

Thanh D Nguyen

List of Publications by Year in descending order

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Version: 2024-02-01

95
papers

2,239
citations

218381

26
h-index

288905

40
g-index

103
all docs

103
docs citations

103
times ranked

2543
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Quantitative susceptibility mapping identifies inflammation in a subset of chronic multiple sclerosis lesions. <i>Brain</i> , 2019, 142, 133-145. | 3.7 | 136 |
| 2 | Quantitative mapping of cerebral metabolic rate of oxygen (CMRO ₂) using quantitative susceptibility mapping (QSM). <i>Magnetic Resonance in Medicine</i> , 2015, 74, 945-952. | 1.9 | 117 |
| 3 | 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 |
| 4 | <i>T</i> ₂ 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, 614-621. | 1.9 | 67 |
| 5 | Mitral Apparatus Assessment by Delayed Enhancement CMR. <i>JACC: Cardiovascular Imaging</i> , 2013, 6, 220-234. | 2.3 | 62 |
| 6 | Myelin and axon pathology in multiple sclerosis assessed by myelin water and multi-shell diffusion imaging. <i>Brain</i> , 2021, 144, 1684-1696. | 3.7 | 61 |
| 7 | Measuring longitudinal myelin water fraction in new multiple sclerosis lesions. <i>NeuroImage: Clinical</i> , 2015, 9, 369-375. | 1.4 | 58 |
| 8 | 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. | 1.9 | 57 |
| 9 | Bayesian algorithm using spatial priors for multiexponential <i>T</i> ₂ relaxometry from multiecho spin echo MRI. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1536-1543. | 1.9 | 56 |
| 10 | Enhanced astrocyte responses are driven by a genetic risk allele associated with multiple sclerosis. <i>Nature Communications</i> , 2018, 9, 5337. | 5.8 | 54 |
| 11 | Significance and In Vivo Detection of Iron-Laden Microglia in White Matter Multiple Sclerosis Lesions. <i>Frontiers in Immunology</i> , 2018, 9, 255. | 2.2 | 54 |
| 12 | Algorithm for fast monoexponential fitting based on Auto-Regression on Linear Operations (ARLO) of data. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 843-850. | 1.9 | 53 |
| 13 | 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. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 456-465. | 1.9 | 53 |
| 14 | Effective motion-sensitizing magnetization preparation for black blood magnetic resonance imaging of the heart. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 28, 1092-1100. | 1.9 | 51 |
| 15 | 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, 802-808. | 1.9 | 49 |
| 16 | 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. | 1.9 | 47 |
| 17 | Multi-Compartment T2 Relaxometry Using a Spatially Constrained Multi-Gaussian Model. <i>PLoS ONE</i> , 2014, 9, e98391. | 1.1 | 44 |
| 18 | Direct monitoring of coronary artery motion with cardiac fat navigator echoes. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 235-241. | 1.9 | 40 |

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|----|--|-----|-----------|
| 19 | Quantitative Susceptibility Mapping of Intracerebral Hemorrhages at Various Stages. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 44, 420-425. | 1.9 | 39 |
| 20 | 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 |
| 21 | 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. | 1.7 | 37 |
| 22 | 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. | 1.9 | 34 |
| 23 | 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 |
| 24 | Quantitative Susceptibility Mapping of Time-Dependent Susceptibility Changes in Multiple Sclerosis Lesions. <i>American Journal of Neuroradiology</i> , 2019, 40, 987-993. | 1.2 | 33 |
| 25 | Quantitative susceptibility mappingâ€based cerebral metabolic rate of oxygen mapping with minimum local variance. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 172-179. | 1.9 | 32 |
| 26 | Cluster analysis of time evolution (CAT) for quantitative susceptibility mapping (QSM) and quantitative blood oxygen levelâ€dependent magnitude (qBOLD)â€based oxygen extraction fraction (OEF) and cerebral metabolic rate of oxygen (CMRO ₂) mapping. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 844-857. | 1.9 | 32 |
| 27 | 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 |
| 28 | Fidelity imposed network edit (FINE) for solving ill-posed image reconstruction. <i>NeuroImage</i> , 2020, 211, 116579. | 2.1 | 31 |
| 29 | A New Advanced <sc>MRI</sc> Biomarker for Remyelinated Lesions in Multiple Sclerosis. <i>Annals of Neurology</i> , 2022, 92, 486-502. | 2.8 | 28 |
| 30 | Cardiac fat navigator-gated steady-state free precession 3D magnetic resonance angiography of coronary arteries. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 210-215. | 1.9 | 27 |
| 31 | Rapid automated liver quantitative susceptibility mapping. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 725-732. | 1.9 | 27 |
| 32 | 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. | 1.9 | 26 |
| 33 | Disease correlates of rim lesions on quantitative susceptibility mapping in multiple sclerosis. <i>Scientific Reports</i> , 2022, 12, 4411. | 1.6 | 25 |
| 34 | 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 |
| 35 | Dimethyl Fumarate Reduces Inflammation in Chronic Active Multiple Sclerosis Lesions. <i>Neurology: Neuroimmunology and Neuroinflammation</i> , 2022, 9, . | 3.1 | 24 |
| 36 | Cardiac quantitative susceptibility mapping (QSM) for heart chamber oxygenation. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1545-1552. | 1.9 | 23 |

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|----|--|-----|-----------|
| 37 | Validation of MRI quantitative susceptibility mapping of superparamagnetic iron oxide nanoparticles for hyperthermia applications in live subjects. <i>Scientific Reports</i> , 2020, 10, 1171. | 1.6 | 18 |
| 38 | 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, 807-814. | 1.0 | 16 |
| 39 | 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. | 1.4 | 16 |
| 40 | Structural disconnectivity from paramagnetic rim lesions is related to disability in multiple sclerosis. <i>Brain and Behavior</i> , 2021, 11, e2353. | 1.0 | 16 |
| 41 | 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 |
| 42 | 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 |
| 43 | 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 |
| 44 | Self-Gated Free-Breathing 3D Coronary CINE Imaging with Simultaneous Water and Fat Visualization. <i>PLoS ONE</i> , 2014, 9, e89315. | 1.1 | 15 |
| 45 | QSMRim-Net: Imbalance-aware learning for identification of chronic active multiple sclerosis lesions on quantitative susceptibility maps. <i>NeuroImage: Clinical</i> , 2022, 34, 102979. | 1.4 | 15 |
| 46 | 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, 509-514. | 1.9 | 14 |
| 47 | 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. | 1.4 | 14 |
| 48 | 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 |
| 49 | How Accurate Is MOLLI T1 Mapping In Vivo? Validation by Spin Echo Methods. <i>PLoS ONE</i> , 2014, 9, e107327. | 1.1 | 14 |
| 50 | ALL-Net: Anatomical information lesion-wise loss function integrated into neural network for multiple sclerosis lesion segmentation. <i>NeuroImage: Clinical</i> , 2021, 32, 102854. | 1.4 | 14 |
| 51 | Quantitative Water Permeability Mapping of Blood-Brain-Barrier Dysfunction in Aging. <i>Frontiers in Aging Neuroscience</i> , 2022, 14, 867452. | 1.7 | 14 |
| 52 | 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, 70. | 1.6 | 13 |
| 53 | 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 |
| 54 | Brain oxygen extraction fraction mapping in patients with multiple sclerosis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 338-348. | 2.4 | 13 |

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|----|--|-----|-----------|
| 55 | 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, 1037-1040. | 1.9 | 12 |
| 56 | 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, 736-744. | 1.9 | 12 |
| 57 | Rapid whole brain myelin water content mapping without an external water standard at 1.5 T. <i>Magnetic Resonance Imaging</i> , 2017, 39, 82-88. | 1.0 | 12 |
| 58 | Ischemic Mitral Regurgitation: Abnormal Strain Overestimates Nonviable Myocardium. <i>Annals of Thoracic Surgery</i> , 2018, 105, 1754-1761. | 0.7 | 12 |
| 59 | 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 |
| 60 | RSANet: Recurrent Slice-Wise Attention Network for Multiple Sclerosis Lesion Segmentation. <i>Lecture Notes in Computer Science</i> , 2019, , 411-419. | 1.0 | 12 |
| 61 | Estimation of Multiple Sclerosis lesion age on magnetic resonance imaging. <i>NeuroImage</i> , 2021, 225, 117451. | 2.1 | 11 |
| 62 | 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 |
| 63 | QSM+qBOLD 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 |
| 64 | 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 |
| 65 | Clinical feasibility of brain quantitative susceptibility mapping. <i>Magnetic Resonance Imaging</i> , 2019, 60, 44-51. | 1.0 | 9 |
| 66 | 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 |
| 67 | Susceptibility source separation from gradient echo data using magnitude decay modeling. <i>Journal of Neuroimaging</i> , 2022, 32, 852-859. | 1.0 | 9 |
| 68 | 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, 1-9. | 0.9 | 8 |
| 69 | 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> , 2022, 86, 86-93. | 1.0 | 8 |
| 70 | 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, 1587-1597. | 1.9 | 7 |
| 71 | Automated adaptive preconditioner for quantitative susceptibility mapping. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 271-285. | 1.9 | 7 |
| 72 | Impact of Lesion Location on Longitudinal Myelin Water Fraction Change in Chronic Multiple Sclerosis Lesions. <i>Journal of Neuroimaging</i> , 2020, 30, 537-543. | 1.0 | 7 |

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|----|---|-----|-----------|
| 73 | Geometric Loss For Deep Multiple Sclerosis Lesion Segmentation. , 2021, , . | | 7 |
| 74 | Global cerebrospinal fluid as a zero-reference regularization for brain quantitative susceptibility mapping. Journal of Neuroimaging, 2022, 32, 141-147. | 1.0 | 7 |
| 75 | Magnetic Susceptibility Source Separation Solely from Gradient Echo Data: Histological Validation. Tomography, 2022, 8, 1544-1551. | 0.8 | 7 |
| 76 | Contrast-Enhanced Magnetic Resonance Angiography with Biodegradable (Gd-DTPA)-Cystamine Copolymers: Comparison with MS-325 in a Swine Model. Molecular Pharmaceutics, 2006, 3, 558-565. | 2.3 | 6 |
| 77 | 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. | 0.8 | 6 |
| 78 | Ensembling Low Precision Models for Binary Biomedical Image Segmentation. , 2021, , . | | 6 |
| 79 | Robust Myelin Quantitative Imaging from Multi-echo T2 MRI Using Edge Preserving Spatial Priors. Lecture Notes in Computer Science, 2013, 16, 622-630. | 1.0 | 6 |
| 80 | Fast and Robust Unsupervised Identification of MS Lesion Change Using the Statistical Detection of Changes Algorithm. American Journal of Neuroradiology, 2018, 39, 830-833. | 1.2 | 5 |
| 81 | 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. | 1.0 | 5 |
| 82 | Brain oxygen extraction and neural tissue susceptibility are associated with cognitive impairment in older individuals. Journal of Neuroimaging, 2022, 32, 697-709. | 1.0 | 5 |
| 83 | 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. | 1.9 | 4 |
| 84 | Lesion features on magnetic resonance imaging discriminate multiple sclerosis patients. European Journal of Neurology, 2022, 29, 237-246. | 1.7 | 4 |
| 85 | GAMER MRI: Gated-attention mechanism ranking of multi-contrast MRI in brain pathology. NeuroImage: Clinical, 2021, 29, 102522. | 1.4 | 4 |
| 86 | Subsecond accurate myelin water fraction reconstruction from FAST data with 3D UNET. Magnetic Resonance in Medicine, 2022, 87, 2979-2988. | 1.9 | 3 |
| 87 | Electrocardiographic Pad for Efficient Cardiac MR Gating. Radiology, 2016, 278, 578-584. | 3.6 | 2 |
| 88 | 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. | 1.9 | 2 |
| 89 | 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. | 0.7 | 2 |
| 90 | Editorial for Reference Ranges, Diagnostic and Prognostic Utility of Native T1 Mapping and Extracellular Volume for Cardiac Amyloidosis: A Meta-analysis. Journal of Magnetic Resonance Imaging, 2021, 53, 1469-1470. | 1.9 | 1 |

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|----|--|-----|-----------|
| 91 | The central vein sign in multiple sclerosis lesions: Susceptibility relaxation optimization from a routine MRI multiecho gradient echo sequence. Journal of Neuroimaging, 2022, 32, 48-56. | 1.0 | 1 |
| 92 | Noninvasive functional imaging of the heart using MRI: opportunities and challenges. , 2007, , . | | 0 |
| 93 | Multispectral Imaging for Metallic Biopsy Marker Detection During MRI-Guided Breast Biopsy: A Feasibility Study for Clinical Translation. Frontiers in Oncology, 2021, 11, 605014. | 1.3 | 0 |
| 94 | Editorial for "Magnetic Resonance Assessment of Left Ventricular Ejection Fraction at Any Time Post-Infarction" for Prediction of Subsequent Events in a Large Multicenter STEMI Registry. Journal of Magnetic Resonance Imaging, 2022, 56, 488-489. | 1.9 | 0 |
| 95 | Improved Signal-to-Noise Ratio in Parallel Coronary Artery Magnetic Resonance Angiography using Graph Cuts based Bayesian Reconstruction. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , . | 0.5 | 0 |