluctuations in the primary somatosensory cortex correlate with tactile acuity. Cortex, 2015, 64, 20-28.	2.4	28
158	Decreased Î³-aminobutyric acid levels in the parietal region of patients with Alzheimer's disease. Journal of Magnetic Resonance Imaging, 2015, 41, 1326-1331.	3.4	82
159	Multi-Regional Investigation of the Relationship between Functional MRI Blood Oxygenation Level Dependent (BOLD) Activation and GABA Concentration. PLoS ONE, 2015, 10, e0117531.	2.5	37
160	Thalamic GABA Predicts Fine Motor Performance in Manganese-Exposed Smelter Workers. PLoS ONE, 2014, 9, e88220.	2.5	33
161	Enhanced Awareness Followed Reversible Inhibition of Human Visual Cortex: A Combined TMS, MRS and MEG Study. PLoS ONE, 2014, 9, e100350.	2.5	23
162	Gannet: A batchâ€processing tool for the quantitative analysis of gammaâ€aminobutyric acidâ€“edited MR spectroscopy spectra. Journal of Magnetic Resonance Imaging, 2014, 40, 1445-1452.	3.4	487

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163	Reply to Dickinson and Milne. Journal of Neurophysiology, 2014, 112, 1600-1601.	1.8	4
164	Feeling safe in the plane: Neural mechanisms underlying superior action control in airplane pilot traineesâ€"A combined EEG/MRS study. Human Brain Mapping, 2014, 35, 5040-5051.	3.6	52
165	Measurement of GABA using Jâ€difference edited ¹Hâ€MRS following modulation of synaptic GABA concentration with tiagabine. Synapse, 2014, 68, 355-362.	1.2	28
166	Impact of frequency drift on gamma-aminobutyric acid-edited MR spectroscopy. Magnetic Resonance in Medicine, 2014, 72, 941-948.	3.0	100
167	Impaired tactile processing in children with autism spectrum disorder. Journal of Neurophysiology, 2014, 111, 1803-1811.	1.8	179
168	Multimodal <scp>MRI</scp> as a diagnostic biomarker for amyotrophic lateral sclerosis. Annals of Clinical and Translational Neurology, 2014, 1, 107-114.	3.7	45
169	Current practice in the use of MEGA-PRESS spectroscopy for the detection of GABA. NeuroImage, 2014, 86, 43-52.	4.2	448
170	Thalamic activity and biochemical changes in individuals with neuropathic pain after spinal cord injury. Pain, 2014, 155, 1027-1036.	4.2	106
171	Temporal dynamics of lactate concentration in the human brain during acute inspiratory hypoxia. Journal of Magnetic Resonance Imaging, 2013, 37, 739-745.	3.4	18
172	Subtraction artifacts and frequency (Misâ€)alignment in Jâ€difference GABA editing. Journal of Magnetic Resonance Imaging, 2013, 38, 970-975.	3.4	59
173	A vibrotactile behavioral battery for investigating somatosensory processing in children and adults. Journal of Neuroscience Methods, 2013, 218, 39-47.	2.5	37
174	Edited magnetic resonance spectroscopy detects an age-related decline in brain GABA levels. NeuroImage, 2013, 78, 75-82.	4.2	247
175	Marked Reductions in Visual Evoked Responses But Not Î³-Aminobutyric Acid Concentrations or Î³-Band Measures in Remitted Depression. Biological Psychiatry, 2013, 73, 691-698.	1.3	30
176	Nuclear Overhauser enhancement (NOE) imaging in the human brain at 7T. NeuroImage, 2013, 77, 114-124.	4.2	266
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