

# Tomasz Matys

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

791  
citations

516561

16  
h-index

526166

27  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1424  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Deuterium metabolic imaging and hyperpolarized <sup>13</sup> C-MRI of the normal human brain at clinical field strength reveals differential cerebral metabolism. <i>NeuroImage</i> , 2022, 257, 119284.                                      | 2.1 | 27        |
| 2  | Imaging Glioblastoma Metabolism by Using Hyperpolarized [ <sup>13</sup> C]Pyruvate Demonstrates Heterogeneity in Lactate Labeling: A Proof of Principle Study. <i>Radiology Imaging Cancer</i> , 2022, 4, .                                   | 0.7 | 17        |
| 3  | Three dimensional MRF obtains highly repeatable and reproducible multi-parametric estimations in the healthy human brain at 1.5T and 3T. <i>NeuroImage</i> , 2021, 226, 117573.   | 2.1 | 26        |
| 4  | Investigating the relationship between diffusion kurtosis tensor imaging (DKTI) and histology within the normal human brain. <i>Scientific Reports</i> , 2021, 11, 8857.  | 1.6 | 7         |
| 5  | An Evaluation of the Tolerability and Feasibility of Combining 5-Amino-Levulinic Acid (5-ALA) with BCNU Wafers in the Surgical Management of Primary Glioblastoma. <i>Cancers</i> , 2021, 13, 3241.   | 1.7 | 3         |
| 6  | Medication-related Osteonecrosis of the Jaw. <i>Radiology</i> , 2021, 301, 548-548.   | 3.6 | 4         |
| 7  | A Neural Network Approach to Identify the Peritumoral Invasive Areas in Glioblastoma Patients by Using MR Radiomics. <i>Scientific Reports</i> , 2020, 10, 9748.  | 1.6 | 25        |
| 8  | Hyperpolarized <sup>13</sup> C MRI: A novel approach for probing cerebral metabolism in health and neurological disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 1137-1147.  | 2.4 | 49        |
| 9  | A critical appraisal of Monro's erroneous description of the cerebral interventricular foramina: Age-related magnetic resonance imaging spatial morphometry and a proposed new terminology. <i>Clinical Anatomy</i> , 2020, 33, 446-457.      | 1.5 | 4         |
| 10 | Ossification of the pterygoalar and pterygospinous ligaments: a computed tomography analysis of infratemporal fossa anatomical variants relevant to percutaneous trigeminal rhizotomy. <i>Journal of Neurosurgery</i> , 2020, 132, 1942-1951. | 0.9 | 7         |
| 11 | Clinical Evaluation of <sup>11</sup> C-Met-Avid Pituitary Lesions Using a ZTE-Based AC Method. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2019, 3, 504-508.  | 2.7 | 10        |
| 12 | Quantifying normal human brain metabolism using hyperpolarized [ <sup>13</sup> C]pyruvate and magnetic resonance imaging. <i>NeuroImage</i> , 2019, 189, 171-179.   | 2.1 | 144       |
| 13 | Multi-parametric and multi-regional histogram analysis of MRI: modality integration reveals imaging phenotypes of glioblastoma. <i>European Radiology</i> , 2019, 29, 4718-4729.  | 2.3 | 17        |
| 14 | Multimodal MRI characteristics of the glioblastoma infiltration beyond contrast enhancement. <i>Therapeutic Advances in Neurological Disorders</i> , 2019, 12, 175628641984466.   | 1.5 | 23        |
| 15 | Modern imaging of pituitary adenomas. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , 2019, 33, 101278.  | 2.2 | 54        |
| 16 | Low perfusion compartments in glioblastoma quantified by advanced magnetic resonance imaging and correlated with patient survival. <i>Radiotherapy and Oncology</i> , 2019, 134, 17-24.   | 0.3 | 15        |
| 17 | Non-invasive assessment of glioma microstructure using VERDICT MRI: correlation with histology. <i>European Radiology</i> , 2019, 29, 5559-5566.  | 2.3 | 27        |
| 18 | A Phase I Study of Pegylated Arginine Deiminase (Pegargiminase), Cisplatin, and Pemetrexed in Argininosuccinate Synthetase 1-Deficient Recurrent High-grade Glioma. <i>Clinical Cancer Research</i> , 2019, 25, 2708-2716.                    | 3.2 | 49        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Intratumoral Heterogeneity of Glioblastoma Infiltration Revealed by Joint Histogram Analysis of Diffusion Tensor Imaging. <i>Neurosurgery</i> , 2019, 85, 524-534.                                 | 0.6 | 29        |
| 20 | Imaging intralesional heterogeneity of sodium concentration in multiple sclerosis: Initial evidence from <sup>23</sup> Na-MRI. <i>Journal of the Neurological Sciences</i> , 2018, 387, 111-114.   | 0.3 | 10        |
| 21 | Local alkylating chemotherapy applied immediately after 5-ALA guided resection of glioblastoma does not provide additional benefit. <i>Journal of Neuro-Oncology</i> , 2018, 136, 273-280.         | 1.4 | 22        |
| 22 | Routine preoperative brain CT in resectable non-small cell lung cancer – Ten years experience from a tertiary UK thoracic center. <i>Lung Cancer</i> , 2018, 122, 195-199.                         | 0.9 | 6         |
| 23 | Imaging practice in low-grade gliomas among European specialized centers and proposal for a minimum core of imaging. <i>Journal of Neuro-Oncology</i> , 2018, 139, 699-711.                        | 1.4 | 26        |
| 24 | Extent of resection of peritumoral diffusion tensor imaging – detected abnormality as a predictor of survival in adult glioblastoma patients. <i>Journal of Neurosurgery</i> , 2017, 126, 234-241. | 0.9 | 54        |
| 25 | Volumetric growth rates of meningioma and its correlation with histological diagnosis and clinical outcome: a systematic review. <i>Acta Neurochirurgica</i> , 2017, 159, 435-445.                 | 0.9 | 40        |
| 26 | Multiparametric MR Imaging of Diffusion and Perfusion in Contrast-enhancing and Nonenhancing Components in Patients with Glioblastoma. <i>Radiology</i> , 2017, 284, 180-190.                      | 3.6 | 48        |
| 27 | Correlation of volumetric growth and histological grade in 50 meningiomas. <i>Acta Neurochirurgica</i> , 2017, 159, 2169-2177.   | 0.9 | 18        |
| 28 | Validation of a semi-automatic co-registration of MRI scans in patients with brain tumors during treatment follow-up. <i>NMR in Biomedicine</i> , 2016, 29, 882-889.                               | 1.6 | 11        |
| 29 | Is CT-Based Perfusion and Collateral Imaging Sensitive to Time Since Stroke Onset?. <i>Frontiers in Neurology</i> , 2015, 6, 70.   | 1.1 | 10        |
| 30 | The Aqueduct of Sylvius: Applied 3-T Magnetic Resonance Imaging Anatomy and Morphometry With Neuroendoscopic Relevance. <i>Operative Neurosurgery</i> , 2013, 73, ons132-ons140.                   | 0.4 | 8         |
| 31 | Radiation hazards and protection. , 0, , 15-27.  |     | 0         |
| 32 | Imaging with X-rays. , 0, , 28-40.   |     | 0         |
| 33 | Fluoroscopy and mammography. , 0, , 70-84.   |     | 0         |
| 34 | Film-screen radiography. , 0, , 41-55.   |     | 0         |
| 35 | Imaging with ultrasound. , 0, , 110-125.   |     | 1         |
| 36 | Basic physics. , 0, , 1-14.  |     | 0         |

| #  | ARTICLE                            | IF | CITATIONS |
|----|------------------------------------|----|-----------|
| 37 | Digital radiography. , 0, , 56-69. |    | 0         |