

# Xu Li

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

1,835  
citations

279701

23  
h-index

276775

41  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1956  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Quantitative susceptibility mapping: Report from the 2016 reconstruction challenge. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1661-1673.  | 1.9 | 151       |
| 2  | Human brain atlas for automated region of interest selection in quantitative susceptibility mapping: Application to determine iron content in deep gray matter structures. <i>NeuroImage</i> , 2013, 82, 449-469. | 2.1 | 138       |
| 3  | Quantitative Susceptibility Mapping Suggests Altered Brain Iron in Premanifest Huntington Disease. <i>American Journal of Neuroradiology</i> , 2016, 37, 789-796.   | 1.2 | 107       |
| 4  | Imaging Electrical Impedance From Acoustic Measurements by Means of Magnetoacoustic Tomography With Magnetic Induction (MAT-MI). <i>IEEE Transactions on Biomedical Engineering</i> , 2007, 54, 323-330.          | 2.5 | 95        |
| 5  | Mapping magnetic susceptibility anisotropies of white matter in vivo in the human brain at 7T. <i>NeuroImage</i> , 2012, 62, 314-330.   | 2.1 | 92        |
| 6  | Magnetoacoustic tomography with magnetic induction for imaging electrical impedance of biological tissue. <i>Journal of Applied Physics</i> , 2006, 99, 066112.   | 1.1 | 81        |
| 7  | Magnetic susceptibility contrast variations in multiple sclerosis lesions. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 463-473.  | 1.9 | 79        |
| 8  | Lesion Heterogeneity on High-Field Susceptibility MRI Is Associated with Multiple Sclerosis Severity. <i>American Journal of Neuroradiology</i> , 2016, 37, 1447-1453.  | 1.2 | 73        |
| 9  | Brain iron deficiency in idiopathic restless legs syndrome measured by quantitative magnetic susceptibility at 7 tesla. <i>Sleep Medicine</i> , 2016, 22, 75-82.  | 0.8 | 70        |
| 10 | Brain imaging and networks in restless legs syndrome. <i>Sleep Medicine</i> , 2017, 31, 39-48.  | 0.8 | 70        |
| 11 | Magnetoacoustic tomographic imaging of electrical impedance with magnetic induction. <i>Applied Physics Letters</i> , 2007, 91, 083903.   | 1.5 | 60        |
| 12 | Susceptibility tensor imaging (STI) of the brain. <i>NMR in Biomedicine</i> , 2017, 30, e3540.  | 1.6 | 59        |
| 13 | Multi-atlas tool for automated segmentation of brain gray matter nuclei and quantification of their magnetic susceptibility. <i>NeuroImage</i> , 2019, 191, 337-349.  | 2.1 | 54        |
| 14 | Altered brain iron content and deposition rate in Huntington's disease as indicated by quantitative susceptibility MRI. <i>Journal of Neuroscience Research</i> , 2019, 97, 467-479.                              | 1.3 | 45        |
| 15 | Multi-excitation Magnetoacoustic Tomography With Magnetic Induction for Bioimpedance Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2010, 29, 1759-1767.  | 5.4 | 43        |
| 16 | Memory performance-related dynamic brain connectivity indicates pathological burden and genetic risk for Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2017, 9, 24.                              | 3.0 | 43        |
| 17 | Quantitative Susceptibility Mapping Using Structural Feature Based Collaborative Reconstruction (SFCR) in the Human Brain. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 2040-2050.                     | 5.4 | 37        |
| 18 | Magnetoacoustic tomography with magnetic induction (MAT-MI) for imaging electrical conductivity of biological tissue: a tutorial review. <i>Physics in Medicine and Biology</i> , 2016, 61, R249-R270.            | 1.6 | 37        |

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|----|--|-----|-----------|
| 19 | Imaging biological tissues with electrical conductivity contrast below $10^{-1}$ by means of magnetoacoustic tomography with magnetic induction. Applied Physics Letters, 2010, 97, .                                    | 1.5 | 36        |
| 20 | Reconstruction of Vectorial Acoustic Sources in Time-Domain Tomography. IEEE Transactions on Medical Imaging, 2009, 28, 669-675.   | 5.4 | 34        |
| 21 | B-Scan Based Acoustic Source Reconstruction for Magnetoacoustic Tomography With Magnetic Induction (MAT-MI). IEEE Transactions on Biomedical Engineering, 2011, 58, 713-720.   | 2.5 | 30        |
| 22 | Quantitative Susceptibility Mapping of Brain Iron and $\beta$ -Amyloid in MRI and PET Relating to Cognitive Performance in Cognitively Normal Older Adults. Radiology, 2021, 298, 353-362.                               | 3.6 | 29        |
| 23 | Mean magnetic susceptibility regularized susceptibility tensor imaging (MMSR-STI) for estimating orientations of white matter fibers in human brain. Magnetic Resonance in Medicine, 2014, 72, 610-619.                  | 1.9 | 27        |
| 24 | Nuclei-specific deposits of iron and calcium in the rat thalamus after status epilepticus revealed with quantitative susceptibility mapping (QSM). Journal of Magnetic Resonance Imaging, 2018, 47, 554-564.             | 1.9 | 26        |
| 25 | Low cortical iron and high entorhinal cortex volume promote cognitive functioning in the oldest-old. Neurobiology of Aging, 2018, 64, 68-75.   | 1.5 | 25        |
| 26 | 3D current source density imaging based on the acoustoelectric effect: a simulation study using unipolar pulses. Physics in Medicine and Biology, 2011, 56, 3825-3842.   | 1.6 | 23        |
| 27 | APOE4 moderates effects of cortical iron on synchronized default mode network activity in cognitively healthy old-aged adults. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2020, 12, e12002. | 1.2 | 23        |
| 28 | Solving the forward problem of magnetoacoustic tomography with magnetic induction by means of the finite element method. Physics in Medicine and Biology, 2009, 54, 2667-2682.   | 1.6 | 22        |
| 29 | Susceptibility-based analysis of dynamic gadolinium bolus perfusion MRI. Magnetic Resonance in Medicine, 2015, 73, 544-554.  | 1.9 | 19        |
| 30 | Comparison Study of Three Different Image Reconstruction Algorithms for MAT-MI. IEEE Transactions on Biomedical Engineering, 2010, 57, 708-713.  | 2.5 | 18        |
| 31 | A 3-D Reconstruction Solution to Current Density Imaging Based on Acoustoelectric Effect by Deconvolution: A Simulation Study. IEEE Transactions on Biomedical Engineering, 2013, 60, 1181-1190.                         | 2.5 | 18        |
| 32 | $B_0$ -orientation dependent magnetic susceptibility-induced white matter contrast in the human brainstem at 11.7T. Magnetic Resonance in Medicine, 2016, 75, 2455-2463.   | 1.9 | 18        |
| 33 | Quantitative magnetic susceptibility mapping without phase unwrapping using WASSR. NeuroImage, 2014, 86, 265-279.  | 2.1 | 17        |
| 34 | Three-dimensional multiexcitation magnetoacoustic tomography with magnetic induction. Journal of Applied Physics, 2010, 108, 124702.   | 1.1 | 16        |
| 35 | Diffusion-regularized susceptibility tensor imaging (DRSTI) of tissue microstructures in the human brain. Medical Image Analysis, 2021, 67, 101827.  | 7.0 | 16        |
| 36 | Learned Proximal Networks for Quantitative Susceptibility Mapping. Lecture Notes in Computer Science, 2020, 12262, 125-135.  | 1.0 | 14        |

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|----|--|-----|-----------|
| 37 | Extracellular vesicles reveal abnormalities in neuronal iron metabolism in restless legs syndrome. <i>Sleep</i> , 2019, 42, .  | 0.6 | 13        |
| 38 | Magnetoacoustic tomography with magnetic induction (MAT-MI) for breast tumor imaging: numerical modeling and simulation. <i>Physics in Medicine and Biology</i> , 2011, 56, 1967-1983.                                 | 1.6 | 12        |
| 39 | Background field removal using a region adaptive kernel for quantitative susceptibility mapping of human brain. <i>Journal of Magnetic Resonance</i> , 2017, 281, 130-140.   | 1.2 | 12        |
| 40 | Background field removal for susceptibility mapping of human brain with large susceptibility variations. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2025-2037.  | 1.9 | 12        |
| 41 | Multi-layer analysis of quantitative 7T magnetic resonance imaging in the cortex of multiple sclerosis patients reveals pathology associated with disability. <i>Multiple Sclerosis Journal</i> , 2021, 27, 2040-2051. | 1.4 | 10        |
| 42 | White matter demyelination predates axonal injury after ischemic stroke in cynomolgus monkeys. <i>Experimental Neurology</i> , 2021, 340, 113655.  | 2.0 | 9         |
| 43 | Three-dimensional noninvasive ultrasound Joule heat tomography based on the acousto-electric effect using unipolar pulses: a simulation study. <i>Physics in Medicine and Biology</i> , 2012, 57, 7689-7708.           | 1.6 | 7         |
| 44 | Simulation and Experiment Study of Magnetoacoustic Tomography with Magnetic Induction (MAT-MI) for Bioimpedance Imaging. , 0, , .  |     | 3         |
| 45 | Acoustic vector tomography and its application to magnetoacoustic tomography with magnetic induction (MAT-MI). , 2008, 2008, 5834-6.   |     | 3         |
| 46 | Magnetoacoustic tomography with magnetic induction (MAT-MI) for electrical conductivity imaging. , 2009, 2009, 3173-6.   |     | 3         |
| 47 | Single-step calculation of susceptibility through multiple orientation sampling. <i>NMR in Biomedicine</i> , 2021, 34, e4517.  | 1.6 | 3         |
| 48 | Magnetoacoustic Tomography of Biological Tissue with Magnetic Induction. , 2007, , .   |     | 2         |
| 49 | A Simulation Study of Two Dimensional Magnetoacoustic Tomography with Magnetic Induction. , 2007, , .  |     | 0         |