Shruti Agarwal

List of Publications by Year
in descending order

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35 papers	918 citations	471371 17 h-index	477173 29 g-index
36 all docs	36 docs citations	36 times ranked	1419 citing authors

#	Article	IF	Citations
1	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
2	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
3	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
4	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
5	Correlation of quantitative sensorimotor tractography with clinical grade of cerebral palsy. Neuroradiology, 2010, 52, 759-765.	1.1	62
6	Serial Changes in Diffusion Tensor Imaging Metrics of Corpus Callosum in Moderate Traumatic Brain Injury Patients and Their Correlation With Neuropsychometric Tests. Journal of Head Trauma Rehabilitation, 2010, 25, 31-42.	1.0	48
7	Understanding Development and Lateralization of Major Cerebral Fiber Bundles in Pediatric Population Through Quantitative Diffusion Tensor Tractography. Pediatric Research, 2009, 66, 636-641.	1.1	39
8	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
9	Demonstration of Brain Tumor-Induced Neurovascular Uncoupling in Resting-State fMRI at Ultrahigh Field. Brain Connectivity, 2016, 6, 267-272.	0.8	33
10	Diffusion tensor tractography indices in patients with frontal lobe injury and its correlation with neuropsychological tests. Clinical Neurology and Neurosurgery, 2012, 114, 564-571.	0.6	28
11	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
12	Reporting of Resting-State Functional Magnetic Resonance Imaging Preprocessing Methodologies. Brain Connectivity, 2016, 6, 663-668.	0.8	27
13	Language Mapping With fMRI. Topics in Magnetic Resonance Imaging, 2019, 28, 225-233.	0.7	24
14	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
15	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
16	Application of Resting State Functional MR Imaging to Presurgical Mapping. Neuroimaging Clinics of North America, 2017, 27, 635-644.	0.5	19
17	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
18	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

#	Article	IF	Citations
19	Principal eigenvector field segmentation for reproducible diffusion tensor tractography of white matter structures. Magnetic Resonance Imaging, 2011, 29, 1088-1100.	1.0	15
20	Longitudinal strain from velocity encoded cardiovascular magnetic resonance: a validation study. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 15.	1.6	14
21	Repeatability of language fMRI lateralization and localization metrics in brain tumor patients. Human Brain Mapping, 2018, 39, 4733-4742.	1.9	14
22	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
23	Dynamic Brain Connectivity in Resting State Functional MR Imaging. Neuroimaging Clinics of North America, 2021, 31, 81-92.	0.5	13
24	The Problem of Neurovascular Uncoupling. Neuroimaging Clinics of North America, 2021, 31, 53-67.	0.5	13
25	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
26	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
27	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
28	Automated eloquent cortex localization in brain tumor patients using multi-task graph neural networks. Medical Image Analysis, 2021, 74, 102203.	7.0	12
29	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
30	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
31	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
32	Cognitive functions correlate with diffusion tensor imaging metrics in patients with spina bifida cystica. Child's Nervous System, 2011, 27, 723-728.	0.6	5
33	Cognitive effort decreases beta, alpha, and theta coherence and ends afterdischarges in human brain. Clinical Neurophysiology, 2019, 130, 2169-2181.	0.7	5
34	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
35	Preoperative Imaging (MRI, Functional MRI, CT). , 2019, , 207-222.		0