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	Resting GABA concentration predicts peak gamma frequency and fMRI amplitude in response to visual stimulation in humans. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8356-8361.	7.1	503
2	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
3	Current practice in the use of MEGA-PRESS spectroscopy for the detection of GABA. NeuroImage, 2014, 86, 43-52.	4.2	448
4	In vivo magnetic resonance spectroscopy of GABA: A methodological review. Progress in Nuclear Magnetic Resonance Spectroscopy, 2012, 60, 29-41.	7.5	321
5	Orientation Discrimination Performance Is Predicted by GABA Concentration and Gamma Oscillation Frequency in Human Primary Visual Cortex. Journal of Neuroscience, 2009, 29, 15721-15726.	3.6	304
6	Nuclear Overhauser enhancement (NOE) imaging in the human brain at 7T. NeuroImage, 2013, 77, 114-124.	4.2	266
7	Ketamine effects on brain GABA and glutamate levels with 1H-MRS: relationship to ketamine-induced psychopathology. Molecular Psychiatry, 2012, 17, 664-665.	7.9	260
8	Edited magnetic resonance spectroscopy detects an age-related decline in brain GABA levels. NeuroImage, 2013, 78, 75-82.	4.2	247
9	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
10	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
11	In vivo detection of GABA and glutamate with MEGAâ€PRESS: Reproducibility and gender effects. Journal of Magnetic Resonance Imaging, 2011, 33, 1262-1267.	3.4	191
12	Reduced GABA Concentration in Attention-Deficit/Hyperactivity Disorder. Archives of General Psychiatry, 2012, 69, 750-3.	12.3	190
13	Impaired tactile processing in children with autism spectrum disorder. Journal of Neurophysiology, 2014, 111, 1803-1811.	1.8	179
14	Reduced GABA and altered somatosensory function in children with autism spectrum disorder. Autism Research, 2017, 10, 608-619.	3.8	174
15	Reduced insular Î³â€aminobutyric acid in fibromyalgia. Arthritis and Rheumatism, 2012, 64, 579-583.	6.7	171
16	Spatial effects in the detection of Î³â€aminobutyric acid: Improved sensitivity at high fields using inner volume saturation. Magnetic Resonance in Medicine, 2007, 58, 1276-1282.	3.0	150
17	Regionally Specific Human GABA Concentration Correlates with Tactile Discrimination Thresholds. Journal of Neuroscience, 2011, 31, 16556-16560.	3.6	147
18	Edited¹H magnetic resonance spectroscopy in vivo: Methods and metabolites. Magnetic Resonance in Medicine, 2017, 77, 1377-1389.	3.0	144

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19	Big GABA: Edited MR spectroscopy at 24 research sites. NeuroImage, 2017, 159, 32-45.	4.2	143
20	Theoretical and experimental investigation of the VASO contrast mechanism. Magnetic Resonance in Medicine, 2006, 56, 1261-1273.	3.0	142
21	In Vivo Measurements of Glutamate, GABA, and NAAG in Schizophrenia. Schizophrenia Bulletin, 2013, 39, 1096-1104.	4.3	135
22	More GABA, less distraction: a neurochemical predictor of motor decision speed. Nature Neuroscience, 2010, 13, 825-827.	14.8	132
23	Individual Differences in Subconscious Motor Control Predicted by GABA Concentration in SMA. Current Biology, 2010, 20, 1779-1785.	3.9	131
24	In Vivo Measurement of Brain GABA Concentrations by Magnetic Resonance Spectroscopy in Smelters Occupationally Exposed to Manganese. Environmental Health Perspectives, 2011, 119, 219-224.	6.0	130
25	An Imbalance Between Excitatory and Inhibitory Neurotransmitters in Amyotrophic Lateral Sclerosis Revealed by Use of 3-T Proton Magnetic Resonance Spectroscopy. JAMA Neurology, 2013, 70, 1009.	9.0	126
26	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
27	Dorsolateral Prefrontal Î³-Aminobutyric Acid in Men Predicts Individual Differences in Rash Impulsivity. Biological Psychiatry, 2011, 70, 866-872.	1.3	118
28	Reduced GABAergic inhibition and abnormal sensory symptoms in children with Tourette syndrome. Journal of Neurophysiology, 2015, 114, 808-817.	1.8	117
29	Broadband proton-decoupled proton spectra. Magnetic Resonance in Chemistry, 2007, 45, 296-316.	1.9	114
30	Macromoleculeâ€suppressed GABAâ€edited magnetic resonance spectroscopy at 3T. Magnetic Resonance in Medicine, 2012, 68, 657-661.	3.0	111
31	Individual variability in the shape and amplitude of the BOLDâ€HRF correlates with endogenous GABAergic inhibition. Human Brain Mapping, 2012, 33, 455-465.	3.6	109
32	Frontal GABA Levels Change during Working Memory. PLoS ONE, 2012, 7, e31933.	2.5	108
33	Osprey: Open-source processing, reconstruction & estimation of magnetic resonance spectroscopy data. Journal of Neuroscience Methods, 2020, 343, 108827.	2.5	108
34	Decreased motor cortex Î³-aminobutyric acid in amyotrophic lateral sclerosis. Neurology, 2012, 78, 1596-1600.	1.1	107
35	Diurnal stability of Î³â€aminobutyric acid concentration in visual and sensorimotor cortex. Journal of Magnetic Resonance Imaging, 2010, 31, 204-209.	3.4	106
36	Thalamic activity and biochemical changes in individuals with neuropathic pain after spinal cord injury. Pain, 2014, 155, 1027-1036.	4.2	106

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37	Elevated brain lactate in schizophrenia: a 7â€‰T magnetic resonance spectroscopy study. Translational Psychiatry, 2016, 6, e967-e967.	4.8	104
38	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
39	Impact of frequency drift on gamma-aminobutyric acid-edited MR spectroscopy. Magnetic Resonance in Medicine, 2014, 72, 941-948.	3.0	100
40	Suppression of strong coupling artefacts in J-spectra. Journal of Magnetic Resonance, 2005, 174, 97-109.	2.1	99
41	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
42	Reduced gamma-aminobutyric acid concentration is associated with physical disability in progressive multiple sclerosis. Brain, 2015, 138, 2584-2595.	7.6	95
43	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
44	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
45	In vivo differentiation of N-acetyl aspartyl glutamate from N-acetyl aspartate at 3 Tesla. Magnetic Resonance in Medicine, 2007, 57, 977-982.	3.0	92
46	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
47	Brain GABA Levels Are Associated with Inhibitory Control Deficits in Older Adults. Journal of Neuroscience, 2018, 38, 7844-7851.	3.6	82
48	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
49	Big GABA II: Water-referenced edited MR spectroscopy at 25 research sites. NeuroImage, 2019, 191, 537-548.	4.2	76
50	Prospective frequency correction for macromolecule-suppressed GABA editing at 3T. Journal of Magnetic Resonance Imaging, 2016, 44, 1474-1482.	3.4	74
51	Spectral editing in ¹H magnetic resonance spectroscopy: Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4411.	2.8	74
52	Altered Excitation-inhibition Balance in the Brain of Patients with Diabetic Neuropathy. Academic Radiology, 2012, 19, 607-612.	2.5	73
53	Simultaneous edited MRS of GABA and glutathione. NeuroImage, 2016, 142, 576-582.	4.2	73
54	Brain metabolite alterations and cognitive dysfunction in early Huntington's disease. Movement Disorders, 2012, 27, 895-902.	3.9	71

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55	Optimized detection of lactate at high fields using inner volume saturation. Magnetic Resonance in Medicine, 2006, 56, 912-917.	3.0	70
56	Measuring T₂ in vivo with Jâ€difference editing: Application to GABA at 3 tesla. Journal of Magnetic Resonance Imaging, 2012, 35, 229-234.	3.4	70
57	Reproducibility of brain spectroscopy at 7T using conventional localization and spectral editing techniques. Journal of Magnetic Resonance Imaging, 2013, 38, 460-467.	3.4	70
58	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
59	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
60	Measurement of T₁ and T₂ in the cervical spinal cord at 3 tesla. Magnetic Resonance in Medicine, 2008, 60, 213-219.	3.0	67
61	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
62	Developmental changes in gamma-aminobutyric acid levels in attention-deficit/hyperactivity disorder. Translational Psychiatry, 2015, 5, e589-e589.	4.8	66
63	Decreased auditory GABA+ concentrations in presbycusis demonstrated by edited magnetic resonance spectroscopy. NeuroImage, 2015, 106, 311-316.	4.2	64
64	Spatial and orientational heterogeneity in the statistical sensitivity of skeleton-based analyses of diffusion tensor MR imaging data. Journal of Neuroscience Methods, 2011, 201, 213-219.	2.5	63
65	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
66	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
67	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
68	Subtraction artifacts and frequency (Misâ€)alignment in Jâ€difference GABA editing. Journal of Magnetic Resonance Imaging, 2013, 38, 970-975.	3.4	59
69	HERMES: Hadamard encoding and reconstruction of MEGAâ€edited spectroscopy. Magnetic Resonance in Medicine, 2016, 76, 11-19.	3.0	59
70	Opposite Dynamics of GABA and Glutamate Levels in the Occipital Cortex during Visual Processing. Journal of Neuroscience, 2018, 38, 9967-9976.	3.6	59
71	Reduced GABA levels correlate with cognitive impairment in patients with relapsing-remitting multiple sclerosis. European Radiology, 2018, 28, 1140-1148.	4.5	58
72	High resolution spectroscopic imaging of GABA at 3 Tesla. Magnetic Resonance in Medicine, 2011, 65, 603-609.	3.0	57

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73	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
74	Jâ€difference editing of gammaâ€aminobutyric acid (GABA): Simulated and experimental multiplet patterns. Magnetic Resonance in Medicine, 2013, 70, 1183-1191.	3.0	56
75	GABA deficit in the visual cortex of patients with neurofibromatosis type 1: genotypeâ€“phenotype correlations and functional impact. Brain, 2013, 136, 918-925.	7.6	55
76	Abnormal relationship between GABA, neurophysiology and impulsive behavior in neurofibromatosis type 1. Cortex, 2015, 64, 194-208.	2.4	55
77	The trajectory of cortical GABA across the lifespan, an individual participant data meta-analysis of edited MRS studies. ELife, 2021, 10, .	6.0	55
78	Impact of tissue correction strategy on GABA-edited MRS findings. NeuroImage, 2017, 162, 249-256.	4.2	54
79	Comparison of different linearâ€combination modeling algorithms for shortâ€TE proton spectra. NMR in Biomedicine, 2021, 34, e4482.	2.8	53
80	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
81	Altered neurotransmitter metabolism in adolescents with high-functioning autism. Psychiatry Research - Neuroimaging, 2016, 256, 44-49.	1.8	52
82	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
83	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
84	GABAâ€”from Inhibition to Cognition: Emerging Concepts. Neuroscientist, 2018, 24, 501-515.	3.5	49
85	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
86	Measuring the longitudinal relaxation time of GABA in vivo at 3 tesla. Journal of Magnetic Resonance Imaging, 2013, 37, 999-1003.	3.4	48
87	A Neural â€œTuning Curveâ€• for Multisensory Experience and Cognitive-Perceptual Schizotypy. Schizophrenia Bulletin, 2017, 43, 801-813.	4.3	48
88	Suppression and facilitation of human neural responses. ELife, 2018, 7, .	6.0	48
89	Ageâ€related differences in GABA levels are driven by bulk tissue changes. Human Brain Mapping, 2018, 39, 3652-3662.	3.6	47
90	Development of a method for the measurement of long-range 13Câ€“1H coupling constants from HMBC spectra. Journal of Magnetic Resonance, 2004, 166, 53-68.	2.1	46

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91	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
92	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
93	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
94	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
95	Correcting frequency and phase offsets in MRS data using robust spectral registration. NMR in Biomedicine, 2020, 33, e4368.	2.8	43
96	Human Auditory Cortex Neurochemistry Reflects the Presence and Severity of Tinnitus. Journal of Neuroscience, 2015, 35, 14822-14828.	3.6	41
97	Multi-vendor standardized sequence for edited magnetic resonance spectroscopy. NeuroImage, 2019, 189, 425-431.	4.2	41
98	Local GABA Concentration Predicts Perceptual Improvements After Repetitive Sensory Stimulation in Humans. Cerebral Cortex, 2016, 26, 1295-1301.	2.9	40
99	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
100	Concentrations of Cortical <scp>GABA</scp> and Glutamate in Young Adults With Autism Spectrum Disorder. Autism Research, 2020, 13, 1111-1129.	3.8	38
101	A vibrotactile behavioral battery for investigating somatosensory processing in children and adults. Journal of Neuroscience Methods, 2013, 218, 39-47.	2.5	37
102	Vitamin D₃Supplemental Treatment for Mania in Youth with Bipolar Spectrum Disorders. Journal of Child and Adolescent Psychopharmacology, 2015, 25, 415-424.	1.3	37
103	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
104	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
105	Regional balance between glutamate+glutamine and GABA+ in the resting human brain. NeuroImage, 2020, 220, 117112.	4.2	36
106	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
107	Increased GABA concentrations in type 2 diabetes mellitus are related to lower cognitive functioning. Medicine (United States), 2016, 95, e4803.	1.0	35
108	Glutamate quantification by PRESS or MEGA-PRESS: Validation, repeatability, and concordance. Magnetic Resonance Imaging, 2018, 48, 107-114.	1.8	35

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109	The neurochemical basis of the contextual interference effect. Neurobiology of Aging, 2018, 66, 85-96.	3.1	35
110	Thalamic GABA Predicts Fine Motor Performance in Manganese-Exposed Smelter Workers. PLoS ONE, 2014, 9, e88220.	2.5	33
111	GABA content within the ventromedial prefrontal cortex is related to trait anxiety. Social Cognitive and Affective Neuroscience, 2016, 11, 758-766.	3.0	33
112	Altered tactile sensitivity in children with attention-deficit hyperactivity disorder. Journal of Neurophysiology, 2017, 118, 2568-2578.	1.8	33
113	Altered hippocampal GABA and glutamate levels and uncoupling from functional connectivity in multiple sclerosis. Hippocampus, 2018, 28, 813-823.	1.9	33
114	Advanced Hadamard-encoded editing of seven low-concentration brain metabolites: Principles of HERCULES. NeuroImage, 2019, 185, 181-190.	4.2	33
115	Reduced striatal GABA in unmedicated children with ADHD at 7T. Psychiatry Research - Neuroimaging, 2020, 301, 111082.	1.8	33
116	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
117	Longitudinal and multiâ€echo transverse relaxation times of normal breast tissue at 3 Tesla. Journal of Magnetic Resonance Imaging, 2010, 32, 982-987.	3.4	31
118	GABA quantitation using MEGA-PRESS: Regional and hemispheric differences. Journal of Magnetic Resonance Imaging, 2016, 44, 1619-1623.	3.4	31
119	Comparison of Multivendor Single-Voxel MR Spectroscopy Data Acquired in Healthy Brain at 26 Sites. Radiology, 2020, 295, 171-180.	7.3	31
120	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
121	Reductions in GABA following a tDCS-language intervention for primary progressive aphasia. Neurobiology of Aging, 2019, 79, 75-82.	3.1	30
122	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
123	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
124	Frequency and phase correction for multiplexed edited MRS of GABA and glutathione. Magnetic Resonance in Medicine, 2018, 80, 21-28.	3.0	29
125	Online effects of transcranial direct current stimulation on prefrontal metabolites in gambling disorder. Neuropharmacology, 2018, 131, 51-57.	4.1	29
126	Proton MR spectroscopic imaging of the medulla and cervical spinal cord. Journal of Magnetic Resonance Imaging, 2007, 26, 1101-1105.	3.4	28

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127	Edited MRS is sensitive to changes in lactate concentration during inspiratory hypoxia. Journal of Magnetic Resonance Imaging, 2010, 32, 320-325.	3.4	28
128	GABA Predicts Inhibition of Frequency-Specific Oscillations in Schizophrenia. Journal of Neuropsychiatry and Clinical Neurosciences, 2013, 25, 83-87.	1.8	28
129	Measurement of GABA using Jâ€difference edited ‹sup›1‹/sup›Hâ€MRS following modulation of synaptic GABA concentration with tiagabine. Synapse, 2014, 68, 355-362.	1.2	28
130	Resting BOLD fluctuations in the primary somatosensory cortex correlate with tactile acuity. Cortex, 2015, 64, 20-28.	2.4	28
131	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
132	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
133	Weaker neural suppression in autism. Nature Communications, 2020, 11, 2675.	12.8	28
134	Frequency drift in MR spectroscopy at 3T. NeuroImage, 2021, 241, 118430.	4.2	28
135	Echo time optimization for Jâ€difference editing of glutathione at 3T. Magnetic Resonance in Medicine, 2017, 77, 498-504.	3.0	27
136	Region-specific elevations of glutamate + glutamine correlate with the sensory symptoms of autism spectrum disorders. Translational Psychiatry, 2021, 11, 411.	4.8	27
137	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
138	In Vivo Brain Glutathione is Higher in Older Age and Correlates with Mobility. Cerebral Cortex, 2021, 31, 4576-4594.	2.9	26
139	Comparison of linear combination modeling strategies for edited magnetic resonance spectroscopy at 3ÂT. NMR in Biomedicine, 2022, 35, e4618.	2.8	26
140	In vivo Glx and Glu measurements from GABAâ€edited MRS at 3 T. NMR in Biomedicine, 2021, 34, e4245.	2.8	26
141	Inhibitory motor dysfunction in parkinson's disease subtypes. Journal of Magnetic Resonance Imaging, 2018, 47, 1610-1615.	3.4	25
142	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
143	Enhanced Awareness Followed Reversible Inhibition of Human Visual Cortex: A Combined TMS, MRS and MEG Study. PLoS ONE, 2014, 9, e100350.	2.5	23
144	Frequency and phase correction of Jâ€difference edited MR spectra using deep learning. Magnetic Resonance in Medicine, 2021, 85, 1755-1765.	3.0	23

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145	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
146	fMRI and MRS measures of neuroplasticity in the pharyngeal motor cortex. NeuroImage, 2015, 117, 1-10.	4.2	22
147	Effect of Age on GABA+ and Glutathione in a Pediatric Sample. American Journal of Neuroradiology, 2020, 41, 1099-1104.	2.4	22
148	Voxel Placement Precision for GABA-Edited Magnetic Resonance Spectroscopy. Open Journal of Radiology, 2017, 07, 35-44.	0.2	22
149	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
150	Baseline sensorimotor GABA levels shape neuroplastic processes induced by motor learning in older adults. Human Brain Mapping, 2020, 41, 3680-3695.	3.6	21
151	Shorter sleep duration is associated with lower GABA levels in the anterior cingulate cortex. Sleep Medicine, 2020, 71, 1-7.	1.6	21
152	Disorder-specific alterations of tactile sensitivity in neurodevelopmental disorders. Communications Biology, 2021, 4, 97.	4.4	21
153	Simultaneous editing of GABA and GSH with Hadamardâ€encoded MR spectroscopic imaging. Magnetic Resonance in Medicine, 2019, 82, 21-32.	3.0	20
154	Comparison of seven modelling algorithms for Î³â€aminobutyric acidâ€“edited proton magnetic resonance spectroscopy. NMR in Biomedicine, 2022, 35, e4702.	2.8	20
155	Simultaneous measurement of Aspartate, NAA, and NAAG using HERMES spectral editing at 3 Tesla. NeuroImage, 2017, 155, 587-593.	4.2	19
156	Macromolecule-suppressed GABA measurements correlate more strongly with behavior than macromolecule-contaminated GABA+â€measurements. Brain Research, 2018, 1701, 204-211.	2.2	19
157	Low Prefrontal GABA Levels Are Associated With Poor Cognitive Functions in Professional Boxers. Frontiers in Human Neuroscience, 2019, 13, 193.	2.0	19
158	The role of MRS-assessed GABA in human behavioral performance. Progress in Neurobiology, 2022, 212, 102247.	5.7	19
159	<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
160	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
161	Motion correction in magnetic resonance spectroscopy. Magnetic Resonance in Medicine, 2020, 84, 2312-2326.	3.0	18
162	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

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163	The macromolecular MR spectrum does not change with healthy aging. Magnetic Resonance in Medicine, 2022, 87, 1711-1719.	3.0	18
164	If J doesn't evolve, it won't Jâ€resolve: Jâ€PRESS with bandwidthâ€limited refocusing pulses. Magnetic Resonance in Medicine, 2011, 65, 1509-1514.	3.0	17
165	Reproducibility of flutter-range vibrotactile detection and discrimination thresholds. Scientific Reports, 2020, 10, 6528.	3.3	17
166	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
167	Hadamard editing of glutathione and macromoleculeâ€suppressed GABA. NMR in Biomedicine, 2018, 31, e3844.	2.8	16
168	Cerebellar GABAergic correlates of cognitionâ€mediated verbal fluency in physiology and schizophrenia. Acta Psychiatrica Scandinavica, 2019, 139, 582-594.	4.5	16
169	Glutamatergic facilitation of neural responses in MT enhances motion perception in humans. NeuroImage, 2019, 184, 925-931.	4.2	16
170	GABA levels are differentially associated with bimanual motor performance in older as compared to young adults. NeuroImage, 2021, 231, 117871.	4.2	16
171	Normalizing data from GABA-edited MEGA-PRESS implementations at 3 Tesla. Magnetic Resonance Imaging, 2017, 42, 8-15.	1.8	15
172	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
173	GABA+ levels in postmenopausal women with mild-to-moderate depression. Medicine (United States), 2016, 95, e4918.	1.0	14
174	Simultaneous quantification of GABA, Glx and GSH in the neonatal human brain using magnetic resonance spectroscopy. NeuroImage, 2021, 233, 117930.	4.2	13
175	Hippocampal and striatal responses during motor learning are modulated by prefrontal cortex stimulation. NeuroImage, 2021, 237, 118158.	4.2	13
176	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
177	GABA levels in the ventromedial prefrontal cortex during the viewing of appetitive and disgusting food images. Neuroscience, 2016, 333, 114-122.	2.3	12
178	Dualâ€volume excitation and parallel reconstruction for Jâ€differenceâ€edited MR spectroscopy. Magnetic Resonance in Medicine, 2017, 77, 16-22.	3.0	12
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