# 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 | Neurochemical abnormalities in chronic fatigue syndrome: a pilot magnetic resonance spectroscopy study at 7 Tesla. Psychopharmacology, 2022, 239, 163-171. | 3.1 | 5 |
| 2 | Neurochemical and functional interactions for improved perceptual decisions through training. Journal of Neurophysiology, 2022, 127, 900-912. | 1.8 | 7 |
| 3 | The effect of parietal glutamate/GABA balance on test anxiety levels in early childhood in a cross-sectional and longitudinal study. Cerebral Cortex, 2022, 32, 3243-3253. | 2.9 | 3 |
| 4 | Malleability of the cortical hand map following a finger nerve block. Science Advances, 2022, 8, eabk2393. | 10.3 | 15 |
| 5 | In Vivo Renal Lipid Quantification by Accelerated Magnetic Resonance Spectroscopic Imaging at 3T: Feasibility and Reliability Study. Metabolites, 2022, 12, 386. | 2.9 | 3 |
| 6 | Highâ€resolution metabolic mapping of the cerebellum using 2D zoom magnetic resonance spectroscopic imaging. Magnetic Resonance in Medicine, 2021, 85, 2349-2358. | 3.0 | 4 |
| 7 | Fast in vivo <sup>23</sup>Na imaging and mapping using accelerated 2Dâ€FID UTE magnetic resonance spectroscopic imaging at 3 T: Proof of concept and reliability study. Magnetic Resonance in Medicine, 2021, 85, 1783-1794. | 3.0 | 10 |
| 8 | Advanced single voxel <sup>1</sup>H magnetic resonance spectroscopy techniques in humans: Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4236. | 2.8 | 98 |
| 9 | The crossâ€sectional interplay between neurochemical profile and brain connectivity. Human Brain Mapping, 2021, 42, 2722-2733. | 3.6 | 8 |
| 10 | Brain glutamate concentration in men with early psychosis: a magnetic resonance spectroscopy caseâ€“control study at 7â€‰T. Translational Psychiatry, 2021, 11, 367. | 4.8 | 16 |
| 11 | Predicting learning and achievement using GABA and glutamate concentrations in human development. PLoS Biology, 2021, 19, e3001325. | 5.6 | 18 |
| 12 | GABAergic inhibition in the human visual cortex relates to eye dominance. Scientific Reports, 2021, 11, 17022. | 3.3 | 12 |
| 13 | 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. NeuroImage, 2021, 238, 118225. | 4.2 | 5 |
| 14 | The relation between parietal GABA concentration and numerical skills. Scientific Reports, 2021, 11, 17656. | 3.3 | 1 |
| 15 | Comparison of 2-Hydroxyglutarate Detection With sLASER and MEGA-sLASER at 7T. Frontiers in Neurology, 2021, 12, 718423. | 2.4 | 9 |
| 16 | Memory recall involves a transient break in excitatory-inhibitory balance. ELife, 2021, 10, . | 6.0 | 14 |
| 17 | Ageâ€related decline in cortical inhibitory tone strengthens motor memory. NeuroImage, 2021, 245, 118681. | 4.2 | 5 |
| 18 | Alcohol consumption is associated with reduced creatine levels in the hippocampus of older adults. Psychiatry Research - Neuroimaging, 2020, 295, 111019. | 1.8 | 4 |

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|---|---|---|---|
| 19 | Fatâ€“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. Magnetic Resonance in Medicine, 2020, 84, 1126-1139. | 3.0 | 5 |
| 20 | Comparison of Neurochemical and BOLD Signal Contrast Response Functions in the Human Visual Cortex. Journal of Neuroscience, 2019, 39, 7968-7975. | 3.6 | 37 |
| 21 | Learning to optimize perceptual decisions through suppressive interactions in the human brain. Nature Communications, 2019, 10, 474. | 12.8 | 37 |
| 22 | Sensitivity of Volumetric Magnetic Resonance Imaging and Magnetic Resonance Spectroscopy to Progression of Spinocerebellar Ataxia Type 1. Movement Disorders Clinical Practice, 2019, 6, 549-558. | 1.5 | 25 |
| 23 | MRS and DTI evidence of progressive posterior cingulate cortex and corpus callosum injury in the hyper-acute phase after Traumatic Brain Injury. Brain Injury, 2019, 33, 854-868. | 1.2 | 10 |
| 24 | Methodological consensus on clinical proton MRS of the brain: Review and recommendations. Magnetic Resonance in Medicine, 2019, 82, 527-550. | 3.0 | 280 |
| 25 | A Noninvasive Comparison Study between Human Gliomas with IDH1 and IDH2 Mutations by MR Spectroscopy. Metabolites, 2019, 9, 35. | 2.9 | 22 |
| 26 | Relating Eye Dominance to Neurochemistry in the Human Visual Cortex Using Ultra High Field 7-Tesla MR Spectroscopy. , 2019, , . | | 0 |
| 27 | Changes in brain Glx in depressed bipolar patients treated with lamotrigine: A proton MRS study. Journal of Affective Disorders, 2019, 246, 418-421. | 4.1 | 6 |
| 28 | The Hippocampus and Neocortical Inhibitory Engrams Protect against Memory Interference. Neuron, 2019, 101, 528-541.e6. | 8.1 | 62 |
| 29 | The dynamics of cortical GABA in human motor learning. Journal of Physiology, 2019, 597, 271-282. | 2.9 | 125 |
| 30 | Neurochemical abnormalities in premanifest and early spinocerebellar ataxias. Annals of Neurology, 2018, 83, 816-829. | 5.3 | 71 |
| 31 | A comparison of 2â€hydroxyglutarate detection at 3 and 7ÂT with longâ€TE semiâ€LASER. NMR in Biomedicine, 2018, 31, e3886. | 2.8 | 25 |
| 32 | Brain glutamate in medication-free depressed patients: a proton MRS study at 7 Tesla. Psychological Medicine, 2018, 48, 1731-1737. | 4.5 | 39 |
| 33 | Densityâ€weighted concentric rings kâ€space trajectory for <sup>1</sup>H magnetic resonance spectroscopic imaging at 7ÂT. NMR in Biomedicine, 2018, 31, e3838. | 2.8 | 37 |
| 34 | Metabolite-cycled density-weighted concentric rings k-space trajectory (DW-CRT) enables high-resolution 1â€‰H magnetic resonance spectroscopic imaging at 3-Tesla. Scientific Reports, 2018, 8, 7792. | 3.3 | 28 |
| 35 | Modulating Regional Motor Cortical Excitability with Noninvasive Brain Stimulation Results in Neurochemical Changes in Bilateral Motor Cortices. Journal of Neuroscience, 2018, 38, 7327-7336. | 3.6 | 55 |
| 36 | Nonâ€waterâ€suppressed shortâ€echoâ€time magnetic resonance spectroscopic imaging using a concentric ring kâ€space trajectory. NMR in Biomedicine, 2017, 30, e3714. | 2.8 | 33 |

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|---|---|---|---|
| 37 | Representation of Multiple Body Parts in the Missing-Hand Territory of Congenital One-Handers. Current Biology, 2017, 27, 1350-1355. | 3.9 | 71 |
| 38 | Combined fMRI-MRS acquires simultaneous glutamate and BOLD-fMRI signals in the human brain. NeuroImage, 2017, 155, 113-119. | 4.2 | 106 |
| 39 | A Mechanistic Link from GABA to Cortical Architecture and Perception. Current Biology, 2017, 27, 1685-1691.e3. | 3.9 | 48 |
| 40 | Effect of age and the APOE gene on metabolite concentrations in the posterior cingulate cortex. NeuroImage, 2017, 152, 509-516. | 4.2 | 36 |
| 41 | Brain glutamate in anorexia nervosa: a magnetic resonance spectroscopy case control study at 7 Tesla. Psychopharmacology, 2017, 234, 421-426. | 3.1 | 23 |
| 42 | Hippocampal MRS and subfield volumetry at 7T detects dysfunction not specific to seizure focus. Scientific Reports, 2017, 7, 16138. | 3.3 | 39 |
| 43 | Ultra-High-Field Magnetic Resonance Spectroscopy in Psychiatry. Frontiers in Psychiatry, 2017, 8, 123. | 2.6 | 33 |
| 44 | Testâ€retest reproducibility of neurochemical profiles with shortâ€echo, singleâ€voxel MR spectroscopy at 3T and 7T. Magnetic Resonance in Medicine, 2016, 76, 1083-1091. | 3.0 | 130 |
| 45 | Unmasking Latent Inhibitory Connections in Human Cortex to Reveal Dormant Cortical Memories. Neuron, 2016, 90, 191-203. | 8.1 | 112 |
| 46 | Effects of the potential lithium-mimetic, ebselen, on brain neurochemistry: a magnetic resonance spectroscopy study at 7 tesla. Psychopharmacology, 2016, 233, 1097-1104. | 3.1 | 49 |
| 47 | Effect of the Putative Lithium Mimetic Ebselen on Brain Myo-Inositol, Sleep, and Emotional Processing in Humans. Neuropsychopharmacology, 2016, 41, 1768-1778. | 5.4 | 85 |
| 48 | Noninvasive Quantification of 2-Hydroxyglutarate in Human Gliomas with IDH1 and IDH2 Mutations. Cancer Research, 2016, 76, 43-49. | 0.9 | 108 |
| 49 | Improved Localization for 2-Hydroxyglutarate Detection at 3 T Using Long-TE Semi-LASER. Tomography, 2016, 2, 94-105. | 1.8 | 22 |
| 50 | Feasibility and reproducibility of neurochemical profile quantification in the human hippocampus at 3â€‰T. NMR in Biomedicine, 2015, 28, 685-693. | 2.8 | 46 |
| 51 | Twoâ€voxel spectroscopy with dynamic B<sub>0</sub> shimming and flip angle adjustment at 7 T in the human motor cortex. NMR in Biomedicine, 2015, 28, 852-860. | 2.8 | 28 |
| 52 | Multiâ€center reproducibility of neurochemical profiles in the human brain at 7â€‰T. NMR in Biomedicine, 2015, 28, 306-316. | 2.8 | 74 |
| 53 | Short-Term Monocular Deprivation Alters GABA in the Adult Human Visual Cortex. Current Biology, 2015, 25, 1496-1501. | 3.9 | 177 |
| 54 | Two-site reproducibility of cerebellar and brainstem neurochemical profiles with short-echo, single-voxel MRS at 3T. Magnetic Resonance in Medicine, 2015, 73, 1718-1725. | 3.0 | 117 |

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| 55 | Neurochemical and BOLD Responses during Neuronal Activation Measured in the Human Visual Cortex at 7 Tesla. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 601-610. | 4.3 | 161 |
| 56 | In vivo neurometabolic profiling in patients with spinocerebellar ataxia types 1, 2, 3, and 7. Movement Disorders, 2015, 30, 662-670. | 3.9 | 63 |
| 57 | Neurochemical changes in the pericalcarine cortex in congenital blindness attributable to bilateral anophthalmia. Journal of Neurophysiology, 2015, 114, 1725-1733. | 1.8 | 24 |
| 58 | Initial experience with seven tesla magnetic resonance spectroscopy of hypothalamic <scp>GABA</scp> during hyperinsulinemic euglycemia and hypoglycemia in healthy humans. Magnetic Resonance in Medicine, 2014, 71, 12-18. | 3.0 | 15 |
| 59 | Clinical Proton MR Spectroscopy in Central Nervous System Disorders. Radiology, 2014, 270, 658-679. | 7.3 | 524 |
| 60 | Transient monocular deprivation affects binocular rivalry and GABA concentrations in adult human visual cortex.. Journal of Vision, 2014, 14, 378-378. | 0.3 | 0 |
| 61 | Nonâ€invasive detection of neurochemical changes prior to overt pathology in a mouse model of spinocerebellar ataxia type 1. Journal of Neurochemistry, 2013, 127, 660-668. | 3.9 | 25 |
| 62 | Faster Metabolite 1H Transverse Relaxation in the Elder Human Brain. PLoS ONE, 2013, 8, e77572. | 2.5 | 47 |
| 63 | Elevated Pontine and Putamenal GABA Levels in Mild-Moderate Parkinson Disease Detected by 7 Tesla Proton MRS. PLoS ONE, 2012, 7, e30918. | 2.5 | 156 |
| 64 | Regional neurochemical profiles in the human brain measured by <sup>1</sup>H MRS at 7â€‰T using local B<sub>1</sub> shimming. NMR in Biomedicine, 2012, 25, 152-160. | 2.8 | 104 |
| 65 | Noninvasive quantification of T<sub>2</sub> and concentrations of ascorbate and glutathione in the human brain from the same doubleâ€edited spectra. NMR in Biomedicine, 2011, 24, 263-269. | 2.8 | 26 |
| 66 | Noninvasive quantification of human brain antioxidant concentrations after an intravenous bolus of vitamin C. NMR in Biomedicine, 2011, 24, 521-528. | 2.8 | 12 |
| 67 | Noninvasive quantification of ascorbate and glutathione concentration in the elderly human brain. NMR in Biomedicine, 2011, 24, 888-894. | 2.8 | 96 |
| 68 | Simultaneous measurement of glucose transport and utilization in the human brain. American Journal of Physiology - Endocrinology and Metabolism, 2011, 301, E1040-E1049. | 3.5 | 45 |
| 69 | Changes in BOLD transients with visual stimuli across 1â€“44Hz. Neuroscience Letters, 2008, 436, 185-188. | 2.1 | 16 |
| 70 | Implementation of Low Resolution Electro-Magnetic Tomography with fMRI Statistical Maps on Realistic Head Models. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5239-42. | 0.5 | 4 |
| 71 | Cerebrovascular dynamics in patients with migraine: Near-infrared spectroscopy study. Neuroscience Letters, 2006, 400, 86-91. | 2.1 | 39 |
| 72 | fNIRS measurements in migraine. , 2005, , . | | 0 |

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|---|---|---|---|
| 73 | Frequency components in breath holding experiments. , 2005, , . | | 0 |
| 74 | Design of an MR-compatible fNIRS instrument. , 2005, , . | | 0 |
| 75 | Cerebral Hemodynamic Reactivity Measured by Near-Infrared Spectroscopy in Migraineurs. , 2005, 2005, 1484-7. | | 0 |
| 76 | Magnetic resonance spectroscopy in Parkinsonâ€™s disease. , 0, , 229-237. | | 0 |