

Maged Goubran

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

1,605
citations

304743

22
h-index

345221

36
g-index

73
all docs

73
docs citations

73
times ranked

2854
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | The DTI Challenge: Toward Standardized Evaluation of Diffusion Tensor Imaging Tractography for Neurosurgery. <i>Journal of Neuroimaging</i> , 2015, 25, 875-882. | 2.0 | 147 |
| 2 | The spectrum of structural and functional imaging abnormalities in temporal lobe epilepsy. <i>Annals of Neurology</i> , 2016, 80, 142-153. | 5.3 | 116 |
| 3 | Neuroinflammation-Associated Aspecific Manipulation of Mouse Predator Fear by <i>Toxoplasma gondii</i> . <i>Cell Reports</i> , 2020, 30, 320-334.e6. | 6.4 | 88 |
| 4 | Direct Visualization and Mapping of the Spatial Course of Fiber Tracts at Microscopic Resolution in the Human Hippocampus. <i>Cerebral Cortex</i> , 2017, 27, bhw010. | 2.9 | 80 |
| 5 | Lateral impacts correlate with falx cerebri displacement and corpus callosum trauma in sports-related concussions. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019, 18, 631-649. | 2.8 | 67 |
| 6 | Multimodal image registration and connectivity analysis for integration of connectomic data from microscopy to MRI. <i>Nature Communications</i> , 2019, 10, 5504. | 12.8 | 66 |
| 7 | Diffusion MRI tractography for improved transcranial MRI-guided focused ultrasound thalamotomy targeting for essential tremor. <i>NeuroImage: Clinical</i> , 2018, 19, 572-580. | 2.7 | 64 |
| 8 | In vivo ¹ H-MRI signatures of hippocampal subfield pathology in intractable epilepsy. <i>Human Brain Mapping</i> , 2016, 37, 1103-1119. | 3.6 | 61 |
| 9 | Revealing sub-voxel motions of brain tissue using phase-based amplified MRI (aMRI). <i>Magnetic Resonance in Medicine</i> , 2018, 80, 2549-2559. | 3.0 | 61 |
| 10 | The separate effects of lipids and proteins on brain MRI contrast revealed through tissue clearing. <i>NeuroImage</i> , 2017, 156, 412-422. | 4.2 | 53 |
| 11 | Magnetic resonance-guided focused ultrasound capsulotomy for refractory obsessive compulsive disorder and major depressive disorder: clinical and imaging results from two phase I trials. <i>Molecular Psychiatry</i> , 2020, 25, 1946-1957. | 7.9 | 53 |
| 12 | Hippocampal segmentation for brains with extensive atrophy using three-dimensional convolutional neural networks. <i>Human Brain Mapping</i> , 2020, 41, 291-308. | 3.6 | 45 |
| 13 | Magnetic resonance imaging and histology correlation in the neocortex in temporal lobe epilepsy. <i>Annals of Neurology</i> , 2015, 77, 237-250. | 5.3 | 43 |
| 14 | Investigation of hippocampal substructures in focal temporal lobe epilepsy with and without hippocampal sclerosis at 7T. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 1359-1370. | 3.4 | 43 |
| 15 | Transcranial MRI-guided high-intensity focused ultrasound for treatment of essential tremor: A pilot study on the correlation between lesion size, lesion location, thermal dose, and clinical outcome. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 58-65. | 3.4 | 43 |
| 16 | Improving cardiac MRI convolutional neural network segmentation on small training datasets and dataset shift: A continuous kernel cut approach. <i>Medical Image Analysis</i> , 2020, 61, 101636. | 11.6 | 42 |
| 17 | RNA-Sequencing Analysis Revealed a Distinct Motor Cortex Transcriptome in Spontaneously Recovered Mice After Stroke. <i>Stroke</i> , 2018, 49, 2191-2199. | 2.0 | 39 |
| 18 | Image registration of ex-vivo MRI to sparsely sectioned histology of hippocampal and neocortical temporal lobe specimens. <i>NeuroImage</i> , 2013, 83, 770-781. | 4.2 | 36 |

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|----|--|-----|-----------|
| 19 | In vivo normative atlas of the hippocampal subfields using multi-echo susceptibility imaging at 7 Tesla. <i>Human Brain Mapping</i> , 2014, 35, 3588-3601. | 3.6 | 36 |
| 20 | Detection of temporal lobe epilepsy using support vector machines in multi-parametric quantitative MR imaging. <i>Computerized Medical Imaging and Graphics</i> , 2015, 41, 14-28. | 5.8 | 35 |
| 21 | Predicting ¹⁵ O-Water PET cerebral blood flow maps from multi-contrast MRI using a deep convolutional neural network with evaluation of training cohort bias. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 2240-2253. | 4.3 | 30 |
| 22 | Registration of in-vivo to ex-vivo MRI of surgically resected specimens: A pipeline for histology to in-vivo registration. <i>Journal of Neuroscience Methods</i> , 2015, 241, 53-65. | 2.5 | 29 |
| 23 | Ontario Neurodegenerative Disease Research Initiative (ONDRI): Structural MRI Methods and Outcome Measures. <i>Frontiers in Neurology</i> , 2020, 11, 847. | 2.4 | 23 |
| 24 | Quantitative relaxometry and diffusion MRI for lateralization in MTS and non-MTS temporal lobe epilepsy. <i>Epilepsy Research</i> , 2014, 108, 506-516. | 1.6 | 20 |
| 25 | Comparison of semi-automated scar quantification techniques using high-resolution, 3-dimensional late-gadolinium-enhancement magnetic resonance imaging. <i>International Journal of Cardiovascular Imaging</i> , 2015, 31, 349-357. | 1.5 | 20 |
| 26 | Longitudinal Changes in Hippocampal Subfield Volume Associated with Collegiate Football. <i>Journal of Neurotrauma</i> , 2019, 36, 2762-2773. | 3.4 | 20 |
| 27 | Comparison of diffusion MRI and CLARITY fiber orientation estimates in both gray and white matter regions of human and primate brain. <i>NeuroImage</i> , 2021, 228, 117692. | 4.2 | 20 |
| 28 | Cortical Thickness Estimation in Individuals With Cerebral Small Vessel Disease, Focal Atrophy, and Chronic Stroke Lesions. <i>Frontiers in Neuroscience</i> , 2020, 14, 598868. | 2.8 | 18 |
| 29 | Longitudinal alteration of cortical thickness and volume in high-impact sports. <i>NeuroImage</i> , 2020, 217, 116864. | 4.2 | 17 |
| 30 | Deep Bayesian networks for uncertainty estimation and adversarial resistance of white matter hyperintensity segmentation. <i>Human Brain Mapping</i> , 2022, 43, 2089-2108. | 3.6 | 17 |
| 31 | The Use of Random Forests to Classify Amyloid Brain PET. <i>Clinical Nuclear Medicine</i> , 2019, 44, 784-788. | 1.3 | 15 |
| 32 | Improved Segmentation of the Intracranial and Ventricular Volumes in Populations with Cerebrovascular Lesions and Atrophy Using 3D CNNs. <i>Neuroinformatics</i> , 2021, 19, 597-618. | 2.8 | 14 |
| 33 | Automated generation of cerebral blood flow and arterial transit time maps from multiple delay arterial spin-labeled MRI. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 406-417. | 3.0 | 13 |
| 34 | Seven-Tesla MRI and neuroimaging biomarkers for Alzheimer's disease. <i>Neurosurgical Focus</i> , 2015, 39, E4. | 2.3 | 12 |
| 35 | The Use of Random Forests to Identify Brain Regions on Amyloid and FDG PET Associated With MoCA Score. <i>Clinical Nuclear Medicine</i> , 2020, 45, 427-433. | 1.3 | 12 |
| 36 | Simultaneous FDG-PET/MRI detects hippocampal subfield metabolic differences in AD/MCI. <i>Scientific Reports</i> , 2020, 10, 12064. | 3.3 | 12 |

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|----|--|-----|-----------|
| 37 | Correlative Microscopy to Localize and Characterize Iron Deposition in Alzheimer's Disease. <i>Journal of Alzheimer's Disease Reports</i> , 2020, 4, 525-536. | 2.2 | 12 |
| 38 | Brain structure and function in people recovering from COVID-19 after hospital discharge or self-isolation: a longitudinal observational study protocol. <i>CMAJ Open</i> , 2021, 9, E1114-E1119. | 2.4 | 11 |
| 39 | Technical and radiographic considerations for magnetic resonance imaging-guided focused ultrasound capsulotomy. <i>Journal of Neurosurgery</i> , 2020, 135, 291-299. | 1.6 | 8 |
| 40 | Cognitive and Neuroimaging Profiles of Older Adults With Attention Deficit/Hyperactivity Disorder Presenting to a Memory Clinic. <i>Journal of Attention Disorders</i> , 2021, , 108705472110605. | 2.6 | 8 |
| 41 | MR susceptibility contrast imaging using a 2D simultaneous multi-slice gradient-echo sequence at 7T. <i>PLoS ONE</i> , 2019, 14, e0219705. | 2.5 | 5 |
| 42 | Neuroradiologic Evaluation of MRI in High-Contact Sports. <i>Frontiers in Neurology</i> , 2021, 12, 701948. | 2.4 | 5 |
| 43 | Progressive White Matter Injury in Preclinical Dutch Cerebral Amyloid Angiopathy. <i>Annals of Neurology</i> , 2022, 92, 358-363. | 5.3 | 5 |
| 44 | Assessment of PET & ASL metabolism in the hippocampal subfields of MCI and AD using simultaneous PET-MR. <i>EJNMMI Physics</i> , 2015, 2, A73. | 2.7 | 4 |
| 45 | Predicting response to psychiatric surgery: a systematic review of neuroimaging findings. <i>Journal of Psychiatry and Neuroscience</i> , 2020, 45, 387-394. | 2.4 | 4 |
| 46 | Investigating the contribution of white matter hyperintensities and cortical thickness to empathy in neurodegenerative and cerebrovascular diseases. <i>GeroScience</i> , 2022, 44, 1575-1598. | 4.6 | 4 |
| 47 | Changes in the Cerebello-Thalamo-Cortical Network After Magnetic Resonance-Guided Focused Ultrasound Thalamotomy. <i>Brain Connectivity</i> , 2023, 13, 28-38. | 1.7 | 4 |
| 48 | Correlation between arterial spin labeling MRI and dynamic FDG on PET-MR in Alzheimer's disease and non-Alzheimer's disease patients. <i>EJNMMI Physics</i> , 2015, 2, A83. | 2.7 | 3 |
| 49 | Carotid Atherosclerosis and Cerebral Small Vessel Disease: Preliminary Results from the Canadian Atherosclerosis Imaging Network Project 1. <i>Atherosclerosis Supplements</i> , 2018, 32, 156. | 1.2 | 3 |
| 50 | Intravenous and Non-invasive Drug Delivery to the Mouse Basal Forebrain Using MRI-guided Focused Ultrasound. <i>Bio-protocol</i> , 2021, 11, e4056. | 0.4 | 3 |
| 51 | Individual feature maps: a patient-specific analysis tool with applications in temporal lobe epilepsy. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2016, 11, 53-71. | 2.8 | 1 |
| 52 | Amyloid-independent vascular contributions to cortical atrophy and cognition in a multi-center mixed cohort with low to severe small vessel disease. <i>Alzheimer's and Dementia</i> , 2021, 17, . | 0.8 | 1 |
| 53 | Detection of small human cerebral cortical lesions with MRI under different levels of Gaussian smoothing: applications in epilepsy. <i>Proceedings of SPIE</i> , 2010, , . | 0.8 | 0 |
| 54 | Robust registration of sparsely sectioned histology to ex-vivo MRI of temporal lobe resections. , 2012, , . | | 0 |

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|----|---|-----|-----------|
| 55 | P.027 Investigation of hippocampal sub-structures in HS and non-HS focal temporal lobe epilepsy at 7T. Canadian Journal of Neurological Sciences, 2016, 43, S28-S28. | 0.5 | 0 |
| 56 | P1311: In Vivo Assessment of Hippocampal Subfield Metabolism, Perfusion and Diffusion Changes in MCI and Alzheimer's Disease. Alzheimer's and Dementia, 2016, 12, P541. | 0.8 | 0 |
| 57 | [P3424]: CORRELATIVE MRI/OPTICAL/ELECTRON MICROSCOPY EVALUATION OF METAL DISTRIBUTION AND OXIDATIVE STATE IN THE ALZHEIMER'S HIPPOCAMPUS. Alzheimer's and Dementia, 2017, 13, P1129. | 0.8 | 0 |
| 58 | P3072: FEASIBILITY OF USING X-RAY FLUORESCENCE IMAGING AND ABSORPTION SPECTROSCOPY TO EVALUATE IRON DISTRIBUTION AND OXIDATIVE STATE IN THE ALZHEIMER'S DISEASE HIPPOCAMPUS. Alzheimer's and Dementia, 2018, 14, P1092. | 0.8 | 0 |
| 59 | Non-Binary Approaches for Classification of Amyloid Brain PET. , 2019, , . | | 0 |
| 60 | Abstract P359: Secondary Thalamic Atrophy Related to Brain Infarction is Associated With Post-Stroke Cognitive Impairment. Stroke, 2021, 52, . | 2.0 | 0 |
| 61 | Towards a comprehensive 3D mapping of tau progression in early Alzheimer's disease. Brain, 2021, 144, 2565-2567. | 7.6 | 0 |
| 62 | Serum oxylipins indicate subcortical ischemic vascular disease in patients with clinical stroke. Alzheimer's and Dementia, 2021, 17, . | 0.8 | 0 |
| 63 | P269. Functional Connectivity Changes Between the sgACC and Meso-Cortico-Limbic Reward Network Following Deep Brain Stimulation Versus Magnetic Resonance-Guided Focused Ultrasound Capsulotomy in Depression. Biological Psychiatry, 2022, 91, S196. | 1.3 | 0 |