# Mary A Mclean

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4192316/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 84<br>papers | 3,990<br>citations | 126907<br>33<br>h-index | 128289<br>60<br>g-index |
| 88<br>all docs | 88<br>docs citations | 88<br>times ranked | 4576<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Enhancing the spatial resolution of hyperpolarized carbonâ€13 MRI of human brain metabolism using structure guidance. Magnetic Resonance in Medicine, 2022, 87, 1301-1312. | 3.0 | 8 |
| 2 | Hyperpolarised 13C-MRI identifies the emergence of a glycolytic cell population within intermediate-risk human prostate cancer. Nature Communications, 2022, 13, 466. | 12.8 | 27 |
| 3 | Hyperpolarized 13C-Pyruvate Metabolism as a Surrogate for Tumor Grade and Poor Outcome in Renal Cell Carcinomaâ€"A Proof of Principle Study. Cancers, 2022, 14, 335. | 3.7 | 18 |
| 4 | Sodium accumulation in breast cancer predicts malignancy and treatment response. British Journal of Cancer, 2022, 127, 337-349. | 6.4 | 13 |
| 5 | Magnetization transfer imaging of ovarian cancer: initial experiences of correlation with tissue cellularity and changes following neoadjuvant chemotherapy. BJR\|Open, 2022, 4, . | 0.6 | 0 |
| 6 | Deuterium metabolic imaging and hyperpolarized 13C-MRI of the normal human brain at clinical field strength reveals differential cerebral metabolism. NeuroImage, 2022, 257, 119284. | 4.2 | 27 |
| 7 | Imaging Glioblastoma Metabolism by Using Hyperpolarized [1-<sup>13</sup>C]Pyruvate Demonstrates Heterogeneity in Lactate Labeling: A Proof of Principle Study. Radiology Imaging Cancer, 2022, 4, . | 1.6 | 17 |
| 8 | Characterization and correction of centerâ€frequency effects in Xâ€nuclear eddy current compensations on a clinical MR system. Magnetic Resonance in Medicine, 2021, 85, 2370-2376. | 3.0 | 7 |
| 9 | Investigating the relationship between diffusion kurtosis tensor imaging (DKTI) and histology within the normal human brain. Scientific Reports, 2021, 11, 8857. | 3.3 | 7 |
| 10 | Combined <sup>23</sup>Na and <sup>13</sup>C imaging at 3.0ÂTesla using a singleâ€tuned large FOV birdcage coil. Magnetic Resonance in Medicine, 2021, 86, 1734-1745. | 3.0 | 5 |
| 11 | Multiparametric MRI of early tumor response to immune checkpoint blockade in metastatic melanoma. , 2021, 9, e003125. | | 13 |
| 12 | Hyperpolarized Carbon-13 MRI for Early Response Assessment of Neoadjuvant Chemotherapy in Breast Cancer Patients. Cancer Research, 2021, 81, 6004-6017. | 0.9 | 25 |
| 13 | Molecular imaging of the prostate: Comparing total sodium concentration quantification in prostate cancer and normal tissue using dedicated <sup>13</sup>C and <sup>23</sup>Na endorectal coils. Journal of Magnetic Resonance Imaging, 2020, 51, 90-97. | 3.4 | 9 |
| 14 | Fumarate Metabolic Signature for the Detection of Reed Syndrome in Humans. Clinical Cancer Research, 2020, 26, 391-396. | 7.0 | 11 |
| 15 | Multi-site benchmarking of clinical 13C RF coils at 3T. Journal of Magnetic Resonance, 2020, 318, 106798. | 2.1 | 10 |
| 16 | Hyperpolarized <sup>13</sup>C MRI of Tumor Metabolism Demonstrates Early Metabolic Response to Neoadjuvant Chemotherapy in Breast Cancer. Radiology Imaging Cancer, 2020, 2, e200017. | 1.6 | 40 |
| 17 | Magnetic resonance fingerprinting of the pancreas at 1.5ÂT and 3.0ÂT. Scientific Reports, 2020, 10, 17563. | 3.3 | 12 |
| 18 | Hyperpolarized <sup>13</sup>C MRI: A novel approach for probing cerebral metabolism in health and neurological disease. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1137-1147. | 4.3 | 49 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Creating a clinical platform for carbonâ€13 studies using the sodiumâ€23 and proton resonances. Magnetic Resonance in Medicine, 2020, 84, 1817-1827. | 3.0 | 24 |
| 20 | Visualization of sodium dynamics in the kidney by magnetic resonance imaging in a multi-site study. Kidney International, 2020, 98, 1174-1178. | 5.2 | 17 |
| 21 | Imaging breast cancer using hyperpolarized carbon-13 MRI. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2092-2098. | 7.1 | 138 |
| 22 | Diffusion kurtosis MRI as a predictive biomarker of response to neoadjuvant chemotherapy in high grade serous ovarian cancer. Scientific Reports, 2019, 9, 10742. | 3.3 | 10 |
| 23 | Quantifying normal human brain metabolism using hyperpolarized [1â€“13C]pyruvate and magnetic resonance imaging. NeuroImage, 2019, 189, 171-179. | 4.2 | 144 |
| 24 | Multi-parametric and multi-regional histogram analysis of MRI: modality integration reveals imaging phenotypes of glioblastoma. European Radiology, 2019, 29, 4718-4729. | 4.5 | 17 |
| 25 | Sodium MRI with 3D-cones as a measure of tumour cellularity in high grade serous ovarian cancer. European Journal of Radiology Open, 2019, 6, 156-162. | 1.6 | 12 |
| 26 | Feasibility of Quantitative Magnetic Resonance Fingerprinting in Ovarian Tumors for T<sub>1</sub> and T<sub>2</sub> Mapping in a PET/MR Setting. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 509-515. | 3.7 | 13 |
| 27 | Low perfusion compartments in glioblastoma quantified by advanced magnetic resonance imaging and correlated with patient survival. Radiotherapy and Oncology, 2019, 134, 17-24. | 0.6 | 15 |
| 28 | Non-invasive assessment of glioma microstructure using VERDICT MRI: correlation with histology. European Radiology, 2019, 29, 5559-5566. | 4.5 | 27 |
| 29 | Measuring tissue sodium concentration: Crossâ€vendor repeatability and reproducibility of <sup>23</sup>Naâ€MRI across two sites. Journal of Magnetic Resonance Imaging, 2019, 50, 1278-1284. | 3.4 | 17 |
| 30 | Multi-site repeatability and reproducibility of MR fingerprinting of the healthy brain at 1.5 and 3.0â€T. NeuroImage, 2019, 195, 362-372. | 4.2 | 67 |
| 31 | Hyperpolarized carbon-13 magnetic resonance spectroscopic imaging: a clinical tool for studying tumour metabolism. British Journal of Radiology, 2018, 91, 20170688. | 2.2 | 20 |
| 32 | Imaging intralesional heterogeneity of sodium concentration in multiple sclerosis: Initial evidence from 23 Na-MRI. Journal of the Neurological Sciences, 2018, 387, 111-114. | 0.6 | 10 |
| 33 | Diagnostic evaluation of magnetization transfer and diffusion kurtosis imaging for prostate cancer detection in a re-biopsy population. European Radiology, 2018, 28, 3141-3150. | 4.5 | 31 |
| 34 | Quantification of Total and Intracellular Sodium Concentration in Primary Prostate Cancer and Adjacent Normal Prostate Tissue With Magnetic Resonance Imaging. Investigative Radiology, 2018, 53, 450-456. | 6.2 | 28 |
| 35 | Quantitative and textural analysis of magnetization transfer and diffusion images in the early detection of brain metastases. Magnetic Resonance in Medicine, 2017, 77, 1987-1995. | 3.0 | 9 |
| 36 | Assessment of early treatment response to neoadjuvant chemotherapy in breast cancer using non-mono-exponential diffusion models: a feasibility study comparing the baseline and mid-treatment MRI examinations. European Radiology, 2017, 27, 2726-2736. | 4.5 | 51 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Detecting gasâ€induced vasomotor changes via blood oxygenation levelâ€dependent contrast in healthy breast parenchyma and breast carcinoma. Journal of Magnetic Resonance Imaging, 2016, 44, 335-345. | 3.4 | 3 |
| 38 | Multiâ€institutional validation of a novel textural analysis tool for preoperative stratification of suspected thyroid tumors on diffusionâ€weighted MRI. Magnetic Resonance in Medicine, 2016, 75, 1708-1716. | 3.0 | 50 |
| 39 | A comparison of quantitative methods for clinical imaging with hyperpolarized <sup>13</sup>Câ€pyruvate. NMR in Biomedicine, 2016, 29, 387-399. | 2.8 | 83 |
| 40 | Multimodal MRI can identify perfusion and metabolic changes in the invasive margin of glioblastomas. Journal of Magnetic Resonance Imaging, 2016, 43, 487-494. | 3.4 | 41 |
| 41 | Effect of Radiofrequency Transmit Field Correction on Quantitative Dynamic Contrast-enhanced MR Imaging of the Breast at 3.0 T. Radiology, 2016, 279, 368-377. | 7.3 | 17 |
| 42 | Relationship Between Brain Glutamate Levels and Clinical Outcome in Individuals at Ultra High Risk of Psychosis. Neuropsychopharmacology, 2014, 39, 2891-2899. | 5.4 | 76 |
| 43 | 3T diffusion-weighted MRI of the thyroid gland with reduced distortion: preliminary results. British Journal of Radiology, 2013, 86, 20130022. | 2.2 | 15 |
| 44 | Advanced Ovarian Cancer: Multiparametric MR Imaging Demonstrates Response- and Metastasis-specific Effects. Radiology, 2012, 263, 149-159. | 7.3 | 89 |
| 45 | Slice-selective broadband refocusing pulses for the robust generation of crushed spin-echoes. Journal of Magnetic Resonance, 2012, 223, 129-137. | 2.1 | 8 |
| 46 | Repeatability of edited lactate and other metabolites in astrocytoma at 3T. Journal of Magnetic Resonance Imaging, 2012, 36, 468-475. | 3.4 | 9 |
| 47 | DCE and DW MRI in monitoring response to androgen deprivation therapy in patients with prostate cancer: A feasibility study. Magnetic Resonance in Medicine, 2012, 67, 778-785. | 3.0 | 68 |
| 48 | Reply to: Hippocampal Glutamate Levels and Striatal Dopamine D2/3 Receptor Occupancy in Subjects at Ultra High Risk of Psychosis. Biological Psychiatry, 2011, 70, e3-e4. | 1.3 | 0 |
| 49 | Prostate cancer metabolite quantification relative to water in <sup>1</sup>Hâ€MRSI in vivo at 3 Tesla. Magnetic Resonance in Medicine, 2011, 65, 914-919. | 3.0 | 22 |
| 50 | Apparent diffusion coefficient and vascular signal fraction measurements with magnetic resonance imaging: feasibility in metastatic ovarian cancer at 3 Tesla. European Radiology, 2010, 20, 491-496. | 4.5 | 59 |
| 51 | Dynamic contrast-enhanced MRI in ovarian cancer: Initial experience at 3 tesla in primary and metastatic disease. Magnetic Resonance in Medicine, 2010, 63, 1044-1049. | 3.0 | 44 |
| 52 | Altered Relationship Between Hippocampal Glutamate Levels and Striatal Dopamine Function in Subjects at Ultra High Risk of Psychosis. Biological Psychiatry, 2010, 68, 599-602. | 1.3 | 125 |
| 53 | Metabolic characterization of primary and metastatic ovarian cancer by <sup>1</sup>Hâ€MRS in vivo at 3T. Magnetic Resonance in Medicine, 2009, 62, 855-861. | 3.0 | 33 |
| 54 | Proton MR spectroscopy of metabolite concentrations in temporal lobe epilepsy and effect of temporal lobe resection. Epilepsy Research, 2009, 83, 168-176. | 1.6 | 27 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Glutamate Dysfunction in People with Prodromal Symptoms of Psychosis: Relationship to Gray Matter Volume. Biological Psychiatry, 2009, 66, 533-539. | 1.3 | 210 |
| 56 | Magnetic resonance spectroscopy: principles and applications in neurosurgery. British Journal of Neurosurgery, 2009, 23, 5-13. | 0.8 | 20 |
| 57 | The effect of epileptic seizures on proton MRS visible neurochemical concentrations. Epilepsy Research, 2008, 81, 36-43. | 1.6 | 9 |
| 58 | Spinal cord spectroscopy and diffusion-based tractography to assess acute disability in multiple sclerosis. Brain, 2007, 130, 2220-2231. | 7.6 | 154 |
| 59 | Proton magnetic resonance spectroscopy of malformations of cortical development causing epilepsy. Epilepsy Research, 2007, 74, 107-115. | 1.6 | 34 |
| 60 | The effect of sodium valproate on proton MRS visible neurochemical concentrations. Epilepsy Research, 2007, 74, 215-219. | 1.6 | 19 |
| 61 | Metabolite changes in early relapsingâ€“remitting multiple sclerosis. Journal of Neurology, 2006, 253, 224-230. | 3.6 | 68 |
| 62 | Magnetisation transfer ratio of choline is reduced following epileptic seizures. NMR in Biomedicine, 2006, 19, 217-222. | 2.8 | 13 |
| 63 | Concentrations and magnetization transfer ratios of metabolites in gray and white matter. Magnetic Resonance in Medicine, 2006, 56, 1365-1370. | 3.0 | 23 |
| 64 | Magnetization transfer effect on human brain metabolites and macromolecules. Magnetic Resonance in Medicine, 2005, 54, 1281-1285. | 3.0 | 12 |
| 65 | Metabolite Changes in Normal-Appearing Gray and White Matter Are Linked With Disability in Early Primary Progressive Multiple Sclerosis. Archives of Neurology, 2005, 62, 569. | 4.5 | 109 |
| 66 | Elevated white matter myo-inositol in clinically isolated syndromes suggestive of multiple sclerosis. Brain, 2004, 127, 1361-1369. | 7.6 | 193 |
| 67 | Discrimination between neurochemical and macromolecular signals in human frontal lobes using short echo time proton magnetic resonance spectroscopy. Faraday Discussions, 2004, 126, 93. | 3.2 | 13 |
| 68 | Magnetic resonance spectroscopy of cerebral cortex is normal in hereditary hyperekplexia due to mutations in the GLRA1 gene. Movement Disorders, 2003, 18, 1538-1541. | 3.9 | 2 |
| 69 | A Proton Magnetic Resonance Spectroscopy Study of Metabolites in the Occipital Lobes in Epilepsy. Epilepsia, 2003, 44, 550-558. | 5.1 | 61 |
| 70 | Proton MRS reveals frontal lobe metabolite abnormalities in idiopathic generalized epilepsy. Neurology, 2003, 61, 897-902. | 1.1 | 107 |
| 71 | Quantitative 1H MRS imaging 14 years after presenting with a clinically isolated syndrome suggestive of multiple sclerosis. Multiple Sclerosis Journal, 2002, 8, 207-210. | 3.0 | 62 |
| 72 | Brain metabolite changes in cortical grey and normal-appearing white matter in clinically early relapsing-remitting multiple sclerosis. Brain, 2002, 125, 2342-2352. | 7.6 | 255 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Reproducibility of in vivo metabolite quantification with proton magnetic resonance spectroscopic imaging. Journal of Magnetic Resonance Imaging, 2002, 15, 219-225. | 3.4 | 43 |
| 74 | A Short-echo-time Proton Magnetic Resonance Spectroscopic Imaging Study of Temporal Lobe Epilepsy. Epilepsia, 2002, 43, 1021-1031. | 5.1 | 68 |
| 75 | In Vivo Short Echo Time 1H-Magnetic Resonance Spectroscopic Imaging (MRSI) of the Temporal Lobes. NeuroImage, 2001, 14, 501-509. | 4.2 | 33 |
| 76 | Quantitative short echo time proton magnetic resonance spectroscopic imaging study of malformations of cortical development causing epilepsy. Brain, 2001, 124, 427-436. | 7.6 | 55 |
| 77 | Preliminary evidence for neuronal damage in cortical grey matter and normal appearing white matter in short duration relapsing-remitting multiple sclerosis: a quantitative MR spectroscopic imaging study. Journal of Neurology, 2001, 248, 131-138. | 3.6 | 136 |
| 78 | Quantitative analysis of short echo time1H-MRSI of cerebral gray and white matter. Magnetic Resonance in Medicine, 2000, 44, 401-411. | 3.0 | 145 |
| 79 | Multimodal MR Imaging: Functional, Diffusion Tensor, and Chemical Shift Imaging in a Patient with Localizationâ€Related Epilepsy. Epilepsia, 1999, 40, 1459-1462. | 5.1 | 54 |
| 80 | Short echo time single-voxel1H magnetic resonance spectroscopy in magnetic resonance imaging-negative temporal lobe epilepsy: Different biochemical profile compared with hippocampal sclerosis. Annals of Neurology, 1999, 45, 369-376. | 5.3 | 131 |
| 81 | Absolute metabolite quantification by in vivo NMR spectroscopy: IV. multicentre trial on MRSI localisation tests. Magnetic Resonance Imaging, 1998, 16, 1113-1125. | 1.8 | 15 |
| 82 | Approaches to Studies on Neuronal/Glial Relationships by <sup>13</sup>C-MRS Analysis. Developmental Neuroscience, 1996, 18, 434-442. | 2.0 | 66 |
| 83 | Continuing Ischemic Damage After Acute Middle Cerebral Artery Infarction in Humans Demonstrated by Short-Echo Proton Spectroscopy. Stroke, 1995, 26, 1007-1013. | 2.0 | 134 |
| 84 | Magnetic resonance neurography of the median nerve. British Journal of Radiology, 1994, 67, 1169-1172. | 2.2 | 26 |