

Thanh D Nguyen

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82

papers

1,302

citations

22

h-index

32

g-index

103

ext. papers

1,791

ext. citations

5

avg, IF

4.48

L-index

#	Paper	IF	Citations
82	Quantitative mapping of cerebral metabolic rate of oxygen (CMRO ₂) using quantitative susceptibility mapping (QSM). <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 945-52	4.4	92
81	Reproducibility of quantitative susceptibility mapping in the brain at two field strengths from two vendors. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 42, 1592-600	5.6	69
80	Quantitative susceptibility mapping identifies inflammation in a subset of chronic multiple sclerosis lesions. <i>Brain</i> , 2019 , 142, 133-145	11.2	69
79	Mitral apparatus assessment by delayed enhancement CMR: relative impact of infarct distribution on mitral regurgitation. <i>JACC: Cardiovascular Imaging</i> , 2013 , 6, 220-34	8.4	50
78	T2 prep three-dimensional spiral imaging with efficient whole brain coverage for myelin water quantification at 1.5 tesla. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 614-21	4.4	48
77	Bayesian algorithm using spatial priors for multiexponential T ₂ relaxometry from multiecho spin echo MRI. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 1536-43	4.4	45
76	A fast navigator-gated 3D sequence for delayed enhancement MRI of the myocardium: comparison with breathhold 2D imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 27, 802-8	5.6	43
75	Measuring longitudinal myelin water fraction in new multiple sclerosis lesions. <i>NeuroImage: Clinical</i> , 2015 , 9, 369-75	5.3	42
74	Effective motion-sensitizing magnetization preparation for black blood magnetic resonance imaging of the heart. <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 28, 1092-100	5.6	41
73	Multi-compartment T ₂ relaxometry using a spatially constrained multi-Gaussian model. <i>PLoS ONE</i> , 2014 , 9, e98391	3.7	38
72	Direct monitoring of coronary artery motion with cardiac fat navigator echoes. <i>Magnetic Resonance in Medicine</i> , 2003 , 50, 235-41	4.4	36
71	Feasibility and reproducibility of whole brain myelin water mapping in 4 minutes using fast acquisition with spiral trajectory and adiabatic T ₂ prep (FAST-T ₂) at 3T. <i>Magnetic Resonance in Medicine</i> , 2016 , 76, 456-65	4.4	35
70	Enhanced astrocyte responses are driven by a genetic risk allele associated with multiple sclerosis. <i>Nature Communications</i> , 2018 , 9, 5337	17.4	34
69	Cerebral metabolic rate of oxygen (CMRO ₂) mapping with hyperventilation challenge using quantitative susceptibility mapping (QSM). <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 1762-1773	4.4	33
68	Significance and Detection of Iron-Laden Microglia in White Matter Multiple Sclerosis Lesions. <i>Frontiers in Immunology</i> , 2018 , 9, 255	8.4	33
67	Algorithm for fast monoexponential fitting based on Auto-Regression on Linear Operations (ARLO) of data. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 843-50	4.4	33
66	Cerebral metabolic rate of oxygen (CMRO ₂) 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	4.4	31

65	Quantitative Susceptibility Mapping of Intracerebral Hemorrhages at Various Stages. <i>Journal of Magnetic Resonance Imaging</i> , 2016 , 44, 420-5	5.6	30
64	Cardiac fat navigator-gated steady-state free precession 3D magnetic resonance angiography of coronary arteries. <i>Magnetic Resonance in Medicine</i> , 2006 , 56, 210-5	4.4	26
63	Direct coronary motion extraction from a 2D fat image navigator for prospectively gated coronary MR angiography. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 599-607	4.4	25
62	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	4.4	25
61	Profilometry: A new statistical framework for the characterization of white matter pathways, with application to multiple sclerosis. <i>Human Brain Mapping</i> , 2016 , 37, 989-1004	5.9	24
60	Quantitative susceptibility mapping-based cerebral metabolic rate of oxygen mapping with minimum local variance. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 172-179	4.4	22
59	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	4.4	22
58	Fidelity imposed network edit (FINE) for solving ill-posed image reconstruction. <i>NeuroImage</i> , 2020 , 211, 116579	7.9	18
57	Quantitative Susceptibility Mapping of Time-Dependent Susceptibility Changes in Multiple Sclerosis Lesions. <i>American Journal of Neuroradiology</i> , 2019 , 40, 987-993	4.4	18
56	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	5.6	17
55	Cardiac quantitative susceptibility mapping (QSM) for heart chamber oxygenation. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 1545-1552	4.4	16
54	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) mapping. <i>Magnetic Resonance in Medicine</i> , 2020 , 82, 811-827	4.4	16
53	Free-breathing 3-dimensional steady-state free precession coronary magnetic resonance angiography: comparison of four navigator gating techniques. <i>Magnetic Resonance Imaging</i> , 2009 , 27, 807-14	3.3	15
52	Myelin and axon pathology in multiple sclerosis assessed by myelin water and multi-shell diffusion imaging. <i>Brain</i> , 2021 , 144, 1684-1696	11.2	15
51	Rapid automated liver quantitative susceptibility mapping. <i>Journal of Magnetic Resonance Imaging</i> , 2019 , 50, 725-732	5.6	14
50	Free-breathing 3D steady-state free precession coronary magnetic resonance angiography: comparison of diaphragm and cardiac fat navigators. <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 28, 509-14	5.6	12
49	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	5.3	11
48	MRI Analysis of White Matter Myelin Water Content in Multiple Sclerosis: A Novel Approach Applied to Finding Correlates of Cortical Thinning. <i>Frontiers in Neuroscience</i> , 2017 , 11, 284	5.1	11

47	Self-gated free-breathing 3D coronary CINE imaging with simultaneous water and fat visualization. <i>PLoS ONE</i> , 2014 , 9, e89315	3.7	11
46	Effect of blood flow on double inversion recovery vessel wall MRI of the peripheral arteries: quantitation with T2 mapping and comparison with flow-insensitive T2-prepared inversion recovery imaging. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 736-44	4.4	10
45	QSM is an imaging biomarker for chronic glial activation in multiple sclerosis lesions. <i>Annals of Clinical and Translational Neurology</i> , 2021 , 8, 877-886	5.3	10
44	k-Space weighted least-squares algorithm for accurate and fast motion extraction from magnetic resonance navigator echoes. <i>Magnetic Resonance in Medicine</i> , 2001 , 46, 1037-40	4.4	9
43	Validation of MRI quantitative susceptibility mapping of superparamagnetic iron oxide nanoparticles for hyperthermia applications in live subjects. <i>Scientific Reports</i> , 2020 , 10, 1171	4.9	8
42	How accurate is MOLLI T1 mapping in vivo? Validation by spin echo methods. <i>PLoS ONE</i> , 2014 , 9, e107323	3.7	8
41	Initial Experience of Challenge-Free MRI-Based Oxygen Extraction Fraction Mapping of Ischemic Stroke at Various Stages: Comparison With Perfusion and Diffusion Mapping. <i>Frontiers in Neuroscience</i> , 2020 , 14, 535441	5.1	8
40	Discontinuity Preserving Liver MR Registration with 3D Active Contour Motion Segmentation. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 ,	5	8
39	Rapid whole brain myelin water content mapping without an external water standard at 1.5T. <i>Magnetic Resonance Imaging</i> , 2017 , 39, 82-88	3.3	7
38	Clinical feasibility of brain quantitative susceptibility mapping. <i>Magnetic Resonance Imaging</i> , 2019 , 60, 44-51	3.3	7
37	Free-Breathing 3D Imaging of Right Ventricular Structure and Function Using Respiratory and Cardiac Self-Gated Cine MRI. <i>BioMed Research International</i> , 2015 , 2015, 819102	3	6
36	Contrast-enhanced magnetic resonance angiography with biodegradable (Gd-DTPA)-cystamine copolymers: comparison with MS-325 in a swine model. <i>Molecular Pharmaceutics</i> , 2006 , 3, 558-65	5.6	6
35	Ischemic Mitral Regurgitation: Abnormal Strain Overestimates Nonviable Myocardium. <i>Annals of Thoracic Surgery</i> , 2018 , 105, 1754-1761	2.7	5
34	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. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019 , 21, 76	6.9	5
33	Automated adaptive preconditioner for quantitative susceptibility mapping. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 271-285	4.4	5
32	Improved targeting of the globus pallidus interna using quantitative susceptibility mapping prior to MR-guided focused ultrasound ablation in Parkinson's disease. <i>Clinical Imaging</i> , 2020 , 68, 94-98	2.7	4
31	Patch based reconstruction of undersampled data (PROUD) for high signal-to-noise ratio and high frame rate contrast enhanced liver imaging. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 1587-97	4.4	4
30	Dimethyl Fumarate Reduces Inflammation in Chronic Active Multiple Sclerosis Lesions.. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2022 , 9,	9.1	4

29	RSANet: Recurrent Slice-Wise Attention Network for Multiple Sclerosis Lesion Segmentation. <i>Lecture Notes in Computer Science</i> , 2019 , 411-419	0.9	4
28	Robust myelin quantitative imaging from multi-echo T2 MRI using edge preserving spatial priors. <i>Lecture Notes in Computer Science</i> , 2013 , 16, 622-30	0.9	4
27	Sliding motion compensated low-rank plus sparse (SMC-LS) reconstruction for high spatiotemporal free-breathing liver 4D DCE-MRI. <i>Magnetic Resonance Imaging</i> , 2019 , 58, 56-66	3.3	4
26	Estimation of Multiple Sclerosis lesion age on magnetic resonance imaging. <i>NeuroImage</i> , 2021 , 225, 117451	4.5	4
25	Quantitative transport mapping (QTM) of the kidney with an approximate microvascular network. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 2247-2262	4.4	4
24	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	4.1	3
23	Three-dimensional flow-independent balanced steady-state free precession vessel wall MRI of the popliteal artery: preliminary experience and comparison with flow-dependent black-blood techniques. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 34, 696-701	5.6	3
22	Deep neural network for water/fat separation: Supervised training, unsupervised training, and no training. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 2263-2277	4.4	3
21	Ensembling Low Precision Models for Binary Biomedical Image Segmentation 2021 ,		3
20	Structural disconnectivity from paramagnetic rim lesions is related to disability in multiple sclerosis. <i>Brain and Behavior</i> , 2021 , 11, e2353	3.4	3
19	Impact of Lesion Location on Longitudinal Myelin Water Fraction Change in Chronic Multiple Sclerosis Lesions. <i>Journal of Neuroimaging</i> , 2020 , 30, 537-543	2.8	2
18	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	4.4	2
17	Structural disconnectivity from quantitative susceptibility mapping rim+ lesions is related to disability in people with multiple sclerosis		2
16	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	4.4	2
15	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	4.4	2
14	An improved real-time navigator gating algorithm for reducing motion effects in coronary magnetic resonance angiography. <i>Journal of X-Ray Science and Technology</i> , 2003 , 11, 115-23	2.1	2
13	QSMRim-Net: Imbalance-aware learning for identification of chronic active multiple sclerosis lesions on quantitative susceptibility maps.. <i>NeuroImage: Clinical</i> , 2022 , 34, 102979	5.3	2
12	Disease correlates of rim lesions on quantitative susceptibility mapping in multiple sclerosis.. <i>Scientific Reports</i> , 2022 , 12, 4411	4.9	2

11	Electrocardiographic Pad for Efficient Cardiac MR Gating. <i>Radiology</i> , 2016 , 278, 578-84	20.5	1
10	Quantitative transport mapping (QTM) for differentiating benign and malignant breast lesion: Comparison with traditional kinetics modeling and semi-quantitative enhancement curve characteristics. <i>Magnetic Resonance Imaging</i> , 2021 , 86, 86-93	3.3	1
9	ALL-Net: Anatomical information lesion-wise loss function integrated into neural network for multiple sclerosis lesion segmentation. <i>NeuroImage: Clinical</i> , 2021 , 32, 102854	5.3	1
8	QQ-NET - 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> , 2021 , 87, 1583	4.4	1
7	Disease correlates of quantitative susceptibility mapping rim lesions in multiple sclerosis		1
6	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	4.4	1
5	Brain oxygen extraction fraction mapping in patients with multiple sclerosis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021 , 271678X211048031	7.3	1
4	GAMER MRI: Gated-attention mechanism ranking of multi-contrast MRI in brain pathology. <i>NeuroImage: Clinical</i> , 2021 , 29, 102522	5.3	1
3	Lesion features on magnetic resonance imaging discriminate multiple sclerosis patients. <i>European Journal of Neurology</i> , 2022 , 29, 237-246	6	0
2	Quantitative Water Permeability Mapping of Blood-Brain-Barrier Dysfunction in Aging.. <i>Frontiers in Aging Neuroscience</i> , 2022 , 14, 867452	5.3	0
1	Multispectral Imaging for Metallic Biopsy Marker Detection During MRI-Guided Breast Biopsy: A Feasibility Study for Clinical Translation. <i>Frontiers in Oncology</i> , 2021 , 11, 605014	5.3	