Jan Petr

List of Publications by Year
in descending order

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	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
2	ExploreASL: An image processing pipeline for multi-center ASL perfusion MRI studies. NeuroImage, 2020, 219, 117031.	2.1	80
3	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
4	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
5	An automatic method for accurate volume delineation of heterogeneous tumors in PET. Medical Physics, 2013, 40, 082503.	1.6	55
6	Photon vs. proton radiochemotherapy: Effects on brain tissue volume and perfusion. Radiotherapy and Oncology, 2018, 128, 121-127.	0.3	48
7	Correction of scan time dependence of standard uptake values in oncological PET. EJNMMI Research, 2014, 4, 18.	1.1	46
8	A method for model-free partial volume correction in oncological PET. EJNMMI Research, 2012, 2, 16.	1.1	45
9	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
10	Comparison of arterial spin labeling registration strategies in the multiâ€center GENetic frontotemporal dementia initiative (GENFI). Journal of Magnetic Resonance Imaging, 2018, 47, 131-140.	1.9	41
11	Cerebral perfusion changes in presymptomatic genetic frontotemporal dementia: a GENFI study. Brain, 2019, 142, 1108-1120.	3.7	41
12	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
13	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
14	Cerebral oxygen metabolism in adults with sickle cell disease. American Journal of Hematology, 2020, 95, 401-412.	2.0	31
15	Cortical microinfarcts in memory clinic patients are associated with reduced cerebral perfusion. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1869-1878.	2.4	30
16	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
17	Partial volume correction in arterial spin labeling using a Lookâ€Locker sequence. Magnetic Resonance in Medicine, 2013, 70, 1535-1543.	1.9	26
18	Accurate MR Image Registration to Anatomical Reference Space for Diffuse Glioma. Frontiers in Neuroscience, 2020, 14, 585.	1.4	25

#	Article	IF	Citations
19	Improving quality of arterial spin labeling MR imaging at 3 tesla with a 32â€channel coil and parallel imaging. Journal of Magnetic Resonance Imaging, 2012, 35, 1233-1239.	1.9	23
20	Hemodynamic impairments within individual watershed areas in asymptomatic carotid artery stenosis by multimodal MRI. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 380-396.	2.4	23
21	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
22	Effects of systematic partial volume errors on the estimation of gray matter cerebral blood flow with arterial spin labeling MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2018, 31, 725-734.	1.1	20
23	Moments-Based Ultrasound Visual Servoing: From a Mono- to Multiplane Approach. IEEE Transactions on Robotics, 2016, 32, 1558-1564.	7.3	19
24	From research to clinical practice: a European neuroradiological survey on quantitative advanced MRI implementation. European Radiology, 2021, 31, 6334-6341.	2.3	19
25	Longitudinal relation between blood pressure, antihypertensive use and cerebral blood flow, using arterial spin labelling MRI. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 1756-1766.	2.4	16
26	Final Results of the Prospective Biomarker Trial PETra: [11C]-MET-Accumulation in Postoperative PET/MRI Predicts Outcome after Radiochemotherapy in Glioblastoma. Clinical Cancer Research, 2021, 27, 1351-1360.	3.2	15
27	Dose dependent cerebellar atrophy in glioma patients after radio(chemo)therapy. Radiotherapy and Oncology, 2020, 150, 262-267.	0.3	12
28	GliMR: Cross-Border Collaborations to Promote Advanced MRI Biomarkers for Glioma. Journal of Medical and Biological Engineering, 2021, 41, 115-125.	1.0	12
29	Correction of quantification errors in pelvic and spinal lesions caused by ignoring higher photon attenuation of bone in [¹⁸F]NaF PET/MR. Medical Physics, 2015, 42, 6468-6476.	1.6	10
30	Late-life brain perfusion after prenatal famine exposure. Neurobiology of Aging, 2019, 82, 1-9.	1.5	10
31	Spatial coefficient of variation of arterial spin labeling MRI as a cerebrovascular correlate of carotid occlusive disease. PLoS ONE, 2020, 15, e0229444.	1.1	10
32	Effects of Acquisition Parameter Modifications and Field Strength on the Reproducibility of Brain Perfusion Measurements Using Arterial Spin-Labeling. American Journal of Neuroradiology, 2021, 42, 109-115.	1.2	10
33	Denoising arterial spin labeling MRI using tissue partial volume. , 2010, , .		9
34	The Open-Access European Prevention of Alzheimerâ€™s Dementia (EPAD) MRI dataset and processing workflow. NeuroImage: Clinical, 2022, 35, 103106.	1.4	9
35	Parallel image reconstruction using Bâ€spline approximation (PROBER). Magnetic Resonance in Medicine, 2007, 58, 582-591.	1.9	8
36	The Effects of Intracranial Stenosis on Cerebral Perfusion and Cognitive Performance. Journal of Alzheimer's Disease, 2021, 79, 1369-1380.	1.2	8

#	Article	IF	Citations
37	Epileptogenic zone detection in MRI negative epilepsy using adaptive thresholding of arterial spin labeling data. Scientific Reports, 2021, 11, 10904.	1.6	8
38	A Beginner's Guide to Arterial Spin Labeling (ASL) Image Processing. Frontiers in Radiology, 0, 2, .	1.2	8
39	Improving arterial spin labeling data by temporal filtering. Proceedings of SPIE, 2010, , .	0.8	7
40	Cerebrovascular Reactivity during Prolonged Breath-Hold in Experienced Freedivers. American Journal of Neuroradiology, 2018, 39, 1839-1847.	1.2	7
41	A systematic review on the use of quantitative imaging to detect cancer therapy adverse effects in normal-appearing brain tissue. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2022, 35, 163-186.	1.1	7
42	Cerebral Blood Flow of the Frontal Lobe in Untreated Children with Trigonocephaly versus Healthy Controls: An Arterial Spin Labeling Study. Plastic and Reconstructive Surgery, 2022, 149, 931-937.	0.7	6
43	Evaluation of in vivo quantification accuracy of the Ingenuityâ€TF PET/MR. Medical Physics, 2015, 42, 5773-5781.	1.6	5
44	Templateâ€based approach for detecting motor task activationâ€related hyperperfusion in pulsed ASL data. Human Brain Mapping, 2014, 35, 1179-1189.	1.9	4
45	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
46	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
47	P1â€401: INVESTIGATING ARTERIAL SPIN LABELING AS A LARGE VESSEL CORRELATE OF SVD, AD, AND PD. Alzheimer's and Dementia, 2018, 14, P456.	0.4	3
48	Overestimation of grey matter atrophy in glioblastoma patients following radio(chemo)therapy. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2022, 35, 145-152.	1.1	3
49	Cerebral perfusion and the risk of cognitive decline and dementia in community dwelling older people. Cerebral Circulation - Cognition and Behavior, 2022, 3, 100125.	0.4	3
50	Reproducibility of <scp>3ÂT APTâ€CEST</scp> in Healthy Volunteers and Patients With Brain Glioma. Journal of Magnetic Resonance Imaging, 2023, 57, 206-215.	1.9	3
51	Fast parallel MRI reconstruction using B-spline approximation (PROBER). , 2006, , .		2
52	Construction and evaluation of a quantitative arterial spin labeling brain perfusion template at 3T. , 2011, , .		2
53	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
54	Using Perfusion Contrast for Spatial Normalization of ASL MRI Images in a Pediatric Craniosynostosis Population. Frontiers in Neuroscience, 2021, 15, 698007.	1.4	2

#	Article	IF	Citations
55	PF742 CEREBRAL OXYGEN METABOLISM MEASUREMENTS WITH MRI IN ADULTS WITH SICKLE CELL DISEASE. HemaSphere, 2019, 3, 324-325.	1.2	2
56	Association of Arterial Spin Labeling Parameters With Cognitive Decline, Vascular Events, and Mortality in a Memory-Clinic Sample. American Journal of Geriatric Psychiatry, 2022, 30, 1298-1309.	0.6	2
57	Evaluation of functional arterial spin labeling data using a perfusion template. BMC Neuroscience, 2011, 12, .	0.8	1
58	Continuous criterion for parallel MRI reconstruction using B-spline approximation (PROBER). , 2007, , .		0
59	Stability of MR brain-perfusion measurement using arterial spin labeling. EJNMMI Physics, 2015, 2, A67.	1.3	0
60	P3â€422: PROTOCOL HARMONISATION AND INâ€VIVO COMPARISON OF ARTERIAL SPIN LABELLING PERFUSION MRI FOR MULTICENTER CLINICAL TRIALS. Alzheimer's and Dementia, 2018, 14, P1269.	0.4	0
61	OC-0594: Postoperative [11C]MET-PET predicts radiochemotherapy outcome in glioblastoma: a prospective trial. Radiotherapy and Oncology, 2018, 127, S310-S311.	0.3	0
62	EP-2137: Development of a modular MRI processing workflow for volumetric analysis of healthy brain tissue. Radiotherapy and Oncology, 2018, 127, S1177-S1178.	0.3	0
63	ExploreQC: A toolbox for MRI quality control in the EPAD multicentre study. Alzheimer's and Dementia, 2020, 16, e041952.	0.4	0
64	Neuroimagingâ€derived phenotypes in the European Prevention of Alzheimer Dementia (EPAD) Cohort Study. Alzheimer's and Dementia, 2021, 17, .	0.4	0
65	The effects of intracranial stenosis on cerebral perfusion and cognitive performance. Alzheimer's and Dementia, 2021, 17, .	0.4	0