

Sagar Buch

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,166
citations

687363

13
h-index

580821

25
g-index

28
all docs

28
docs citations

28
times ranked

1570
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative susceptibility mapping: current status and future directions. <i>Magnetic Resonance Imaging</i> , 2015, 33, 1-25.	1.8	426
2	Quantitative susceptibility mapping: Report from the 2016 reconstruction challenge. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1661-1673.	3.0	151
3	Susceptibility-weighted imaging: current status and future directions. <i>NMR in Biomedicine</i> , 2017, 30, e3552.	2.8	121
4	Improving susceptibility mapping using a threshold-based k-space/image domain iterative reconstruction approach. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1396-1407.	3.0	118
5	Susceptibility mapping of air, bone, and calcium in the head. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 2185-2194.	3.0	48
6	Quantifying the changes in oxygen extraction fraction and cerebral activity caused by caffeine and acetazolamide. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 825-836.	4.3	33
7	Measuring venous blood oxygenation in fetal brain using susceptibility-weighted imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, 998-1006.	3.4	31
8	A fully flow-compensated multiecho susceptibility-weighted imaging sequence: The effects of acceleration and background field on flow compensation. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 478-489.	3.0	26
9	Determination of detection sensitivity for cerebral microbleeds using susceptibility-weighted imaging. <i>NMR in Biomedicine</i> , 2017, 30, e3551.	2.8	25
10	An interleaved sequence for simultaneous magnetic resonance angiography (MRA), susceptibility weighted imaging (SWI) and quantitative susceptibility mapping (QSM). <i>Magnetic Resonance Imaging</i> , 2018, 47, 1-6.	1.8	23
11	VC-Net: Deep Volume-Composition Networks for Segmentation and Visualization of Highly Sparse and Noisy Image Data. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2021, 27, 1301-1311.	4.4	21
12	Subvoxel vascular imaging of the midbrain using USPIO-Enhanced MRI. <i>NeuroImage</i> , 2020, 220, 117106.	4.2	17
13	Quantitative Susceptibility Mapping for Characterization of Intraplaque Hemorrhage and Calcification in Carotid Atherosclerotic Disease. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 52, 534-541.	3.4	15
14	Quantitative susceptibility mapping in the human fetus to measure blood oxygenation in the superior sagittal sinus. <i>European Radiology</i> , 2019, 29, 2017-2026.	4.5	13
15	Detecting sub-voxel microvasculature with USPIO-enhanced susceptibility-weighted MRI at 7T. <i>Magnetic Resonance Imaging</i> , 2020, 67, 90-100.	1.8	13
16	Multi-Echo Quantitative Susceptibility Mapping for Strategically Acquired Gradient Echo (STAGE) Imaging. <i>Frontiers in Neuroscience</i> , 2020, 14, 581474.	2.8	13
17	An Overview of Venous Abnormalities Related to the Development of Lesions in Multiple Sclerosis. <i>Frontiers in Neurology</i> , 2021, 12, 561458.	2.4	13
18	Revealing vascular abnormalities and measuring small vessel density in multiple sclerosis lesions using USPIO. <i>NeuroImage: Clinical</i> , 2021, 29, 102525.	2.7	13

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19	Imaging putative foetal cerebral blood oxygenation using susceptibility weighted imaging (SWI). <i>European Radiology</i> , 2018, 28, 1884-1890.	4.5	12
20	JointVesselNet: Joint Volume-Projection Convolutional Embedding Networks for 3D Cerebrovascular Segmentation. <i>Lecture Notes in Computer Science</i> , 2020, , 106-116.	1.3	8
21	Imaging patients pre and post deep brain stimulation: Localization of the electrodes and their targets. <i>Magnetic Resonance Imaging</i> , 2021, 75, 34-44.	1.8	7
22	Vascular mapping of the human hippocampus using Ferumoxytol-enhanced MRI. <i>NeuroImage</i> , 2022, 250, 118957.	4.2	6
23	Susceptibility mapping of the dural sinuses and other superficial veins in the brain. <i>Magnetic Resonance Imaging</i> , 2019, 57, 19-27.	1.8	5
24	Using variable-rate selective excitation (VERSE) radiofrequency pulses to reduce power deposition in pulsed arterial spin labeling sequence at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 645-652.	3.0	5
25	Dual-Imaging Modality Approach to Evaluate Cerebral Hemodynamics in Growth-Restricted Fetuses: Oxygenation and Perfusion. <i>Fetal Diagnosis and Therapy</i> , 2020, 47, 145-155.	1.4	3
26	Perfusion and Susceptibility Weighted Imaging in Traumatic Brain Injury. , 2019, , 303-319.		0
27	MR imaging of intracranial and extracranial veins. <i>Italian Journal of Vascular and Endovascular Surgery</i> , 2018, 25, .	1.0	0
28	Principles of susceptibility-weighted MRI. <i>Advances in Magnetic Resonance Technology and Applications</i> , 2021, 4, 341-357.	0.1	0