Jay J Pillai

List of Publications by Year
in descending order

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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	Nuclear Overhauser enhancement (NOE) imaging in the human brain at 7T. NeuroImage, 2013, 77, 114-124.	2.1	266
2	Cerebrovascular Reactivity Mapping: An Evolving Standard for Clinical Functional Imaging. American Journal of Neuroradiology, 2015, 36, 7-13.	1.2	125
3	Neural Substrates of Emotion as Revealed by Functional Magnetic Resonance Imaging. Cognitive and Behavioral Neurology, 2004, 17, 9-17.	0.5	119
4	Increased presence of white matter hyperintensities in adolescent patients with bipolar disorder. Psychiatry Research - Neuroimaging, 2002, 114, 51-56.	0.9	115
5	American Society of Functional Neuroradiologyâ€“Recommended fMRI Paradigm Algorithms for Presurgical Language Assessment. American Journal of Neuroradiology, 2017, 38, E65-E73.	1.2	114
6	Functional MRI study of semantic and phonological language processing in bilingual subjects: preliminary findingsâ†. NeuroImage, 2003, 19, 565-576.	2.1	102
7	Presurgical brain mapping of the language network in patients with brain tumors using restingâ€state f<scp>MRI</scp>: Comparison with task f<scp>MRI</scp>. Human Brain Mapping, 2016, 37, 913-923.	1.9	99
8	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
9	Cerebrovascular reactivity mapping in patients with low grade gliomas undergoing presurgical sensorimotor mapping with BOLD fMRI. Journal of Magnetic Resonance Imaging, 2014, 40, 383-390.	1.9	94
10	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
11	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
12	Delayed posthypoxic leukoencephalopathy: a case series and review of the literature. Brain and Behavior, 2015, 5, e00364.	1.0	69
13	Neurovascular uncoupling in resting state fMRI demonstrated in patients with primary brain gliomas. Journal of Magnetic Resonance Imaging, 2016, 43, 620-626.	1.9	64
14	Factors affecting characterization and localization of interindividual differences in functional connectivity using MRI. Human Brain Mapping, 2016, 37, 1986-1997.	1.9	63
15	Comparison of BOLD Cerebrovascular Reactivity Mapping and DSC MR Perfusion Imaging for Prediction of Neurovascular Uncoupling Potential in Brain Tumors. Technology in Cancer Research and Treatment, 2012, 11, 361-374.	0.8	62
16	Clinical utility of cerebrovascular reactivity mapping in patients with low grade gliomas. World Journal of Clinical Oncology, 2011, 2, 397.	0.9	61
17	Effectiveness of four different clinical fMRI paradigms for preoperative regional determination of language lateralization in patients with brain tumors. Neuroradiology, 2012, 54, 1015-1025.	1.1	61
18	Bloodâ€“Brain Barrier Breakdown in Relationship to Alzheimer and Vascular Disease. Annals of Neurology, 2021, 90, 227-238.	2.8	57

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19	Nonâ€contrast MR imaging of bloodâ€brain barrier permeability to water. Magnetic Resonance in Medicine, 2018, 80, 1507-1520.	1.9	56
20	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. NeuroImage, 2011, 54, S136-S145.	2.1	53
21	Cerebrovascular reactivity mapping for brain tumor presurgical planning. World Journal of Clinical Oncology, 2011, 2, 289.	0.9	46
22	Presurgical fMRI and DTI for the Prediction of Perioperative Motor and Language Deficits in Primary or Metastatic Brain Lesions. Journal of Neuroimaging, 2015, 25, 776-784.	1.0	39
23	Association of cerebrovascular reactivity and Alzheimer pathologic markers with cognitive performance. Neurology, 2020, 95, e962-e972.	1.5	39
24	Demonstration of Brain Tumor-Induced Neurovascular Uncoupling in Resting-State fMRI at Ultrahigh Field. Brain Connectivity, 2016, 6, 267-272.	0.8	33
25	Brain Oxygen Extraction Is Differentially Altered by Alzheimer's and Vascular Diseases. Journal of Magnetic Resonance Imaging, 2020, 52, 1829-1837.	1.9	33
26	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
27	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
28	Reporting of Resting-State Functional Magnetic Resonance Imaging Preprocessing Methodologies. Brain Connectivity, 2016, 6, 663-668.	0.8	27
29	Language Mapping With fMRI. Topics in Magnetic Resonance Imaging, 2019, 28, 225-233.	0.7	24
30	A longitudinal MRI study in children with Rasmussen syndrome. Pediatric Neurology, 2002, 27, 282-288.	1.0	23
31	Insights into Adult Postlesional Language Cortical Plasticity Provided by Cerebral Blood Oxygen Levelâ€“Dependent Functional MR Imaging. American Journal of Neuroradiology, 2010, 31, 990-996.	1.2	23
32	Clinical Impact of Integrated Physiologic Brain Tumor Imaging. Technology in Cancer Research and Treatment, 2010, 9, 359-380.	0.8	21
33	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
34	A novel radiographic marker of sarcopenia with prognostic value in glioblastoma. Clinical Neurology and Neurosurgery, 2021, 207, 106782.	0.6	21
35	Brain Oxygen Extraction by Using MRI in Older Individuals: Relationship to Apolipoprotein E Genotype and Amyloid Burden. Radiology, 2019, 292, 140-148.	3.6	20
36	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

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37	Application of Resting State Functional MR Imaging to Presurgical Mapping. Neuroimaging Clinics of North America, 2017, 27, 635-644.	0.5	19
38	Cranial intraosseous meningioma: spectrum of neuroimaging findings with respect to histopathological grades in 65 patients. Clinical Imaging, 2014, 38, 599-604.	0.8	18
39	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
40	Functional MR imaging study of language-related differences in bilingual cerebellar activation. American Journal of Neuroradiology, 2004, 25, 523-32.	1.2	18
41	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
42	Noncontrast assessment of bloodâ€“brain barrier permeability to water: Shorter acquisition, testâ€“retest reproducibility, and comparison with contrastâ€based method. Magnetic Resonance in Medicine, 2021, 86, 143-156.	1.9	16
43	Repeatability of language fMRI lateralization and localization metrics in brain tumor patients. Human Brain Mapping, 2018, 39, 4733-4742.	1.9	14
44	Measurement of arteriolar blood volume in brain tumors using MRI without exogenous contrast agent administration at 7T. Journal of Magnetic Resonance Imaging, 2016, 44, 1244-1255.	1.9	13
45	Discrimination between Glioblastoma and Solitary Brain Metastasis: Comparison of Inflow-Based Vascular-Space-Occupancy and Dynamic Susceptibility Contrast MR Imaging. American Journal of Neuroradiology, 2020, 41, 583-590.	1.2	13
46	Dynamic Brain Connectivity in Resting State Functional MR Imaging. Neuroimaging Clinics of North America, 2021, 31, 81-92.	0.5	13
47	The Problem of Neurovascular Uncoupling. Neuroimaging Clinics of North America, 2021, 31, 53-67.	0.5	13
48	Renal Involvement in Association with Postvaccination Varicella. Clinical Infectious Diseases, 1993, 17, 1079-1080.	2.9	12
49	Functional Imaging in Temporal Lobe Epilepsy. Seminars in Ultrasound, CT and MRI, 2007, 28, 437-450.	0.7	12
50	Special Considerations/Technical Limitations of Blood-Oxygen-Level-Dependent Functional Magnetic Resonance Imaging. Neuroimaging Clinics of North America, 2014, 24, 705-715.	0.5	12
51	Imaging of the Functional and Dysfunctional Visual System. Seminars in Ultrasound, CT and MRI, 2015, 36, 234-248.	0.7	12
52	Restingâ€state functional connectivity and cognitive dysfunction correlations in spinocerebelellar ataxia type 6 (SCA6). Human Brain Mapping, 2017, 38, 3001-3010.	1.9	12
53	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
54	CT in the Evaluation of Acute Injuries of the Anterior Eye Segment. American Journal of Roentgenology, 2017, 209, 1353-1359.	1.0	12

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55	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. Brain Connectivity, 2019, 9, 241-250.	0.8	12
56	Whole-Brain Functional and Diffusion Tensor MRI in Human Participants with Metallic Orthodontic Braces. Radiology, 2020, 294, 149-157.	3.6	12
57	Fast whole brain MR imaging of dynamic susceptibility contrast changes in the cerebrospinal fluid (cDSC MRI). Magnetic Resonance in Medicine, 2020, 84, 3256-3270.	1.9	12
58	Automated eloquent cortex localization in brain tumor patients using multi-task graph neural networks. Medical Image Analysis, 2021, 74, 102203.	7.0	12
59	Threeâ€dimensional mapping of brain venous oxygenation using oximetry. Magnetic Resonance in Medicine, 2018, 79, 1304-1313.	1.9	11
60	MR fingerprinting ASL: Sequence characterization and comparison with dynamic susceptibility contrast (DSC) MRI. NMR in Biomedicine, 2020, 33, e4202.	1.6	11
61	Nimodipine improves cortical efficiency during working memory in healthy subjects. Translational Psychiatry, 2020, 10, 372.	2.4	11
62	Cardiacâ€triggered pseudoâ€continuous arterialâ€spinâ€labeling: A costâ€effective scheme to further enhance the reliability of arterialâ€spinâ€labeling MRI. Magnetic Resonance in Medicine, 2018, 80, 969-975.	1.9	10
63	Mapping the trajectory of the amygdalothalamic tract in the human brain. Journal of Neuroscience Research, 2018, 96, 1176-1185.	1.3	9
64	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
65	Long-term neuropsychological follow-up of a child with KlÃ¼verâ€“Bucy syndrome. Epilepsy and Behavior, 2010, 19, 643-646.	0.9	8
66	Supratentorial White Matter Tracts. , 2019, , 23-35.		8
67	Role of Functional Magnetic Resonance Imaging in the Presurgical Mapping of Brain Tumors. Radiologic Clinics of North America, 2021, 59, 377-393.	0.9	8
68	Identification of the Somatomotor Network from Language Taskâ€"based fMRI Compared with Resting-State fMRI in Patients with Brain Lesions. Radiology, 2021, 301, 178-184.	3.6	7
69	A Novel Graph Neural Network to Localize Eloquent Cortex in Brain Tumor Patients from Resting-State fMRI Connectivity. Lecture Notes in Computer Science, 2019, , 10-20.	1.0	7
70	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
71	Cognitive effort decreases beta, alpha, and theta coherence and ends afterdischarges in human brain. Clinical Neurophysiology, 2019, 130, 2169-2181.	0.7	5
72	BOLD fMRI for Presurgical Planning: Part I. , 2014, , 59-78.		4

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73	Threeâ€dimensional assessment of brain arterial compliance: Technical development, comparison with aortic pulse wave velocity, and age effect. Magnetic Resonance in Medicine, 2021, 86, 1917-1928.	1.9	3
74	Effects of Thresholding on Voxel-Wise Correspondence of Breath-Hold and Resting-State Maps of Cerebrovascular Reactivity. Frontiers in Neuroscience, 2021, 15, 654957.	1.4	3
75	Inflow-based vascular-space-occupancy (iVASO) might potentially predict IDH mutation status and tumor grade in diffuse cerebral gliomas. Journal of Neuroradiology, 2022, 49, 267-274.	0.6	3
76	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
77	Clinical Applications of Functional MRI. Neuroimaging Clinics of North America, 2014, 24, xvii.	0.5	2
78	Histogram-based analysis of cerebral blood flow using arterial spin labeling MRI in de novo brain gliomas: relationship to histopathologic grade and molecular markers. Neuroradiology, 2021, 63, 751-760.	1.1	2
79	A Multi-scale Spatial and Temporal Attention Network on Dynamic Connectivity to Localize the Eloquent Cortex in Brain Tumor Patients. Lecture Notes in Computer Science, 2021, , 241-252.	1.0	2
80	A Multi-task Deep Learning Framework to Localize the Eloquent Cortex in Brain Tumor Patients Using Dynamic Functional Connectivity. Lecture Notes in Computer Science, 2020, , 34-44.	1.0	2
81	Defining Patient Specific Functional Parcellations in Lesional Cohorts via Markov Random Fields. Lecture Notes in Computer Science, 2018, , 88-98.	1.0	2
82	Presurgical Lateralization of Seizure Focus in Temporal Lobe Epilepsy With Noninvasive Imaging. Clinical Nuclear Medicine, 2012, 37, 1179-1181.	0.7	1
83	Tumor Connectomics: Mapping the Intra-Tumoral Complex Interaction Network Using Machine Learning. Cancers, 2022, 14, 1481.	1.7	1
84	Brain Atlas for Functional Imaging: Clinical and Research Applications. Journal of Magnetic Resonance Imaging, 2002, 16, 328-329.	1.9	0
85	Functional Connectivity. Neuroimaging Clinics of North America, 2017, 27, xvii.	0.5	0
86	Preoperative Imaging (MRI, Functional MRI, CT). , 2019, , 207-222.		0
87	DTI and fMRI: Review of Complementary Techniques. , 2011, , 803-830.		0
88	Breath-Hold Cerebrovascular Mapping for Neurovascular Assessment in Primary. Neuromethods, 2022, , 167-183.	0.2	0
89	Utility of diffusion-weighted imaging by oculoplastic surgeons to differentiate benign and malignant solid orbital tumours. Canadian Journal of Ophthalmology, 2022, , .	0.4	0