Karin Shmueli

List of Publications by Year
in descending order

38 papers	3,088 citations	430874 18 h-index	361022 35 g-index
46 all docs	46 docs citations	46 times ranked	3552 citing authors

#	Article	IF	Citations
1	Low-frequency fluctuations in the cardiac rate as a source of variance in the resting-state fMRI BOLD signal. NeuroImage, 2007, 38, 306-320.	4.2	508
2	Magnetic susceptibility mapping of brain tissue in vivo using MRI phase data. Magnetic Resonance in Medicine, 2009, 62, 1510-1522.	3.0	460
3	Layer-specific variation of iron content in cerebral cortex as a source of MRI contrast. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3834-3839.	7.1	377
4	Susceptibility contrast in high field MRI of human brain as a function of tissue iron content. NeuroImage, 2009, 44, 1259-1266.	4.2	266
5	Sensitivity of MRI resonance frequency to the orientation of brain tissue microstructure. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5130-5135.	7.1	238
6	Sources of functional magnetic resonance imaging signal fluctuations in the human brain at rest: a 7 T study. Magnetic Resonance Imaging, 2009, 27, 1019-1029.	1.8	213
7	The contribution of myelin to magnetic susceptibility-weighted contrasts in high-field MRI of the brain. NeuroImage, 2012, 59, 3967-3975.	4.2	186
8	Quantitative susceptibility mapping: Report from the 2016 reconstruction challenge. Magnetic Resonance in Medicine, 2018, 79, 1661-1673.	3.0	151
9	Optimal MRI methods for direct stereotactic targeting of the subthalamic nucleus and globus pallidus. European Radiology, 2011, 21, 130-136.	4.5	80
10	The contribution of chemical exchange to MRI frequency shifts in brain tissue. Magnetic Resonance in Medicine, 2011, 65, 35-43.	3.0	71
11	High resolution MRI of the brain at 4.7â€…Tesla using fast spin echo imaging. British Journal of Radiology, 2003, 76, 631-637.	2.2	53
12	The effect of low resolution and coverage on the accuracy of susceptibility mapping. Magnetic Resonance in Medicine, 2019, 81, 1833-1848.	3.0	53
13	SEGUE: A Speedy rEgion-Growing Algorithm for Unwrapping Estimated Phase. IEEE Transactions on Medical Imaging, 2019, 38, 1347-1357.	8.9	49
14	Phase unwrapping with a rapid opensource minimum spanning tree algorithm (ROMEO). Magnetic Resonance in Medicine, 2021, 85, 2294-2308.	3.0	48
15	Tissue magnetic susceptibility mapping as a marker of tau pathology in Alzheimer's disease. NeuroImage, 2017, 159, 334-345.	4.2	45
16	Regional brain iron and gene expression provide insights into neurodegeneration in Parkinsonâ€™s disease. Brain, 2021, 144, 1787-1798.	7.6	44
17	An optimized and highly repeatable MRI acquisition and processing pipeline for quantitative susceptibility mapping in the headâ€andâ€neck region. Magnetic Resonance in Medicine, 2020, 84, 3206-3222.	3.0	33
18	Design, construction and evaluation of an anthropomorphic head phantom with realistic susceptibility artifacts. Journal of Magnetic Resonance Imaging, 2007, 26, 202-207.	3.4	28

#	Article	IF	Citations
19	Investigating the accuracy and precision of TEâ€dependent versus multiâ€echo QSM using Laplacianâ€based methods at 3 T. Magnetic Resonance in Medicine, 2020, 84, 3040-3053.	3.0	22
20	Quantitative susceptibility mapping of articular cartilage: Ex vivo findings at multiple orientations and following different degradation treatments. Magnetic Resonance in Medicine, 2018, 80, 2702-2716.	3.0	20
21	Quantitative susceptibility mapping of the rat brain after traumatic brain injury. NMR in Biomedicine, 2021, 34, e4438.	2.8	20
22	PET/MRI attenuation estimation in the lung: A review of past, present, and potential techniques. Medical Physics, 2020, 47, 790-811.	3.0	19
23	Investigating the oxygenation of brain arteriovenous malformations using quantitative susceptibility mapping. NeuroImage, 2019, 199, 440-453.	4.2	15
24	Investigating the effect of flow compensation and quantitative susceptibility mapping method on the accuracy of venous susceptibility measurement. NeuroImage, 2021, 240, 118399.	4.2	13
25	Quantitative MRI susceptibility mapping reveals cortical signatures of changes in iron, calcium and zinc in malformations of cortical development in children with drug-resistant epilepsy. NeuroImage, 2021, 238, 118102.	4.2	11
26	Investigating lipids as a source of chemical exchangeâ€induced MRI frequency shifts. NMR in Biomedicine, 2017, 30, e3525.	2.8	10
27	Association of bone mineral density and fat fraction with magnetic susceptibility in inflamed trabecular bone. Magnetic Resonance in Medicine, 2019, 81, 3094-3107.	3.0	10
28	PROâ€QUEST: a rapid assessment method based on progressive saturation for quantifying exchange rates using saturation times in CEST. Magnetic Resonance in Medicine, 2018, 80, 1638-1654.	3.0	9
29	Noninvasive quantification of oxygen saturation in the portal and hepatic veins in healthy mice and those with colorectal liver metastases using QSM MRI. Magnetic Resonance in Medicine, 2019, 81, 2666-2675.	3.0	6
30	Quantitative susceptibility mapping of carotid arterial tissue ex vivo: Assessing sensitivity to vessel microstructural composition. Magnetic Resonance in Medicine, 2021, 86, 2512-2527.	3.0	5
31	Quantitative Susceptibility Mapping. Advances in Magnetic Resonance Technology and Applications, 2020, , 819-838.	0.1	4
32	Multiâ€echo quantitative susceptibility mapping: how to combine echoes for accuracy and precision at 3 Tesla. Magnetic Resonance in Medicine, 2022, 88, 2101-2116.	3.0	4
33	Brain iron in sickle cell disease?. Blood, 2018, 132, 1550-1552.	1.4	3
34	Neuroimaging in patients with sickle cell anemia: capacity building in Africa. Blood Advances, 2018, 2, 26-29.	5.2	3
35	Planning of gamma knife radiosurgery (GKR) for brain arteriovenous malformations using triple magnetic resonance angiography (triple-MRA). British Journal of Neurosurgery, 2022, 36, 217-227.	0.8	3
36	BOLD contrast modifications due to fat suppression in long TR functional magnetic resonance imaging. NeuroImage, 2001, 13, 31.	4.2	0

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37	Experimental Models of Brain Disease: MRI Contrast Mechanisms for the Assessment of Pathophysiological Status. , 2017, , 1-30.		0
38	Experimental Models of Brain Disease: MRI Contrast Mechanisms for the Assessment of Pathophysiological Status. , 2018, , 63-92.		0