

# Yi Wang

## List of Publications by Year in descending order

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74  
papers

2,482  
citations

279487

23  
h-index

223531

46  
g-index

74  
all docs

74  
docs citations

74  
times ranked

2293  
citing authors

#	ARTICLE	IF	CITATIONS
1	Morphology enabled dipole inversion for quantitative susceptibility mapping using structural consistency between the magnitude image and the susceptibility map. <i>NeuroImage</i> , 2012, 59, 2560-2568.	2.1	397
2	Quantitative Susceptibility Mapping of Multiple Sclerosis Lesions at Various Ages. <i>Radiology</i> , 2014, 271, 183-192.	3.6	201
3	Quantitative susceptibility mapping (QSM) of white matter multiple sclerosis lesions: Interpreting positive susceptibility and the presence of iron. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 564-570.	1.9	199
4	Quantitative susceptibility mapping identifies inflammation in a subset of chronic multiple sclerosis lesions. <i>Brain</i> , 2019, 142, 133-145.	3.7	136
5	MEDI+0: Morphology enabled dipole inversion with automatic uniform cerebrospinal fluid zero reference for quantitative susceptibility mapping. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2795-2803.	1.9	132
6	Flow compensated quantitative susceptibility mapping for venous oxygenation imaging. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 438-445.	1.9	104
7	Accuracy of the Morphology Enabled Dipole Inversion (MEDI) Algorithm for Quantitative Susceptibility Mapping in MRI. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 816-824.	5.4	101
8	Reproducibility of quantitative susceptibility mapping in the brain at two field strengths from two vendors. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 1592-1600.	1.9	99
9	Iron in Multiple Sclerosis and Its Noninvasive Imaging with Quantitative Susceptibility Mapping. <i>International Journal of Molecular Sciences</i> , 2016, 17, 100.	1.8	83
10	Quantitative Susceptibility Mapping and R2* Measured Changes during White Matter Lesion Development in Multiple Sclerosis: Myelin Breakdown, Myelin Debris Degradation and Removal, and Iron Accumulation. <i>American Journal of Neuroradiology</i> , 2016, 37, 1629-1635.	1.2	57
11	Cerebral metabolic rate of oxygen (CMRO <sub>2</sub> ) mapping by combining quantitative susceptibility mapping (QSM) and quantitative blood oxygenation level-dependent imaging (qBOLD). <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1595-1604.	1.9	57
12	Multiple sclerosis lesion geometry in quantitative susceptibility mapping (QSM) and phase imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 224-229.	1.9	52
13	Quantitative susceptibility mapping (QSM) minimizes interference from cellular pathology in R2* estimation of liver iron concentration. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 1069-1079.	1.9	50
14	Quantitative Susceptibility Mapping (QSM) Algorithms: Mathematical Rationale and Computational Implementations. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 2531-2545.	2.5	49
15	Quantifying changes in nigrosomes using quantitative susceptibility mapping and neuromelanin imaging for the diagnosis of early-stage Parkinson's disease. <i>British Journal of Radiology</i> , 2018, 91, 20180037.	1.0	41
16	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. <i>American Journal of Neuroradiology</i> , 2018, 39, 303-310.	1.2	39
17	Magnetic Susceptibility from Quantitative Susceptibility Mapping Can Differentiate New Enhancing from Nonenhancing Multiple Sclerosis Lesions without Gadolinium Injection. <i>American Journal of Neuroradiology</i> , 2016, 37, 1794-1799.	1.2	35
18	Magnetic susceptibility increases as diamagnetic molecules breakdown: Myelin digestion during multiple sclerosis lesion formation contributes to increase on QSM. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 1281-1287.	1.9	34

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19	Cluster analysis of time evolution (CAT) for quantitative susceptibility mapping (QSM) and quantitative blood oxygen level-dependent magnitude (qBOLD)-based oxygen extraction fraction (OEF) and cerebral metabolic rate of oxygen (CMRO <sub>2</sub> ) mapping. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 844-857.	1.9	32
20	In Vivo 7T MR Quantitative Susceptibility Mapping Reveals Opposite Susceptibility Contrast between Cortical and White Matter Lesions in Multiple Sclerosis. <i>American Journal of Neuroradiology</i> , 2016, 37, 1808-1815.	1.2	31
21	Multicenter reproducibility of quantitative susceptibility mapping in a gadolinium phantom using MEDI+0 automatic zero referencing. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1229-1236.	1.9	31
22	Rapid automated liver quantitative susceptibility mapping. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 725-732.	1.9	27
23	The Use of Noncontrast Quantitative MRI to Detect Gadolinium-Enhancing Multiple Sclerosis Brain Lesions: A Systematic Review and Meta-Analysis. <i>American Journal of Neuroradiology</i> , 2017, 38, 1317-1322.	1.2	26
24	Deep neural network for water/fat separation: Supervised training, unsupervised training, and no training. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2263-2277.	1.9	24
25	Left Ventricle: Fully Automated Segmentation Based on Spatiotemporal Continuity and Myocardium Information in Cine Cardiac Magnetic Resonance Imaging (LV-FAST). <i>BioMed Research International</i> , 2015, 2015, 1-9.	0.9	23
26	Cardiac quantitative susceptibility mapping (QSM) for heart chamber oxygenation. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1545-1552.	1.9	23
27	High-resolution QSM for functional and structural depiction of subthalamic nuclei in DBS presurgical mapping. <i>Journal of Neurosurgery</i> , 2019, 131, 360-367.	0.9	22
28	Cerebral OEF quantification: A comparison study between quantitative susceptibility mapping and dual-gas calibrated BOLD imaging. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 68-82.	1.9	18
29	The Role of Systematic and Targeted Biopsies in Light of Overlap on Magnetic Resonance Imaging Ultrasound Fusion Biopsy. <i>European Urology Oncology</i> , 2018, 1, 263-267.	2.6	17
30	Using an artificial neural network for fast mapping of the oxygen extraction fraction with combined QSM and quantitative BOLD. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 2199-2211.	1.9	17
31	Magnetic Susceptibility and Fat Content in the Lumbar Spine of Postmenopausal Women With Varying Bone Mineral Density. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 1020-1028.	1.9	17
32	Quantitative evaluation of brain iron accumulation in different stages of Parkinson's disease. <i>Journal of Neuroimaging</i> , 2022, 32, 363-371.	1.0	16
33	Diagnostic accuracy of semiautomatic lesion detection plus quantitative susceptibility mapping in the identification of new and enhancing multiple sclerosis lesions. <i>NeuroImage: Clinical</i> , 2018, 18, 143-148.	1.4	15
34	Multiecho complex total field inversion method (mcTFI) for improved signal modeling in quantitative susceptibility mapping. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 2165-2178.	1.9	15
35	Temporal clustering, tissue composition, and total variation for mapping oxygen extraction fraction using QSM and quantitative BOLD. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 2635-2646.	1.9	14
36	Discontinuity Preserving Liver MR Registration With Three-Dimensional Active Contour Motion Segmentation. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1884-1897.	2.5	13

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37	Quantitative susceptibility mapping of carotid plaques using nonlinear total field inversion: Initial experience in patients with significant carotid stenosis. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 1501-1509.	1.9	12
38	Quantitative susceptibility mapping across two clinical field strengths: Contrast-to-noise ratio enhancement at 1.5T. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 1410-1420.	1.9	11
39	Characterization of Carotid Plaque Components by Quantitative Susceptibility Mapping. <i>American Journal of Neuroradiology</i> , 2020, 41, 310-317.	1.2	11
40	Quantitative transport mapping (QTM) of the kidney with an approximate microvascular network. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2247-2262.	1.9	11
41	Cerebral oxygen extraction fraction: Comparison of dual-gas challenge calibrated BOLD with CBF and challenge-free gradient echo QSM+qBOLD. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 953-961.	1.9	11
42	QNET using deep learning to solve quantitative susceptibility mapping and quantitative blood oxygen level dependent magnitude (QSM+qBOLD or QQ) based oxygen extraction fraction (OEF) mapping. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 1583-1594.	1.9	11
43	Quantitative susceptibility mapping versus phase imaging to identify multiple sclerosis iron rim lesions with demyelination. <i>Journal of Neuroimaging</i> , 2022, 32, 667-675.	1.0	11
44	Region-specific susceptibility change in cognitively impaired patients with diabetes mellitus. <i>PLoS ONE</i> , 2018, 13, e0205797.	1.1	10
45	Clinical Integration of Quantitative Susceptibility Mapping Magnetic Resonance Imaging into Neurosurgical Practice. <i>World Neurosurgery</i> , 2019, 122, e10-e19.	0.7	10
46	Deep Learning Automation of Kidney, Liver, and Spleen Segmentation for Organ Volume Measurements in Autosomal Dominant Polycystic Kidney Disease. <i>Tomography</i> , 2022, 8, 1804-1819.	0.8	10
47	A radial self-calibrated (RASCAL) generalized autocalibrating partially parallel acquisition (GRAPPA) method using weight interpolation. <i>NMR in Biomedicine</i> , 2011, 24, 844-854.	1.6	9
48	Cerebral Microbleeds Are Associated With Increased Brain Iron and Cognitive Impairment in Patients With Cerebral Small Vessel Disease: A Quantitative Susceptibility Mapping Study. <i>Journal of Magnetic Resonance Imaging</i> , 2022, , .	1.9	9
49	Susceptibility source separation from gradient echo data using magnitude decay modeling. <i>Journal of Neuroimaging</i> , 2022, 32, 852-859.	1.0	9
50	MRI based texture analysis to classify low grade gliomas into astrocytoma and 1p/19q codeleted oligodendroglioma. <i>Magnetic Resonance Imaging</i> , 2019, 57, 254-258.	1.0	8
51	Evaluation of oxygen extraction fraction in systemic lupus erythematosus patients using quantitative susceptibility mapping. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 1648-1658.	2.4	8
52	Automated adaptive preconditioner for quantitative susceptibility mapping. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 271-285.	1.9	7
53	Global cerebrospinal fluid as a zero-reference regularization for brain quantitative susceptibility mapping. <i>Journal of Neuroimaging</i> , 2022, 32, 141-147.	1.0	7
54	Magnetic Susceptibility Source Separation Solely from Gradient Echo Data: Histological Validation. <i>Tomography</i> , 2022, 8, 1544-1551.	0.8	7

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55	Vastly accelerated linear least-squares fitting with numerical optimization for dual-input delay-compensated quantitative liver perfusion mapping. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2415-2421.	1.9	6
56	The influence of molecular order and microstructure on the R2* and the magnetic susceptibility tensor. <i>Magnetic Resonance Imaging</i> , 2016, 34, 682-689.	1.0	5
57	Primal-dual and forward gradient implementation for quantitative susceptibility mapping. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 2416-2427.	1.9	5
58	Quantitative Susceptibility Mapping of the Thalamus: Relationships with Thalamic Volume, Total Gray Matter Volume, and T2 Lesion Burden. <i>American Journal of Neuroradiology</i> , 2018, 39, 467-472.	1.2	5
59	Fast and Robust Unsupervised Identification of MS Lesion Change Using the Statistical Detection of Changes Algorithm. <i>American Journal of Neuroradiology</i> , 2018, 39, 830-833.	1.2	5
60	Brain oxygen extraction and neural tissue susceptibility are associated with cognitive impairment in older individuals. <i>Journal of Neuroimaging</i> , 2022, 32, 697-709.	1.0	5
61	Motion Artifact Suppression in Breath Hold 3D Contrast Enhanced Magnetic Resonance Angiography using ECG Ordering. , 2006, 2006, 739-42.		4
62	Multiple Regions of Interest on Multiparametric Magnetic Resonance Imaging are Not Associated with Increased Detection of Clinically Significant Prostate Cancer on Fusion Biopsy. <i>Journal of Urology</i> , 2018, 200, 559-563.	0.2	4
63	Patents on Quantitative Susceptibility Mapping (QSM) of Tissue Magnetism. <i>Recent Patents on Biotechnology</i> , 2019, 13, 90-113.	0.4	4
64	Oxygen extraction fraction (OEF) assesses cerebral oxygen metabolism of deep gray matter in patients with pre-eclampsia. <i>European Radiology</i> , 2022, 32, 6058-6069.	2.3	4
65	Brain Injury Lesion Imaging Using Preconditioned Quantitative Susceptibility Mapping without Skull Stripping. <i>American Journal of Neuroradiology</i> , 2018, 39, 648-653.	1.2	3
66	Subsecond accurate myelin water fraction reconstruction from FAST <sup>2</sup> data with 3D UNET. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 2979-2988.	1.9	3
67	Reconstruction of highly under-sampled dynamic MRI using sparse representation of 1D temporal snippets. , 2015, , .		2
68	Coherence enhancement in quantitative susceptibility mapping by means of anisotropic weighting in morphology enabled dipole inversion. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1172-1180.	1.9	2
69	Dipole modeling of multispectral signal for detecting metallic biopsy markers during MRI-guided breast biopsy: a pilot study. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 1380-1389.	1.9	2
70	Spatially Adaptive Regularization in Total Field Inversion for Quantitative Susceptibility Mapping. <i>IScience</i> , 2020, 23, 101553.	1.9	2
71	Quantitative Susceptibility Mapping Is Superior to T1-weighted Imaging for Detecting and Measuring Gadolinium. <i>Radiology</i> , 2020, 297, 151-153.	3.6	1
72	The central vein sign in multiple sclerosis lesions: Susceptibility relaxation optimization from a routine MRI multiecho gradient echo sequence. <i>Journal of Neuroimaging</i> , 2022, 32, 48-56.	1.0	1

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73	Quantitative Susceptibility Mapping of Magnetic Quadrupole Moments. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2019, 2019, 1-14.	0.2	0
74	IRIS—Intelligent Rapid Interactive Segmentation for Measuring Liver Cyst Volumes in Autosomal Dominant Polycystic Kidney Disease. Tomography, 2022, 8, 447-456.	0.8	0