

Jan Petr

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

1,194
citations

361045

20
h-index

433756

31
g-index

73
all docs

73
docs citations

73
times ranked

1821
citing authors

#	ARTICLE	IF	CITATIONS
1	Reproducibility of $^3\text{AT APT-CEST}$ in Healthy Volunteers and Patients With Brain Glioma. <i>Journal of Magnetic Resonance Imaging</i> , 2023, 57, 206-215.	1.9	3
2	Overestimation of grey matter atrophy in glioblastoma patients following radio(chemo)therapy. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2022, 35, 145-152.	1.1	3
3	Cerebral perfusion and the risk of cognitive decline and dementia in community dwelling older people. <i>Cerebral Circulation - Cognition and Behavior</i> , 2022, 3, 100125.	0.4	3
4	Cerebral Blood Flow of the Frontal Lobe in Untreated Children with Trigenocephaly versus Healthy Controls: An Arterial Spin Labeling Study. <i>Plastic and Reconstructive Surgery</i> , 2022, 149, 931-937.	0.7	6
5	A systematic review on the use of quantitative imaging to detect cancer therapy adverse effects in normal-appearing brain tissue. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2022, 35, 163-186.	1.1	7
6	Association of Arterial Spin Labeling Parameters With Cognitive Decline, Vascular Events, and Mortality in a Memory-Clinic Sample. <i>American Journal of Geriatric Psychiatry</i> , 2022, 30, 1298-1309.	0.6	2
7	The Open-Access European Prevention of Alzheimer's Dementia (EPAD) MRI dataset and processing workflow. <i>NeuroImage: Clinical</i> , 2022, 35, 103106.	1.4	9
8	Hemodynamic impairments within individual watershed areas in asymptomatic carotid artery stenosis by multimodal MRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 380-396.	2.4	23
9	Effects of Acquisition Parameter Modifications and Field Strength on the Reproducibility of Brain Perfusion Measurements Using Arterial Spin-Labeling. <i>American Journal of Neuroradiology</i> , 2021, 42, 109-115.	1.2	10
10	GliMR: Cross-Border Collaborations to Promote Advanced MRI Biomarkers for Glioma. <i>Journal of Medical and Biological Engineering</i> , 2021, 41, 115-125.	1.0	12
11	From research to clinical practice: a European neuroradiological survey on quantitative advanced MRI implementation. <i>European Radiology</i> , 2021, 31, 6334-6341.	2.3	19
12	The Effects of Intracranial Stenosis on Cerebral Perfusion and Cognitive Performance. <i>Journal of Alzheimer's Disease</i> , 2021, 79, 1369-1380.	1.2	8
13	Epileptogenic zone detection in MRI negative epilepsy using adaptive thresholding of arterial spin labeling data. <i>Scientific Reports</i> , 2021, 11, 10904.	1.6	8
14	Using Perfusion Contrast for Spatial Normalization of ASL MRI Images in a Pediatric Craniosynostosis Population. <i>Frontiers in Neuroscience</i> , 2021, 15, 698007.	1.4	2
15	Final Results of the Prospective Biomarker Trial PETra: ^{11}C -MET-Accumulation in Postoperative PET/MRI Predicts Outcome after Radiochemotherapy in Glioblastoma. <i>Clinical Cancer Research</i> , 2021, 27, 1351-1360.	3.2	15
16	Longitudinal relation between blood pressure, antihypertensive use and cerebral blood flow, using arterial spin labelling MRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 1756-1766.	2.4	16
17	Neuroimaging-derived phenotypes in the European Prevention of Alzheimer Dementia (EPAD) Cohort Study. <i>Alzheimer's and Dementia</i> , 2021, 17, .	0.4	0
18	The effects of intracranial stenosis on cerebral perfusion and cognitive performance. <i>Alzheimer's and Dementia</i> , 2021, 17, .	0.4	0

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19	Cortical microinfarcts in memory clinic patients are associated with reduced cerebral perfusion. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 1869-1878.	2.4	30
20	Dose dependent cerebellar atrophy in glioma patients after radio(chemo)therapy. <i>Radiotherapy and Oncology</i> , 2020, 150, 262-267.	0.3	12
21	ExploreQC: A toolbox for MRI quality control in the EPAD multicentre study. <i>Alzheimer's and Dementia</i> , 2020, 16, e041952.	0.4	0
22	ExploreASL: An image processing pipeline for multi-center ASL perfusion MRI studies. <i>NeuroImage</i> , 2020, 219, 117031.	2.1	80
23	Accurate MR Image Registration to Anatomical Reference Space for Diffuse Glioma. <i>Frontiers in Neuroscience</i> , 2020, 14, 585.	1.4	25
24	Spatial coefficient of variation of arterial spin labeling MRI as a cerebrovascular correlate of carotid occlusive disease. <i>PLoS ONE</i> , 2020, 15, e0229444.	1.1	10
25	Cerebral oxygen metabolism in adults with sickle cell disease. <i>American Journal of Hematology</i> , 2020, 95, 401-412.	2.0	31
26	Late-life brain perfusion after prenatal famine exposure. <i>Neurobiology of Aging</i> , 2019, 82, 1-9.	1.5	10
27	Cerebral perfusion changes in presymptomatic genetic frontotemporal dementia: a GENFI study. <i>Brain</i> , 2019, 142, 1108-1120.	3.7	41
28	PF742 CEREBRAL OXYGEN METABOLISM MEASUREMENTS WITH MRI IN ADULTS WITH SICKLE CELL DISEASE. <i>HemaSphere</i> , 2019, 3, 324-325.	1.2	2
29	Photon vs. proton radiochemotherapy: Effects on brain tissue volume and perfusion. <i>Radiotherapy and Oncology</i> , 2018, 128, 121-127.	0.3	48
30	Comparison of arterial spin labeling registration strategies in the multi-center GENetic frontotemporal dementia initiative (GENFI). <i>Journal of Magnetic Resonance Imaging</i> , 2018, 47, 131-140.	1.9	41
31	P1401: INVESTIGATING ARTERIAL SPIN LABELING AS A LARGE VESSEL CORRELATE OF SVD, AD, AND PD. <i>Alzheimer's and Dementia</i> , 2018, 14, P456.	0.4	3
32	P3422: PROTOCOL HARMONISATION AND IN-VIVO COMPARISON OF ARTERIAL SPIN LABELLING PERFUSION MRI FOR MULTICENTER CLINICAL TRIALS. <i>Alzheimer's and Dementia</i> , 2018, 14, P1269.	0.4	0
33	Cerebrovascular Reactivity during Prolonged Breath-Hold in Experienced Freedivers. <i>American Journal of Neuroradiology</i> , 2018, 39, 1839-1847.	1.2	7
34	OC-0594: Postoperative [11C]MET-PET predicts radiochemotherapy outcome in glioblastoma: a prospective trial. <i>Radiotherapy and Oncology</i> , 2018, 127, S310-S311.	0.3	0
35	EP-2137: Development of a modular MRI processing workflow for volumetric analysis of healthy brain tissue. <i>Radiotherapy and Oncology</i> , 2018, 127, S1177-S1178.	0.3	0
36	Effects of systematic partial volume errors on the estimation of gray matter cerebral blood flow with arterial spin labeling MRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2018, 31, 725-734.	1.1	20

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37	The spatial coefficient of variation in arterial spin labeling cerebral blood flow images. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 3184-3192.	2.4	76
38	Moments-Based Ultrasound Visual Servoing: From a Mono- to Multiplane Approach. IEEE Transactions on Robotics, 2016, 32, 1558-1564.	7.3	19
39	Early and late effects of radiochemotherapy on cerebral blood flow in glioblastoma patients measured with non-invasive perfusion MRI. Radiotherapy and Oncology, 2016, 118, 24-28.	0.3	32
40	Correction of quantification errors in pelvic and spinal lesions caused by ignoring higher photon attenuation of bone in [¹⁸ F]NaF PET/MR. Medical Physics, 2015, 42, 6468-6476.	1.6	10
41	Stability of MR brain-perfusion measurement using arterial spin labeling. EJNMMI Physics, 2015, 2, A67.	1.3	0
42	Accuracy of Parenchymal Cerebral Blood Flow Measurements Using Pseudocontinuous Arterial Spin-Labeling in Healthy Volunteers. American Journal of Neuroradiology, 2015, 36, 1816-1821.	1.2	28
43	Evaluation of <i>in vivo</i> quantification accuracy of the Ingenuity TF PET/MR. Medical Physics, 2015, 42, 5773-5781.	1.6	5
44	Template-based approach for detecting motor task activation-related hyperperfusion in pulsed ASL data. Human Brain Mapping, 2014, 35, 1179-1189.	1.9	4
45	Correction of scan time dependence of standard uptake values in oncological PET. EJNMMI Research, 2014, 4, 18.	1.1	46
46	Evaluation and automatic correction of metal-implant-induced artifacts in MR-based attenuation correction in whole-body PET/MR imaging. Physics in Medicine and Biology, 2014, 59, 2713-2726.	1.6	21
47	Modeling magnetization transfer effects of Q2TIPS bolus saturation in multi-TI pulsed arterial spin labeling. Magnetic Resonance in Medicine, 2014, 72, 1007-1014.	1.9	2
48	An automatic method for accurate volume delineation of heterogeneous tumors in PET. Medical Physics, 2013, 40, 082503.	1.6	55
49	The PET-derived tumor-to-blood standard uptake ratio (SUR) is superior to tumor SUV as a surrogate parameter of the metabolic rate of FDG. EJNMMI Research, 2013, 3, 77.	1.1	96
50	Influence and Compensation of Truncation Artifacts in MR-Based Attenuation Correction in PET/MR. IEEE Transactions on Medical Imaging, 2013, 32, 2056-2063.	5.4	37
51	Quantitative accuracy of attenuation correction in the Philips Ingenuity TF whole-body PET/MR system: a direct comparison with transmission-based attenuation correction. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2013, 26, 115-126.	1.1	61
52	Partial volume correction in arterial spin labeling using a Look-Locker sequence. Magnetic Resonance in Medicine, 2013, 70, 1535-1543.	1.9	26
53	Optimal Individual Inversion Time in Brain Arterial Spin Labeling Perfusion Magnetic Resonance Imaging. Journal of Computer Assisted Tomography, 2013, 37, 247-251.	0.5	3
54	Functional arterial spin labeling: Optimal sequence duration for motor activation mapping in clinical practice. Journal of Magnetic Resonance Imaging, 2012, 36, 1435-1444.	1.9	3

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55	A method for model-free partial volume correction in oncological PET. EJNMMI Research, 2012, 2, 16.	1.1	45
56	Improving quality of arterial spin labeling MR imaging at 3 tesla with a 32-channel coil and parallel imaging. Journal of Magnetic Resonance Imaging, 2012, 35, 1233-1239.	1.9	23
57	Arterial spin labeling for motor activation mapping at 3T with a 32-channel coil: Reproducibility and spatial accuracy in comparison with BOLD fMRI. NeuroImage, 2011, 58, 157-167.	2.1	42
58	Evaluation of functional arterial spin labeling data using a perfusion template. BMC Neuroscience, 2011, 12, .	0.8	1
59	Construction and evaluation of a quantitative arterial spin labeling brain perfusion template at 3T. , 2011, , .		2
60	Improving arterial spin labeling data by temporal filtering. Proceedings of SPIE, 2010, , .	0.8	7
61	Denoising arterial spin labeling MRI using tissue partial volume. , 2010, , .		9
62	Continuous criterion for parallel MRI reconstruction using B-spline approximation (PROBER). , 2007, , .		0
63	Parallel image reconstruction using B-spline approximation (PROBER). Magnetic Resonance in Medicine, 2007, 58, 582-591.	1.9	8
64	Fast parallel MRI reconstruction using B-spline approximation (PROBER). , 2006, , .		2
65	A Beginner's Guide to Arterial Spin Labeling (ASL) Image Processing. Frontiers in Radiology, 0, 2, .	1.2	8