

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	Quantifying normal human brain metabolism using hyperpolarized [¹³ C]pyruvate and magnetic resonance imaging. <i>NeuroImage</i> , 2019, 189, 171-179.	2.1	144
2	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
3	Modern imaging of pituitary adenomas. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , 2019, 33, 101278.	2.2	54
4	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
5	Hyperpolarized ¹³ 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
6	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
7	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
8	Intratumoral Heterogeneity of Glioblastoma Infiltration Revealed by Joint Histogram Analysis of Diffusion Tensor Imaging. <i>Neurosurgery</i> , 2019, 85, 524-534.	0.6	29
9	Non-invasive assessment of glioma microstructure using VERDICT MRI: correlation with histology. <i>European Radiology</i> , 2019, 29, 5559-5566.	2.3	27
10	Deuterium metabolic imaging and hyperpolarized ¹³ C-MRI of the normal human brain at clinical field strength reveals differential cerebral metabolism. <i>NeuroImage</i> , 2022, 257, 119284.	2.1	27
11	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
12	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
13	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
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	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
16	Correlation of volumetric growth and histological grade in 50 meningiomas. <i>Acta Neurochirurgica</i> , 2017, 159, 2169-2177.	0.9	18
17	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
18	Imaging Glioblastoma Metabolism by Using Hyperpolarized [¹³ C]Pyruvate Demonstrates Heterogeneity in Lactate Labeling: A Proof of Principle Study. <i>Radiology Imaging Cancer</i> , 2022, 4, .	0.7	17

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19	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
20	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
21	Is CT-Based Perfusion and Collateral Imaging Sensitive to Time Since Stroke Onset?. <i>Frontiers in Neurology</i> , 2015, 6, 70.	1.1	10
22	Imaging intralesional heterogeneity of sodium concentration in multiple sclerosis: Initial evidence from ²³ Na-MRI. <i>Journal of the Neurological Sciences</i> , 2018, 387, 111-114.	0.3	10
23	Clinical Evaluation of ¹¹ 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
24	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
25	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
26	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
27	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
28	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
29	Medication-related Osteonecrosis of the Jaw. <i>Radiology</i> , 2021, 301, 548-548.	3.6	4
30	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
31	Imaging with ultrasound. , 0, , 110-125.		1
32	Radiation hazards and protection. , 0, , 15-27.		0
33	Imaging with X-rays. , 0, , 28-40.		0
34	Fluoroscopy and mammography. , 0, , 70-84.		0
35	Film-screen radiography. , 0, , 41-55.		0
36	Basic physics. , 0, , 1-14.		0

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37	Digital radiography. , 0, , 56-69.		0