Thanh D Nguyen

List of Publications by Year in Descending Order

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	Dimethyl Fumarate Reduces Inflammation in Chronic Active Multiple Sclerosis Lesions.. *Neurology: Neuroimmunology and NeuroInflammation*, **2022**, 9,	9.1	4
81	Lesion features on magnetic resonance imaging discriminate multiple sclerosis patients. *European Journal of Neurology*, **2022**, 29, 237-246	6	0
80	QSMRim-Net: Imbalance-aware learning for identification of chronic active multiple sclerosis lesions on quantitative susceptibility maps.. *NeuroImage: Clinical*, **2022**, 34, 102979	5.3	2
79	Disease correlates of rim lesions on quantitative susceptibility mapping in multiple sclerosis.. *Scientific Reports*, **2022**, 12, 4411	4.9	2
78	Quantitative Water Permeability Mapping of Blood-Brain-Barrier Dysfunction in Aging.. *Frontiers in Aging Neuroscience*, **2022**, 14, 867452	5.3	0
77	Quantitative transport mapping (QTM) for differentiating benign and malignant breast lesion: Comparison with traditional kinetics modeling and semi-quantitative enhancement curve characteristics. *Magnetic Resonance Imaging*, **2021**, 86, 86-93	3.3	1
76	ALL-Net: Anatomical information lesion-wise loss function integrated into neural network for multiple sclerosis lesion segmentation. *NeuroImage: Clinical*, **2021**, 32, 102854	5.3	1
75	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. *Magnetic Resonance in Medicine*, **2021**, 87, 1583	4.4	1
74	QSM is an imaging biomarker for chronic glial activation in multiple sclerosis lesions. *Annals of Clinical and Translational Neurology*, **2021**, 8, 877-886	5.3	10
73	Myelin and axon pathology in multiple sclerosis assessed by myelin water and multi-shell diffusion imaging. *Brain*, **2021**, 144, 1684-1696	11.2	15
72	Multiecho complex total field inversion method (mcTFI) for improved signal modeling in quantitative susceptibility mapping. *Magnetic Resonance in Medicine*, **2021**, 86, 2165-2178	4.4	2
71	Temporal clustering, tissue composition, and total variation for mapping oxygen extraction fraction using QSM and quantitative BOLD. *Magnetic Resonance in Medicine*, **2021**, 86, 2635-2646	4.4	2
70	Estimation of Multiple Sclerosis lesion age on magnetic resonance imaging. *NeuroImage*, **2021**, 225, 117451	7.9	4
69	Quantitative transport mapping (QTM) of the kidney with an approximate microvascular network. *Magnetic Resonance in Medicine*, **2021**, 85, 2247-2262	4.4	4
68	Deep neural network for water/fat separation: Supervised training, unsupervised training, and no training. *Magnetic Resonance in Medicine*, **2021**, 85, 2263-2277	4.4	3
67	Ensembling Low Precision Models for Binary Biomedical Image Segmentation **2021**,		3
66	Multispectral Imaging for Metallic Biopsy Marker Detection During MRI-Guided Breast Biopsy: A Feasibility Study for Clinical Translation. *Frontiers in Oncology*, **2021**, 11, 605014	5.3	

65	Structural disconnectivity from paramagnetic rim lesions is related to disability in multiple sclerosis. *Brain and Behavior*, **2021**, 11, e2353	3.4	3
64	Brain oxygen extraction fraction mapping in patients with multiple sclerosis. *Journal of Cerebral Blood Flow and Metabolism*, **2021**, 271678X211048031	7.3	1
63	GAMER MRI: Gated-attention mechanism ranking of multi-contrast MRI in brain pathology. *NeuroImage: Clinical*, **2021**, 29, 102522	5.3	1
62	Improved targeting of the globus pallidus interna using quantitative susceptibility mapping prior to MR-guided focused ultrasound ablation in Parkinson's disease. *Clinical Imaging*, **2020**, 68, 94-98	2.7	4
61	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
60	Impact of Lesion Location on Longitudinal Myelin Water Fraction Change in Chronic Multiple Sclerosis Lesions. *Journal of Neuroimaging*, **2020**, 30, 537-543	2.8	2
59	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
58	Fidelity imposed network edit (FINE) for solving ill-posed image reconstruction. *NeuroImage*, **2020**, 211, 116579	7.9	18
57	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. *Magnetic Resonance in Medicine*, **2020**, 83, 844-857	4.4	16
56	Initial Experience of Challenge-Free MRI-Based Oxygen Extraction Fraction Mapping of Ischemic Stroke at Various Stages: Comparison With Perfusion and Diffusion Mapping. *Frontiers in Neuroscience*, **2020**, 14, 535441	5.1	8
55	Dipole modeling of multispectral signal for detecting metallic biopsy markers during MRI-guided breast biopsy: a pilot study. *Magnetic Resonance in Medicine*, **2020**, 83, 1380-1389	4.4	1
54	Automated adaptive preconditioner for quantitative susceptibility mapping. *Magnetic Resonance in Medicine*, **2020**, 83, 271-285	4.4	5
53	Clinical feasibility of brain quantitative susceptibility mapping. *Magnetic Resonance Imaging*, **2019**, 60, 44-51	3.3	7
52	Quantitative Susceptibility Mapping of Time-Dependent Susceptibility Changes in Multiple Sclerosis Lesions. *American Journal of Neuroradiology*, **2019**, 40, 987-993	4.4	18
51	RSANet: Recurrent Slice-Wise Attention Network for Multiple Sclerosis Lesion Segmentation. *Lecture Notes in Computer Science*, **2019**, 411-419	0.9	4
50	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
49	Quantitative susceptibility mapping identifies inflammation in a subset of chronic multiple sclerosis lesions. *Brain*, **2019**, 142, 133-145	11.2	69
48	Rapid automated liver quantitative susceptibility mapping. *Journal of Magnetic Resonance Imaging*, **2019**, 50, 725-732	5.6	14

47	Sliding motion compensated low-rank plus sparse (SMC-LS) reconstruction for high spatiotemporal free-breathing liver 4D DCE-MRI. *Magnetic Resonance Imaging*, **2019**, 58, 56-66	3.3	4
46	Multicenter reproducibility of quantitative susceptibility mapping in a gadolinium phantom using MEDI+0 automatic zero referencing. *Magnetic Resonance in Medicine*, **2019**, 81, 1229-1236	4.4	22
45	Cerebral metabolic rate of oxygen (CMRO) mapping by combining quantitative susceptibility mapping (QSM) and quantitative blood oxygenation level-dependent imaging (qBOLD). *Magnetic Resonance in Medicine*, **2018**, 80, 1595-1604	4.4	31
44	Diagnostic accuracy of semiautomatic lesion detection plus quantitative susceptibility mapping in the identification of new and enhancing multiple sclerosis lesions. *NeuroImage: Clinical*, **2018**, 18, 143-148	5.3	11
43	Ischemic Mitral Regurgitation: Abnormal Strain Overestimates Nonviable Myocardium. *Annals of Thoracic Surgery*, **2018**, 105, 1754-1761	2.7	5
42	Fast and Robust Unsupervised Identification of MS Lesion Change Using the Statistical Detection of Changes Algorithm. *American Journal of Neuroradiology*, **2018**, 39, 830-833	4.4	2
41	Magnetic susceptibility increases as diamagnetic molecules breakdown: Myelin digestion during multiple sclerosis lesion formation contributes to increase on QSM. *Journal of Magnetic Resonance Imaging*, **2018**, 48, 1281-1287	5.6	17
40	Quantitative susceptibility mapping-based cerebral metabolic rate of oxygen mapping with minimum local variance. *Magnetic Resonance in Medicine*, **2018**, 79, 172-179	4.4	22
39	Cardiac quantitative susceptibility mapping (QSM) for heart chamber oxygenation. *Magnetic Resonance in Medicine*, **2018**, 79, 1545-1552	4.4	16
38	Significance and Detection of Iron-Laden Microglia in White Matter Multiple Sclerosis Lesions. *Frontiers in Immunology*, **2018**, 9, 255	8.4	33
37	Discontinuity Preserving Liver MR Registration with 3D Active Contour Motion Segmentation. *IEEE Transactions on Biomedical Engineering*, **2018**,	5	8
36	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
35	Enhanced astrocyte responses are driven by a genetic risk allele associated with multiple sclerosis. *Nature Communications*, **2018**, 9, 5337	17.4	34
34	Cerebral metabolic rate of oxygen (CMRO) mapping with hyperventilation challenge using quantitative susceptibility mapping (QSM). *Magnetic Resonance in Medicine*, **2017**, 77, 1762-1773	4.4	33
33	Rapid whole brain myelin water content mapping without an external water standard at 1.5T. *Magnetic Resonance Imaging*, **2017**, 39, 82-88	3.3	7
32	MRI Analysis of White Matter Myelin Water Content in Multiple Sclerosis: A Novel Approach Applied to Finding Correlates of Cortical Thinning. *Frontiers in Neuroscience*, **2017**, 11, 284	5.1	11
31	Electrocardiographic Pad for Efficient Cardiac MR Gating. *Radiology*, **2016**, 278, 578-84	20.5	1
30	Profilometry: A new statistical framework for the characterization of white matter pathways, with application to multiple sclerosis. *Human Brain Mapping*, **2016**, 37, 989-1004	5.9	24

29	Feasibility and reproducibility of whole brain myelin water mapping in 4 minutes using fast acquisition with spiral trajectory and adiabatic T2prep (FAST-T2) at 3T. *Magnetic Resonance in Medicine*, **2016**, 76, 456-65	4.4	35
28	Quantitative Susceptibility Mapping of Intracerebral Hemorrhages at Various Stages. *Journal of Magnetic Resonance Imaging*, **2016**, 44, 420-5	5.6	30
27	Reproducibility of quantitative susceptibility mapping in the brain at two field strengths from two vendors. *Journal of Magnetic Resonance Imaging*, **2015**, 42, 1592-600	5.6	69
26	Measuring longitudinal myelin water fraction in new multiple sclerosis lesions. *NeuroImage: Clinical*, **2015**, 9, 369-75	5.3	42
25	Quantitative mapping of cerebral metabolic rate of oxygen (CMRO2) using quantitative susceptibility mapping (QSM). *Magnetic Resonance in Medicine*, **2015**, 74, 945-52	4.4	92
24	Patch based reconstruction of undersampled data (PROUD) for high signal-to-noise ratio and high frame rate contrast enhanced liver imaging. *Magnetic Resonance in Medicine*, **2015**, 74, 1587-97	4.4	4
23	Algorithm for fast monoexponential fitting based on Auto-Regression on Linear Operations (ARLO) of data. *Magnetic Resonance in Medicine*, **2015**, 73, 843-50	4.4	33
22	Free-Breathing 3D Imaging of Right Ventricular Structure and Function Using Respiratory and Cardiac Self-Gated Cine MRI. *BioMed Research International*, **2015**, 2015, 819102	3	6
21	Direct coronary motion extraction from a 2D fat image navigator for prospectively gated coronary MR angiography. *Magnetic Resonance in Medicine*, **2014**, 71, 599-607	4.4	25
20	Self-gated free-breathing 3D coronary CINE imaging with simultaneous water and fat visualization. *PLoS ONE*, **2014**, 9, e89315	3.7	11
19	Multi-compartment T2 relaxometry using a spatially constrained multi-Gaussian model. *PLoS ONE*, **2014**, 9, e98391	3.7	38
18	How accurate is MOLLI T1 mapping in vivo? Validation by spin echo methods. *PLoS ONE*, **2014**, 9, e107327	3.7	8
17	Mitral apparatus assessment by delayed enhancement CMR: relative impact of infarct distribution on mitral regurgitation. *JACC: Cardiovascular Imaging*, **2013**, 6, 220-34	8.4	50
16	Robust myelin quantitative imaging from multi-echo T2 MRI using edge preserving spatial priors. *Lecture Notes in Computer Science*, **2013**, 16, 622-30	0.9	4
15	T2 prep three-dimensional spiral imaging with efficient whole brain coverage for myelin water quantification at 1.5 tesla. *Magnetic Resonance in Medicine*, **2012**, 67, 614-21	4.4	48
14	Bayesian algorithm using spatial priors for multiexponential T□relaxometry from multiecho spin echo MRI. *Magnetic Resonance in Medicine*, **2012**, 68, 1536-43	4.4	45
13	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. *Journal of Magnetic Resonance Imaging*, **2011**, 34, 696-701	5.6	3
12	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. *Magnetic Resonance in Medicine*, **2010**, 63, 736-44	4.4	10

11	Free-breathing 3-dimensional steady-state free precession coronary magnetic resonance angiography: comparison of four navigator gating techniques. *Magnetic Resonance Imaging*, **2009**, 27, 807-14	3.3	15
10	A fast navigator-gated 3D sequence for delayed enhancement MRI of the myocardium: comparison with breathhold 2D imaging. *Journal of Magnetic Resonance Imaging*, **2008**, 27, 802-8	5.6	43
9	Free-breathing 3D steady-state free precession coronary magnetic resonance angiography: comparison of diaphragm and cardiac fat navigators. *Journal of Magnetic Resonance Imaging*, **2008**, 28, 509-14	5.6	12
8	Effective motion-sensitizing magnetization preparation for black blood magnetic resonance imaging of the heart. *Journal of Magnetic Resonance Imaging*, **2008**, 28, 1092-100	5.6	41
7	Cardiac fat navigator-gated steady-state free precession 3D magnetic resonance angiography of coronary arteries. *Magnetic Resonance in Medicine*, **2006**, 56, 210-5	4.4	26
6	Contrast-enhanced magnetic resonance angiography with biodegradable (Gd-DTPA)-cystamine copolymers: comparison with MS-325 in a swine model. *Molecular Pharmaceutics*, **2006**, 3, 558-65	5.6	6
5	Direct monitoring of coronary artery motion with cardiac fat navigator echoes. *Magnetic Resonance in Medicine*, **2003**, 50, 235-41	4.4	36
4	An improved real-time navigator gating algorithm for reducing motion effects in coronary magnetic resonance angiography. *Journal of X-Ray Science and Technology*, **2003**, 11, 115-23	2.1	2
3	k-Space weighted least-squares algorithm for accurate and fast motion extraction from magnetic resonance navigator echoes. *Magnetic Resonance in Medicine*, **2001**, 46, 1037-40	4.4	9
2	Structural disconnectivity from quantitative susceptibility mapping rim+ lesions is related to disability in people with multiple sclerosis		2
1	Disease correlates of quantitative susceptibility mapping rim lesions in multiple sclerosis		1