

Uzay E Emir

List of Publications by Year in descending order

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76
papers

3,811
citations

159585

30
h-index

144013

57
g-index

95
all docs

95
docs citations

95
times ranked

4743
citing authors

#	ARTICLE	IF	CITATIONS
1	Clinical Proton MR Spectroscopy in Central Nervous System Disorders. <i>Radiology</i> , 2014, 270, 658-679.	7.3	524
2	Methodological consensus on clinical proton MRS of the brain: Review and recommendations. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 527-550.	3.0	280
3	Short-Term Monocular Deprivation Alters GABA in the Adult Human Visual Cortex. <i>Current Biology</i> , 2015, 25, 1496-1501.	3.9	177
4	Neurochemical and BOLD Responses during Neuronal Activation Measured in the Human Visual Cortex at 7 Tesla. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 601-610.	4.3	161
5	Elevated Pontine and Putamenal GABA Levels in Mild-Moderate Parkinson Disease Detected by 7 Tesla Proton MRS. <i>PLoS ONE</i> , 2012, 7, e30918.	2.5	156
6	Test-retest reproducibility of neurochemical profiles with short-echo, single-voxel MR spectroscopy at 3T and 7T. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1083-1091.	3.0	130
7	The dynamics of cortical GABA in human motor learning. <i>Journal of Physiology</i> , 2019, 597, 271-282.	2.9	125
8	Two-site reproducibility of cerebellar and brainstem neurochemical profiles with short-echo, single-voxel MRS at 3T. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1718-1725.	3.0	117
9	Unmasking Latent Inhibitory Connections in Human Cortex to Reveal Dormant Cortical Memories. <i>Neuron</i> , 2016, 90, 191-203.	8.1	112
10	Noninvasive Quantification of 2-Hydroxyglutarate in Human Gliomas with IDH1 and IDH2 Mutations. <i>Cancer Research</i> , 2016, 76, 43-49.	0.9	108
11	Combined fMRI-MRS acquires simultaneous glutamate and BOLD-fMRI signals in the human brain. <i>NeuroImage</i> , 2017, 155, 113-119.	4.2	106
12	Regional neurochemical profiles in the human brain measured by ¹ H MRS at 7T using local B ₁ shimming. <i>NMR in Biomedicine</i> , 2012, 25, 152-160.	2.8	104
13	Advanced single voxel ¹ H magnetic resonance spectroscopy techniques in humans: Experts' consensus recommendations. <i>NMR in Biomedicine</i> , 2021, 34, e4236.	2.8	98
14	Noninvasive quantification of ascorbate and glutathione concentration in the elderly human brain. <i>NMR in Biomedicine</i> , 2011, 24, 888-894.	2.8	96
15	Effect of the Putative Lithium Mimetic Ebselen on Brain Myo-Inositol, Sleep, and Emotional Processing in Humans. <i>Neuropsychopharmacology</i> , 2016, 41, 1768-1778.	5.4	85
16	Multi-center reproducibility of neurochemical profiles in the human brain at 7T. <i>NMR in Biomedicine</i> , 2015, 28, 306-316.	2.8	74
17	Representation of Multiple Body Parts in the Missing-Hand Territory of Congenital One-Handers. <i>Current Biology</i> , 2017, 27, 1350-1355.	3.9	71
18	Neurochemical abnormalities in premanifest and early spinocerebellar ataxias. <i>Annals of Neurology</i> , 2018, 83, 816-829.	5.3	71

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19	In vivo neurometabolic profiling in patients with spinocerebellar ataxia types 1, 2, 3, and 7. <i>Movement Disorders</i> , 2015, 30, 662-670.	3.9	63
20	The Hippocampus and Neocortical Inhibitory Engrams Protect against Memory Interference. <i>Neuron</i> , 2019, 101, 528-541.e6.	8.1	62
21	Modulating Regional Motor Cortical Excitability with Noninvasive Brain Stimulation Results in Neurochemical Changes in Bilateral Motor Cortices. <i>Journal of Neuroscience</i> , 2018, 38, 7327-7336.	3.6	55
22	Effects of the potential lithium-mimetic, ebsele, on brain neurochemistry: a magnetic resonance spectroscopy study at 7 tesla. <i>Psychopharmacology</i> , 2016, 233, 1097-1104.	3.1	49
23	A Mechanistic Link from GABA to Cortical Architecture and Perception. <i>Current Biology</i> , 2017, 27, 1685-1691.e3.	3.9	48
24	Faster Metabolite ¹ H Transverse Relaxation in the Elder Human Brain. <i>PLoS ONE</i> , 2013, 8, e77572.	2.5	47
25	Feasibility and reproducibility of neurochemical profile quantification in the human hippocampus at ³ ÅT. <i>NMR in Biomedicine</i> , 2015, 28, 685-693.	2.8	46
26	Simultaneous measurement of glucose transport and utilization in the human brain. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011, 301, E1040-E1049.	3.5	45
27	Cerebrovascular dynamics in patients with migraine: Near-infrared spectroscopy study. <i>Neuroscience Letters</i> , 2006, 400, 86-91.	2.1	39
28	Hippocampal MRS and subfield volumetry at 7T detects dysfunction not specific to seizure focus. <i>Scientific Reports</i> , 2017, 7, 16138.	3.3	39
29	Brain glutamate in medication-free depressed patients: a proton MRS study at 7 Tesla. <i>Psychological Medicine</i> , 2018, 48, 1731-1737.	4.5	39
30	Density-weighted concentric rings <i>k</i> -space trajectory for ¹ H magnetic resonance spectroscopic imaging at 7ÅT. <i>NMR in Biomedicine</i> , 2018, 31, e3838.	2.8	37
31	Comparison of Neurochemical and BOLD Signal Contrast Response Functions in the Human Visual Cortex. <i>Journal of Neuroscience</i> , 2019, 39, 7968-7975.	3.6	37
32	Learning to optimize perceptual decisions through suppressive interactions in the human brain. <i>Nature Communications</i> , 2019, 10, 474.	12.8	37
33	Effect of age and the APOE gene on metabolite concentrations in the posterior cingulate cortex. <i>NeuroImage</i> , 2017, 152, 509-516.	4.2	36
34	Non-water-suppressed short-echo-time magnetic resonance spectroscopic imaging using a concentric ring <i>k</i> -space trajectory. <i>NMR in Biomedicine</i> , 2017, 30, e3714.	2.8	33
35	Ultra-High-Field Magnetic Resonance Spectroscopy in Psychiatry. <i>Frontiers in Psychiatry</i> , 2017, 8, 123.	2.6	33
36	Two-voxel spectroscopy with dynamic <i>B</i> ₀ shimming and flip angle adjustment at 7 T in the human motor cortex. <i>NMR in Biomedicine</i> , 2015, 28, 852-860.	2.8	28

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37	Metabolite-cycled density-weighted concentric rings k-space trajectory (DW-CRT) enables high-resolution ^1H magnetic resonance spectroscopic imaging at 3-Tesla. <i>Scientific Reports</i> , 2018, 8, 7792.	3.3	28
38	Noninvasive quantification of T_2 and concentrations of ascorbate and glutathione in the human brain from the same double-edited spectra. <i>NMR in Biomedicine</i> , 2011, 24, 263-269.	2.8	26
39	Noninvasive detection of neurochemical changes prior to overt pathology in a mouse model of spinocerebellar ataxia type 1. <i>Journal of Neurochemistry</i> , 2013, 127, 660-668.	3.9	25
40	A comparison of ^2H -hydroxyglutarate detection at 3 and 7T with long-TE semi-LASER. <i>NMR in Biomedicine</i> , 2018, 31, e3886.	2.8	25
41	Sensitivity of Volumetric Magnetic Resonance Imaging and Magnetic Resonance Spectroscopy to Progression of Spinocerebellar Ataxia Type 1. <i>Movement Disorders Clinical Practice</i> , 2019, 6, 549-558.	1.5	25
42	Neurochemical changes in the pericalcarine cortex in congenital blindness attributable to bilateral anophthalmia. <i>Journal of Neurophysiology</i> , 2015, 114, 1725-1733.	1.8	24
43	Brain glutamate in anorexia nervosa: a magnetic resonance spectroscopy case control study at 7 Tesla. <i>Psychopharmacology</i> , 2017, 234, 421-426.	3.1	23
44	A Noninvasive Comparison Study between Human Gliomas with IDH1 and IDH2 Mutations by MR Spectroscopy. <i>Metabolites</i> , 2019, 9, 35.	2.9	22
45	Improved Localization for 2-Hydroxyglutarate Detection at 3 T Using Long-TE Semi-LASER. <i>Tomography</i> , 2016, 2, 94-105.	1.8	22
46	Predicting learning and achievement using GABA and glutamate concentrations in human development. <i>PLoS Biology</i> , 2021, 19, e3001325.	5.6	18
47	Changes in BOLD transients with visual stimuli across ^1H 44Hz. <i>Neuroscience Letters</i> , 2008, 436, 185-188.	2.1	16
48	Brain glutamate concentration in men with early psychosis: a magnetic resonance spectroscopy case-control study at 7T. <i>Translational Psychiatry</i> , 2021, 11, 367.	4.8	16
49	Initial experience with seven tesla magnetic resonance spectroscopy of hypothalamic GABA during hyperinsulinemic euglycemia and hypoglycemia in healthy humans. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 12-18.	3.0	15
50	Malleability of the cortical hand map following a finger nerve block. <i>Science Advances</i> , 2022, 8, eabk2393.	10.3	15
51	Memory recall involves a transient break in excitatory-inhibitory balance. <i>ELife</i> , 2021, 10, .	6.0	14
52	Noninvasive quantification of human brain antioxidant concentrations after an intravenous bolus of vitamin C. <i>NMR in Biomedicine</i> , 2011, 24, 521-528.	2.8	12
53	GABAergic inhibition in the human visual cortex relates to eye dominance. <i>Scientific Reports</i> , 2021, 11, 17022.	3.3	12
54	MRS and DTI evidence of progressive posterior cingulate cortex and corpus callosum injury in the hyper-acute phase after Traumatic Brain Injury. <i>Brain Injury</i> , 2019, 33, 854-868.	1.2	10

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55	Fast in vivo ²³ Na imaging and mapping using accelerated 2D ¹ H FID UTE magnetic resonance spectroscopic imaging at 3 T: Proof of concept and reliability study. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 1783-1794.	3.0	10
56	Comparison of 2-Hydroxyglutarate Detection With sLASER and MEGA-sLASER at 7T. <i>Frontiers in Neurology</i> , 2021, 12, 718423.	2.4	9
57	The cross-sectional interplay between neurochemical profile and brain connectivity. <i>Human Brain Mapping</i> , 2021, 42, 2722-2733.	3.6	8
58	Neurochemical and functional interactions for improved perceptual decisions through training. <i>Journal of Neurophysiology</i> , 2022, 127, 900-912.	1.8	7
59	Changes in brain Glx in depressed bipolar patients treated with lamotrigine: A proton MRS study. <i>Journal of Affective Disorders</i> , 2019, 246, 418-421.	4.1	6
60	Fat-water separation by fast metabolite cycling magnetic resonance spectroscopic imaging at 3 T: A method to generate separate quantitative distribution maps of musculoskeletal lipid components. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 1126-1139.	3.0	5
61	An In-vivo 1H-MRS short-echo time technique at 7T: Quantification of metabolites in chronic multiple sclerosis and neuromyelitis optica brain lesions and normal appearing brain tissue. <i>NeuroImage</i> , 2021, 238, 118225.	4.2	5
62	Neurochemical abnormalities in chronic fatigue syndrome: a pilot magnetic resonance spectroscopy study at 7 Tesla. <i>Psychopharmacology</i> , 2022, 239, 163-171.	3.1	5
63	Age-related decline in cortical inhibitory tone strengthens motor memory. <i>NeuroImage</i> , 2021, 245, 118681.	4.2	5
64	Implementation of Low Resolution Electro-Magnetic Tomography with fMRI Statistical Maps on Realistic Head Models. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 5239-42.	0.5	4
65	Alcohol consumption is associated with reduced creatine levels in the hippocampus of older adults. <i>Psychiatry Research - Neuroimaging</i> , 2020, 295, 111019.	1.8	4
66	High-resolution metabolic mapping of the cerebellum using 2D zoom magnetic resonance spectroscopic imaging. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2349-2358.	3.0	4
67	The effect of parietal glutamate/GABA balance on test anxiety levels in early childhood in a cross-sectional and longitudinal study. <i>Cerebral Cortex</i> , 2022, 32, 3243-3253.	2.9	3
68	In Vivo Renal Lipid Quantification by Accelerated Magnetic Resonance Spectroscopic Imaging at 3T: Feasibility and Reliability Study. <i>Metabolites</i> , 2022, 12, 386.	2.9	3
69	The relation between parietal GABA concentration and numerical skills. <i>Scientific Reports</i> , 2021, 11, 17656.	3.3	1
70	fNIRS measurements in migraine. , 2005, , .		0
71	Frequency components in breath holding experiments. , 2005, , .		0
72	Design of an MR-compatible fNIRS instrument. , 2005, , .		0

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73	Cerebral Hemodynamic Reactivity Measured by Near-Infrared Spectroscopy in Migraineurs. , 2005, 2005, 1484-7.		0
74	Magnetic resonance spectroscopy in Parkinsonâ€™s disease. , 0, , 229-237.		0
75	Relating Eye Dominance to Neurochemistry in the Human Visual Cortex Using Ultra High Field 7-Tesla MR Spectroscopy. , 2019, , .		0
76	Transient monocular deprivation affects binocular rivalry and GABA concentrations in adult human visual cortex.. Journal of Vision, 2014, 14, 378-378.	0.3	0