

Jay J Pillai

List of Publications by Year in descending order

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Version: 2024-02-01

89
papers

2,733
citations

218592

26
h-index

206029

48
g-index

92
all docs

92
docs citations

92
times ranked

3257
citing authors

#	ARTICLE	IF	CITATIONS
1	Inflow-based vascular-space-occupancy (iVASO) might potentially predict IDH mutation status and tumor grade in diffuse cerebral gliomas. <i>Journal of Neuroradiology</i> , 2022, 49, 267-274.	0.6	3
2	Breath-Hold Cerebrovascular Mapping for Neurovascular Assessment in Primary. <i>Neuroinformatics</i> , 2022, , 167-183.	0.2	0
3	Tumor Connectomics: Mapping the Intra-Tumoral Complex Interaction Network Using Machine Learning. <i>Cancers</i> , 2022, 14, 1481.	1.7	1
4	Utility of diffusion-weighted imaging by oculoplastic surgeons to differentiate benign and malignant solid orbital tumours. <i>Canadian Journal of Ophthalmology</i> , 2022, , .	0.4	0
5	Dynamic Brain Connectivity in Resting State Functional MR Imaging. <i>Neuroimaging Clinics of North America</i> , 2021, 31, 81-92.	0.5	13
6	The Problem of Neurovascular Uncoupling. <i>Neuroimaging Clinics of North America</i> , 2021, 31, 53-67.	0.5	13
7	Histogram-based analysis of cerebral blood flow using arterial spin labeling MRI in de novo brain gliomas: relationship to histopathologic grade and molecular markers. <i>Neuroradiology</i> , 2021, 63, 751-760.	1.1	2
8	A Multi-scale Spatial and Temporal Attention Network on Dynamic Connectivity to Localize the Eloquent Cortex in Brain Tumor Patients. <i>Lecture Notes in Computer Science</i> , 2021, , 241-252.	1.0	2
9	Noncontrast assessment of blood-brain barrier permeability to water: Shorter acquisition, test-retest reproducibility, and comparison with contrast-based method. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 143-156.	1.9	16
10	Role of Functional Magnetic Resonance Imaging in the Presurgical Mapping of Brain Tumors. <i>Radiological Clinics of North America</i> , 2021, 59, 377-393.	0.9	8
11	Three-dimensional assessment of brain arterial compliance: Technical development, comparison with aortic pulse wave velocity, and age effect. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 1917-1928.	1.9	3
12	Blood-Brain Barrier Breakdown in Relationship to Alzheimer and Vascular Disease. <i>Annals of Neurology</i> , 2021, 90, 227-238.	2.8	57
13	A novel radiographic marker of sarcopenia with prognostic value in glioblastoma. <i>Clinical Neurology and Neurosurgery</i> , 2021, 207, 106782.	0.6	21
14	Effects of Thresholding on Voxel-Wise Correspondence of Breath-Hold and Resting-State Maps of Cerebrovascular Reactivity. <i>Frontiers in Neuroscience</i> , 2021, 15, 654957.	1.4	3
15	Identification of the Somatomotor Network from Language Task-based fMRI Compared with Resting-State fMRI in Patients with Brain Lesions. <i>Radiology</i> , 2021, 301, 178-184.	3.6	7
16	Automated eloquent cortex localization in brain tumor patients using multi-task graph neural networks. <i>Medical Image Analysis</i> , 2021, 74, 102203.	7.0	12
17	MR fingerprinting ASL: Sequence characterization and comparison with dynamic susceptibility contrast (DSC) MRI. <i>NMR in Biomedicine</i> , 2020, 33, e4202.	1.6	11
18	Whole-Brain Functional and Diffusion Tensor MRI in Human Participants with Metallic Orthodontic Braces. <i>Radiology</i> , 2020, 294, 149-157.	3.6	12

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19	Association of cerebrovascular reactivity and Alzheimer pathologic markers with cognitive performance. <i>Neurology</i> , 2020, 95, e962-e972.	1.5	39
20	Nimodipine improves cortical efficiency during working memory in healthy subjects. <i>Translational Psychiatry</i> , 2020, 10, 372.	2.4	11
21	Brain Oxygen Extraction Is Differentially Altered by Alzheimer's and Vascular Diseases. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 52, 1829-1837.	1.9	33
22	Fast whole brain MR imaging of dynamic susceptibility contrast changes in the cerebrospinal fluid (cDSC MRI). <i>Magnetic Resonance in Medicine</i> , 2020, 84, 3256-3270.	1.9	12
23	Discrimination between Glioblastoma and Solitary Brain Metastasis: Comparison of Inflow-Based Vascular-Space-Occupancy and Dynamic Susceptibility Contrast MR Imaging. <i>American Journal of Neuroradiology</i> , 2020, 41, 583-590.	1.2	13
24	A Multi-task Deep Learning Framework to Localize the Eloquent Cortex in Brain Tumor Patients Using Dynamic Functional Connectivity. <i>Lecture Notes in Computer Science</i> , 2020, , 34-44.	1.0	2
25	Cognitive effort decreases beta, alpha, and theta coherence and ends after discharges in human brain. <i>Clinical Neurophysiology</i> , 2019, 130, 2169-2181.	0.7	5
26	Brain Oxygen Extraction by Using MRI in Older Individuals: Relationship to Apolipoprotein E Genotype and Amyloid Burden. <i>Radiology</i> , 2019, 292, 140-148.	3.6	20
27	Supratentorial White Matter Tracts. , 2019, , 23-35.		8
28	Preoperative Imaging (MRI, Functional MRI, CT). , 2019, , 207-222.		0
29	Language Mapping With fMRI. <i>Topics in Magnetic Resonance Imaging</i> , 2019, 28, 225-233.	0.7	24
30	Functional Magnetic Resonance Imaging Activation Optimization in the Setting of Brain Tumor-Induced Neurovascular Uncoupling Using Resting-State Blood Oxygen Level-Dependent Amplitude of Low Frequency Fluctuations. <i>Brain Connectivity</i> , 2019, 9, 241-250.	0.8	12
31	A Novel Graph Neural Network to Localize Eloquent Cortex in Brain Tumor Patients from Resting-State fMRI Connectivity. <i>Lecture Notes in Computer Science</i> , 2019, , 10-20.	1.0	7
32	Non-contrast MR imaging of blood-brain barrier permeability to water. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1507-1520.	1.9	56
33	Mapping the trajectory of the amygdalothalamic tract in the human brain. <i>Journal of Neuroscience Research</i> , 2018, 96, 1176-1185.	1.3	9
34	Cardiac-triggered pseudo-continuous arterial spin labeling: A cost-effective scheme to further enhance the reliability of arterial spin labeling MRI. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 969-975.	1.9	10
35	Three-dimensional mapping of brain venous oxygenation using oximetry. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1304-1313.	1.9	11
36	Repeatability of language fMRI lateralization and localization metrics in brain tumor patients. <i>Human Brain Mapping</i> , 2018, 39, 4733-4742.	1.9	14

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37	Preoperative Mapping of the Supplementary Motor Area in Patients with Brain Tumor Using Resting-State fMRI with Seed-Based Analysis. American Journal of Neuroradiology, 2018, 39, 1493-1498.	1.2	18
38	Defining Patient Specific Functional Parcellations in Lesional Cohorts via Markov Random Fields. Lecture Notes in Computer Science, 2018, , 88-98.	1.0	2
39	Implications of neurovascular uncoupling in functional magnetic resonance imaging (fMRI) of brain tumors. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 3475-3487.	2.4	77
40	Presurgical Brain Mapping of the Ventral Somatomotor Network in Patients with Brain Tumors Using Resting-State fMRI. American Journal of Neuroradiology, 2017, 38, 1006-1012.	1.2	19
41	The Resting-State Functional Magnetic Resonance Imaging Regional Homogeneity Metricsâ€™ Kendall's Coefficient of Concordance-Regional Homogeneity and Coherence-Regional Homogeneityâ€™ Are Valid Indicators of Tumor-Related Neurovascular Uncoupling. Brain Connectivity, 2017, 7, 228-235.	0.8	21
42	Restingâ€™state functional connectivity and cognitive dysfunction correlations in spinocerebellar ataxia type 6 (SCA6). Human Brain Mapping, 2017, 38, 3001-3010.	1.9	12
43	Dynamic Functional Connectivity States Between the Dorsal and Ventral Sensorimotor Networks Revealed by Dynamic Conditional Correlation Analysis of Resting-State Functional Magnetic Resonance Imaging. Brain Connectivity, 2017, 7, 635-642.	0.8	12
44	Application of Resting State Functional MR Imaging to Presurgical Mapping. Neuroimaging Clinics of North America, 2017, 27, 635-644.	0.5	19
45	Limitations of Resting-State Functional MR Imaging in the Setting of Focal Brain Lesions. Neuroimaging Clinics of North America, 2017, 27, 645-661.	0.5	16
46	Functional Connectivity. Neuroimaging Clinics of North America, 2017, 27, xvii.	0.5	0
47	CT in the Evaluation of Acute Injuries of the Anterior Eye Segment. American Journal of Roentgenology, 2017, 209, 1353-1359.	1.0	12
48	American Society of Functional Neuroradiologyâ€™ Recommended fMRI Paradigm Algorithms for Presurgical Language Assessment. American Journal of Neuroradiology, 2017, 38, E65-E73.	1.2	114
49	Value of Frequency Domain Resting-State Functional Magnetic Resonance Imaging Metrics Amplitude of Low-Frequency Fluctuation and Fractional Amplitude of Low-Frequency Fluctuation in the Assessment of Brain Tumor-Induced Neurovascular Uncoupling. Brain Connectivity, 2017, 7, 382-389.	0.8	28
50	Language Mapping Using T2-Prepared BOLD Functional MRI in the Presence of Large Susceptibility Artifactsâ€™ Initial Results in Patients With Brain Tumor and Epilepsy. Tomography, 2017, 3, 105-113.	0.8	9
51	Wholeâ€™brain amide proton transfer (APT) and nuclear overhauser enhancement (NOE) imaging in glioma patients using lowâ€™power steadyâ€™state pulsed chemical exchange saturation transfer (CEST) imaging at 7T. Journal of Magnetic Resonance Imaging, 2016, 44, 41-50.	1.9	91
52	Presurgical brain mapping of the language network in patients with brain tumors using restingâ€™state fMRI: Comparison with task fMRI. Human Brain Mapping, 2016, 37, 913-923.	1.9	99
53	Factors affecting characterization and localization of interindividual differences in functional connectivity using MRI. Human Brain Mapping, 2016, 37, 1986-1997.	1.9	63
54	Reporting of Resting-State Functional Magnetic Resonance Imaging Preprocessing Methodologies. Brain Connectivity, 2016, 6, 663-668.	0.8	27

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55	Measurement of arteriolar blood volume in brain tumors using MRI without exogenous contrast agent administration at 7T. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 44, 1244-1255.	1.9	13
56	Neurovascular uncoupling in resting state fMRI demonstrated in patients with primary brain gliomas. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 620-626.	1.9	64
57	Demonstration of Brain Tumor-Induced Neurovascular Uncoupling in Resting-State fMRI at Ultrahigh Field. <i>Brain Connectivity</i> , 2016, 6, 267-272.	0.8	33
58	Cerebrovascular Reactivity Mapping: An Evolving Standard for Clinical Functional Imaging. <i>American Journal of Neuroradiology</i> , 2015, 36, 7-13.	1.2	125
59	Presurgical fMRI and DTI for the Prediction of Perioperative Motor and Language Deficits in Primary or Metastatic Brain Lesions. <i>Journal of Neuroimaging</i> , 2015, 25, 776-784.	1.0	39
60	Delayed posthypoxic leukoencephalopathy: a case series and review of the literature. <i>Brain and Behavior</i> , 2015, 5, e00364.	1.0	69
61	Imaging of the Functional and Dysfunctional Visual System. <i>Seminars in Ultrasound, CT and MRI</i> , 2015, 36, 234-248.	0.7	12
62	Cerebrovascular reactivity mapping in patients with low grade gliomas undergoing presurgical sensorimotor mapping with BOLD fMRI. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 383-390.	1.9	94
63	Special Considerations/Technical Limitations of Blood-Oxygen-Level-Dependent Functional Magnetic Resonance Imaging. <i>Neuroimaging Clinics of North America</i> , 2014, 24, 705-715.	0.5	12
64	Clinical Applications of Functional MRI. <i>Neuroimaging Clinics of North America</i> , 2014, 24, xvii.	0.5	2
65	Cranial intraosseous meningioma: spectrum of neuroimaging findings with respect to histopathological grades in 65 patients. <i>Clinical Imaging</i> , 2014, 38, 599-604.	0.8	18
66	BOLD fMRI for Presurgical Planning: Part I. , 2014, , 59-78.		4
67	Nuclear Overhauser enhancement (NOE) imaging in the human brain at 7T. <i>NeuroImage</i> , 2013, 77, 114-124.	2.1	266
68	Presurgical Lateralization of Seizure Focus in Temporal Lobe Epilepsy With Noninvasive Imaging. <i>Clinical Nuclear Medicine</i> , 2012, 37, 1179-1181.	0.7	1
69	Comparison of BOLD Cerebrovascular Reactivity Mapping and DSC MR Perfusion Imaging for Prediction of Neurovascular Uncoupling Potential in Brain Tumors. <i>Technology in Cancer Research and Treatment</i> , 2012, 11, 361-374.	0.8	62
70	Effectiveness of four different clinical fMRI paradigms for preoperative regional determination of language lateralization in patients with brain tumors. <i>Neuroradiology</i> , 2012, 54, 1015-1025.	1.1	61
71	Relative utility for hemispheric lateralization of different clinical fMRI activation tasks within a comprehensive language paradigm battery in brain tumor patients as assessed by both threshold-dependent and threshold-independent analysis methods. <i>NeuroImage</i> , 2011, 54, S136-S145.	2.1	53
72	Clinical utility of cerebrovascular reactivity mapping in patients with low grade gliomas. <i>World Journal of Clinical Oncology</i> , 2011, 2, 397.	0.9	61

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73	Cerebrovascular reactivity mapping for brain tumor presurgical planning. World Journal of Clinical Oncology, 2011, 2, 289.	0.9	46
74	DTI and fMRI: Review of Complementary Techniques. , 2011, , 803-830.		0
75	The Evolution of Clinical Functional Imaging during the Past 2 Decades and Its Current Impact on Neurosurgical Planning. American Journal of Neuroradiology, 2010, 31, 219-225.	1.2	96
76	Clinical Impact of Integrated Physiologic Brain Tumor Imaging. Technology in Cancer Research and Treatment, 2010, 9, 359-380.	0.8	21
77	Insights into Adult Postlesional Language Cortical Plasticity Provided by Cerebral Blood Oxygen Level-Dependent Functional MR Imaging. American Journal of Neuroradiology, 2010, 31, 990-996.	1.2	23
78	Long-term neuropsychological follow-up of a child with Klí¼ver-Bucy syndrome. Epilepsy and Behavior, 2010, 19, 643-646.	0.9	8
79	Functional Imaging in Temporal Lobe Epilepsy. Seminars in Ultrasound, CT and MRI, 2007, 28, 437-450.	0.7	12
80	Neural Substrates of Emotion as Revealed by Functional Magnetic Resonance Imaging. Cognitive and Behavioral Neurology, 2004, 17, 9-17.	0.5	119
81	Functional MR imaging study of language-related differences in bilingual cerebellar activation. American Journal of Neuroradiology, 2004, 25, 523-32.	1.2	18
82	What is the fate of disconnected brain tissue in a child with Rasmussen syndrome? A case report. Neuroradiology, 2003, 45, 250-252.	1.1	2
83	Functional MRI study of semantic and phonological language processing in bilingual subjects: preliminary findings†. Neurolmage, 2003, 19, 565-576.	2.1	102
84	A longitudinal MRI study in children with Rasmussen syndrome. Pediatric Neurology, 2002, 27, 282-288.	1.0	23
85	Increased presence of white matter hyperintensities in adolescent patients with bipolar disorder. Psychiatry Research - Neuroimaging, 2002, 114, 51-56.	0.9	115
86	Brain Atlas for Functional Imaging: Clinical and Research Applications. Journal of Magnetic Resonance Imaging, 2002, 16, 328-329.	1.9	0
87	Advanced MR imaging of cortical dysplasia with or without neoplasm: a report of two cases. American Journal of Neuroradiology, 2002, 23, 1686-91.	1.2	6
88	Initial Angiographic Appearance of Intracranial Vascular Occlusions in Acute Stroke as a Predictor of Outcome of Thrombolysis: Initial Experience. Radiology, 2001, 218, 733-738.	3.6	32
89	Renal Involvement in Association with Postvaccination Varicella. Clinical Infectious Diseases, 1993, 17, 1079-1080.	2.9	12