Zhe Liu

List of Publications by Citations

21 papers	615 citations	12 h-index	21 g-index
21 ext. papers	840 ext. citations	4.4 avg, IF	3.79 L-index

#	Paper	IF	Citations
21	Clinical quantitative susceptibility mapping (QSM): Biometal imaging and its emerging roles in patient care. *Journal of Magnetic Resonance Imaging*, **2017**, 46, 951-971	5.6	128
20	Quantitative susceptibility mapping: Report from the 2016 reconstruction challenge. *Magnetic Resonance in Medicine*, **2018**, 79, 1661-1673	4.4	95
19	Preconditioned total field inversion (TFI) method for quantitative susceptibility mapping. *Magnetic Resonance in Medicine*, **2017**, 78, 303-315	4.4	75
18	MEDI+0: Morphology enabled dipole inversion with automatic uniform cerebrospinal fluid zero reference for quantitative susceptibility mapping. *Magnetic Resonance in Medicine*, **2018**, 79, 2795-2803	4.4	73
17	The clinical utility of QSM: disease diagnosis, medical management, and surgical planning. *NMR in Biomedicine*, **2017**, 30, e3668	4.4	44
16	Bone quantitative susceptibility mapping using a chemical species-specific R2* signal model with ultrashort and conventional echo data. *Magnetic Resonance in Medicine*, **2018**, 79, 121-128	4.4	41
15	Quantitative Susceptibility Mapping (QSM) Algorithms: Mathematical Rationale and Computational Implementations. *IEEE Transactions on Biomedical Engineering*, **2017**, 64, 2531-2545	5	34
14	Combining Quantitative Susceptibility Mapping with Automatic Zero Reference (QSM0) and Myelin Water Fraction Imaging to Quantify Iron-Related Myelin Damage in Chronic Active MS Lesions. *American Journal of Neuroradiology*, **2018**, 39, 303-310	4.4	25
13	Fidelity imposed network edit (FINE) for solving ill-posed image reconstruction. *NeuroImage*, **2020**, 211, 116579	7.9	18
12	Cardiac quantitative susceptibility mapping (QSM) for heart chamber oxygenation. *Magnetic Resonance in Medicine*, **2018**, 79, 1545-1552	4.4	16
11	Rapid automated liver quantitative susceptibility mapping. *Journal of Magnetic Resonance Imaging*, **2019**, 50, 725-732	5.6	14
10	Clinical Integration of Automated Processing for Brain Quantitative Susceptibility Mapping: Multi-Site Reproducibility and Single-Site Robustness. *Journal of Neuroimaging*, **2019**, 29, 689-698	2.8	13
9	Validation of MRI quantitative susceptibility mapping of superparamagnetic iron oxide nanoparticles for hyperthermia applications in live subjects. *Scientific Reports*, **2020**, 10, 1171	4.9	8
8	Clinical feasibility of brain quantitative susceptibility mapping. *Magnetic Resonance Imaging*, **2019**, 60, 44-51	3.3	7
7	Free breathing three-dimensional cardiac quantitative susceptibility mapping for differential cardiac chamber blood oxygenation - initial validation in patients with cardiovascular disease inclusive of direct comparison to invasive catheterization. *Journal of Cardiovascular Magnetic Resonance*, **2019**, 21, 70	6.9	5
6	Automated adaptive preconditioner for quantitative susceptibility mapping. *Magnetic Resonance in Medicine*, **2020**, 83, 271-285	4.4	5
5	Susceptibility-Based Neuroimaging: Standard Methods, Clinical Applications, and Future Directions. *Current Radiology Reports*, **2017**, 5, 1	0.5	4

4	Quantitative susceptibility mapping of carotid plaques using nonlinear total field inversion: Initial experience in patients with significant carotid stenosis. *Magnetic Resonance in Medicine*, **2020**, 84, 1501-1509	4.4	3
3	Quantitative susceptibility mapping of the spine using in-phase echoes to initialize inhomogeneous field and R2* for the nonconvex optimization problem of fat-water separation. *NMR in Biomedicine*, **2019**, 32, e4156	4.4	3
2	Brain Injury Lesion Imaging Using Preconditioned Quantitative Susceptibility Mapping without Skull Stripping. *American Journal of Neuroradiology*, **2018**, 39, 648-653	4.4	2
1	Coherence enhancement in quantitative susceptibility mapping by means of anisotropic weighting in morphology enabled dipole inversion. *Magnetic Resonance in Medicine*, **2018**, 79, 1172-1180	4.4	2