

# Chunlei Liu

## List of Publications by Year in Descending Order

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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.

120 papers	5,430 citations	37 h-index	71 g-index
126 ext. papers	6,590 ext. citations	6.1 avg, IF	5.97 L-index

#	Paper	IF	Citations
120	Basilar artery thrombus magnetic susceptibility for cardioembolic stroke identification.. <i>Quantitative Imaging in Medicine and Surgery</i> , <b>2022</b> , 12, 1579-1584	3.6	
119	Predictive value of thrombus susceptibility for cardioembolic stroke by quantitative susceptibility mapping.. <i>Quantitative Imaging in Medicine and Surgery</i> , <b>2022</b> , 12, 550-557	3.6	1
118	Involvement of the crosstalk between Nrf2 and NF- $\kappa$ B pathways regulated by SIRT1 in myocardial ischemia/reperfusion injury.. <i>International Journal of Cardiology</i> , <b>2022</b> ,	3.2	
117	Cortical iron mediates age-related decline in fluid cognition. <i>Human Brain Mapping</i> , <b>2021</b> ,	5.9	1
116	Serum Ceruloplasmin Depletion is Associated With Magnetic Resonance Evidence of Widespread Accumulation of Brain Iron in Parkinson's Disease. <i>Journal of Magnetic Resonance Imaging</i> , <b>2021</b> , 54, 1098-1106 <sup>O</sup>	5.6	
115	Asymmetric susceptibility tensor imaging. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 2266-2275	4.4	0
114	DiSpect: Displacement spectrum imaging of flow and tissue perfusion using spin-labeling and stimulated echoes. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 2468-2481	4.4	0
113	DTI Tract-Based Quantitative Susceptibility Mapping: An Initial Feasibility Study to Investigate the Potential Role of Myelination in Brain Connectivity Change in Cerebral Palsy Patients During Autologous Cord Blood Cell Therapy Using a Rotationally-Invariant Quantitative Measure. <i>Journal of Magnetic Resonance Imaging</i> , <b>2021</b> , 53, 251-258	5.6	4
112	Decoding COVID-19 pneumonia: comparison of deep learning and radiomics CT image signatures. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2021</b> , 48, 1478-1486	8.8	19
111	Quantitative Susceptibility Mapping of the Hippocampal Fimbria in Alzheimer's Disease. <i>Journal of Magnetic Resonance Imaging</i> , <b>2021</b> , 53, 1823-1832	5.6	1
110	MoDL-QSM: Model-based deep learning for quantitative susceptibility mapping. <i>NeuroImage</i> , <b>2021</b> , 240, 118376	7.9	4
109	Evaluating methods and protocols of ferritin-based magnetogenetics. <i>iScience</i> , <b>2021</b> , 24, 103094	6.1	2
108	Decompose quantitative susceptibility mapping (QSM) to sub-voxel diamagnetic and paramagnetic components based on gradient-echo MRI data. <i>NeuroImage</i> , <b>2021</b> , 242, 118477	7.9	1
107	Elevated homocysteine and differential risks of the renal function decline in hypertensive patients. <i>Clinical and Experimental Hypertension</i> , <b>2020</b> , 42, 565-570	2.2	3
106	Lipid Oxidation Induced by RF Waves and Mediated by Ferritin Iron Causes Activation of Ferritin-Tagged Ion Channels. <i>Cell Reports</i> , <b>2020</b> , 30, 3250-3260.e7	10.6	12
105	Imaging microstructure with diffusion and susceptibility MR: neuronal density correlation in Disrupted-in-Schizophrenia-1 mutant mice. <i>NMR in Biomedicine</i> , <b>2020</b> , 33, e4365	4.4	5
104	Multiphoton magnetic resonance in imaging: A classical description and implementation. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 1184-1197	4.4	3

103	Asymmetrical nigral iron accumulation in Parkinson's disease with motor asymmetry: an explorative, longitudinal and test-retest study. <i>Aging</i> , <b>2020</b> , 12, 18622-18634	5.6	3
102	Generalized parameter estimation in multi-echo gradient-echo-based chemical species separation. <i>Quantitative Imaging in Medicine and Surgery</i> , <b>2020</b> , 10, 554-567	3.6	5
101	Toward a marker of upper motor neuron impairment in amyotrophic lateral sclerosis: A fully automatic investigation of the magnetic susceptibility in the precentral cortex. <i>European Journal of Radiology</i> , <b>2020</b> , 124, 108815	4.7	9
100	Brain MRI with Quantitative Susceptibility Mapping: Relationship to CT Attenuation Values. <i>Radiology</i> , <b>2020</b> , 294, 600-609	20.5	9
99	Consensus-based technical recommendations for clinical translation of renal BOLD MRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2020</b> , 33, 199-215	2.8	21
98	Imaging diamagnetic susceptibility of collagen in hepatic fibrosis using susceptibility tensor imaging. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 83, 1322-1330	4.4	6
97	Probing demyelination and remyelination of the cuprizone mouse model using multimodality MRI. <i>Journal of Magnetic Resonance Imaging</i> , <b>2019</b> , 50, 1852-1865	5.6	12
96	Multivariate MR biomarkers better predict cognitive dysfunction in mouse models of Alzheimer's disease. <i>Magnetic Resonance Imaging</i> , <b>2019</b> , 60, 52-67	3.3	13
95	Multi-atlas tool for automated segmentation of brain gray matter nuclei and quantification of their magnetic susceptibility. <i>NeuroImage</i> , <b>2019</b> , 191, 337-349	7.9	25
94	Imaging beta amyloid aggregation and iron accumulation in Alzheimer's disease using quantitative susceptibility mapping MRI. <i>NeuroImage</i> , <b>2019</b> , 191, 176-185	7.9	64
93	Imaging the Centromedian Thalamic Nucleus Using Quantitative Susceptibility Mapping. <i>Frontiers in Human Neuroscience</i> , <b>2019</b> , 13, 447	3.3	11
92	Multimodal integration of diffusion MRI for better characterization of tissue biology. <i>NMR in Biomedicine</i> , <b>2019</b> , 32, e3939	4.4	2
91	Learning-based single-step quantitative susceptibility mapping reconstruction without brain extraction. <i>NeuroImage</i> , <b>2019</b> , 202, 116064	7.9	24
90	Precise targeting of the globus pallidus internus with quantitative susceptibility mapping for deep brain stimulation surgery. <i>Journal of Neurosurgery</i> , <b>2019</b> , 1-7	3.2	9
89	Oscillation-specific nodal alterations in early to middle stages Parkinson's disease. <i>Translational Neurodegeneration</i> , <b>2019</b> , 8, 36	10.3	5
88	Quantitative susceptibility mapping of articular cartilage in patients with osteoarthritis at 3T. <i>Journal of Magnetic Resonance Imaging</i> , <b>2019</b> , 49, 1665-1675	5.6	12
87	Iron-related nigral degeneration influences functional topology mediated by striatal dysfunction in Parkinson's disease. <i>Neurobiology of Aging</i> , <b>2019</b> , 75, 83-97	5.6	22
86	Distribution of brain iron accrual in adolescence: Evidence from cross-sectional and longitudinal analysis. <i>Human Brain Mapping</i> , <b>2019</b> , 40, 1480-1495	5.9	19

85	Neonate and infant brain development from birth to 2 years assessed using MRI-based quantitative susceptibility mapping. <i>NeuroImage</i> , <b>2019</b> , 185, 349-360	7.9	13
84	Quantitative susceptibility mapping as a biomarker for evaluating white matter alterations in Parkinson's disease. <i>Brain Imaging and Behavior</i> , <b>2019</b> , 13, 220-231	4.1	19
83	Quantitative susceptibility mapping in combination with water-fat separation for simultaneous liver iron and fat fraction quantification. <i>European Radiology</i> , <b>2018</b> , 28, 3494-3504	8	21
82	Quantitative susceptibility mapping (QSM) as a means to monitor cerebral hematoma treatment. <i>Journal of Magnetic Resonance Imaging</i> , <b>2018</b> , 48, 907-915	5.6	7
81	White Matter Changes Related to Subconcussive Impact Frequency during a Single Season of High School Football. <i>American Journal of Neuroradiology</i> , <b>2018</b> , 39, 245-251	4.4	28
80	Longitudinal atlas for normative human brain development and aging over the lifespan using quantitative susceptibility mapping. <i>NeuroImage</i> , <b>2018</b> , 171, 176-189	7.9	51
79	MRI gradient-echo phase contrast of the brain at ultra-short TE with off-resonance saturation. <i>NeuroImage</i> , <b>2018</b> , 175, 1-11	7.9	9
78	Microstructural alterations of cortical and deep gray matter over a season of high school football revealed by diffusion kurtosis imaging. <i>Neurobiology of Disease</i> , <b>2018</b> , 119, 79-87	7.5	15
77	Plasticity in deep and superficial white matter: a DTI study in world class gymnasts. <i>Brain Structure and Function</i> , <b>2018</b> , 223, 1849-1862	4	12
76	Accelerating quantitative susceptibility imaging acquisition using compressed sensing. <i>Physics in Medicine and Biology</i> , <b>2018</b> , 63, 245002	3.8	6
75	Longitudinal data for magnetic susceptibility of normative human brain development and aging over the lifespan. <i>Data in Brief</i> , <b>2018</b> , 20, 623-631	1.2	13
74	Susceptibility tensor imaging (STI) of the brain. <i>NMR in Biomedicine</i> , <b>2017</b> , 30, e3540	4.4	39
73	Dentate nucleus iron deposition is a potential biomarker for tremor-dominant Parkinson's disease. <i>NMR in Biomedicine</i> , <b>2017</b> , 30, e3554	4.4	28
72	Magnetic susceptibility anisotropy outside the central nervous system. <i>NMR in Biomedicine</i> , <b>2017</b> , 30, e3544	4.4	17
71	Regionally progressive accumulation of iron in Parkinson's disease as measured by quantitative susceptibility mapping. <i>NMR in Biomedicine</i> , <b>2017</b> , 30, e3489	4.4	86
70	Joint 2D and 3D phase processing for quantitative susceptibility mapping: application to 2D echo-planar imaging. <i>NMR in Biomedicine</i> , <b>2017</b> , 30, e3501	4.4	26
69	Investigating magnetic susceptibility of human knee joint at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 78, 1933-1943	4.4	45
68	Exploring the origins of echo-time-dependent quantitative susceptibility mapping (QSM) measurements in healthy tissue and cerebral microbleeds. <i>NeuroImage</i> , <b>2017</b> , 149, 98-113	7.9	49

67	Differential microstructural and morphological abnormalities in mild cognitive impairment and Alzheimer's disease: Evidence from cortical and deep gray matter. <i>Human Brain Mapping</i> , <b>2017</b> , 38, 2495-2508	5.9	43
66	Joint eigenvector estimation from mutually anisotropic tensors improves susceptibility tensor imaging of the brain, kidney, and heart. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 77, 2331-2346	4.4	6
65	Temperature-activated ion channels in neural crest cells confer maternal fever-associated birth defects. <i>Science Signaling</i> , <b>2017</b> , 10,	8.8	35
64	Susceptibility tensor imaging and tractography of collagen fibrils in the articular cartilage. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 78, 1683-1690	4.4	23
63	Improved Neuroimaging Atlas of the Dentate Nucleus. <i>Cerebellum</i> , <b>2017</b> , 16, 951-956	4.3	12
62	Quantitative assessment of gadolinium deposition in dentate nucleus using quantitative susceptibility mapping. <i>Journal of Magnetic Resonance Imaging</i> , <b>2017</b> , 45, 1352-1358	5.6	25
61	Rapid multi-orientation quantitative susceptibility mapping. <i>NeuroImage</i> , <b>2016</b> , 125, 1131-1141	7.9	38
60	An interferon- $\beta$ -resistant and NLRP3 inflammasome-independent subtype of EAE with neuronal damage. <i>Nature Neuroscience</i> , <b>2016</b> , 19, 1599-1609	25.5	44
59	Magnetic susceptibility of brain iron is associated with childhood spatial IQ. <i>NeuroImage</i> , <b>2016</b> , 132, 167-174	7.4	33
58	Dynamic contrast-enhanced quantitative susceptibility mapping with ultrashort echo time MRI for evaluating renal function. <i>American Journal of Physiology - Renal Physiology</i> , <b>2016</b> , 310, F174-82	4.3	19
57	MRI tools for assessment of microstructure and nephron function of the kidney. <i>American Journal of Physiology - Renal Physiology</i> , <b>2016</b> , 311, F1109-F1124	4.3	21
56	Imaging whole-brain cytoarchitecture of mouse with MRI-based quantitative susceptibility mapping. <i>NeuroImage</i> , <b>2016</b> , 137, 107-115	7.9	36
55	Association between increased magnetic susceptibility of deep gray matter nuclei and decreased motor function in healthy adults. <i>NeuroImage</i> , <b>2015</b> , 105, 45-52	7.9	33
54	Susceptibility-weighted imaging and quantitative susceptibility mapping in the brain. <i>Journal of Magnetic Resonance Imaging</i> , <b>2015</b> , 42, 23-41	5.6	288
53	Quantitative Susceptibility Mapping at 3 T and 1.5 T: Evaluation of Consistency and Reproducibility. <i>Investigative Radiology</i> , <b>2015</b> , 50, 522-30	10.1	42
52	Magnetic susceptibility anisotropy of myocardium imaged by cardiovascular magnetic resonance reflects the anisotropy of myocardial filament helix polypeptide bonds. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2015</b> , 17, 60	6.9	29
51	Region-specific disturbed iron distribution in early idiopathic Parkinson's disease measured by quantitative susceptibility mapping. <i>Human Brain Mapping</i> , <b>2015</b> , 36, 4407-20	5.9	126
50	Susceptibility tensor imaging of the kidney and its microstructural underpinnings. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 73, 1270-81	4.4	43

49	Streaking artifact reduction for quantitative susceptibility mapping of sources with large dynamic range. <i>NMR in Biomedicine</i> , <b>2015</b> , 28, 1294-303	4.4	109
48	Quantitative Susceptibility Mapping: Contrast Mechanisms and Clinical Applications. <i>Tomography</i> , <b>2015</b> , 1, 3-17	3.1	78
47	A method for estimating and removing streaking artifacts in quantitative susceptibility mapping. <i>NeuroImage</i> , <b>2015</b> , 108, 111-22	7.9	167
46	Radioprotection of the brain white matter by Mn(III) n-Butoxyethylpyridylporphyrin-based superoxide dismutase mimic MnTnBuOE-2-PyP5+. <i>Molecular Cancer Therapeutics</i> , <b>2015</b> , 14, 70-9	6.1	55
45	Feasibility of Imaging Tissue Electrical Conductivity by Switching Field Gradients with MRI. <i>Tomography</i> , <b>2015</b> , 1, 125-135	3.1	8
44	Quantitative magnetic susceptibility of the developing mouse brain reveals microstructural changes in the white matter. <i>NeuroImage</i> , <b>2014</b> , 88, 134-42	7.9	37
43	Simultaneous imaging of in vivo conductivity and susceptibility. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 71, 1144-50	4.4	32
42	Differential developmental trajectories of magnetic susceptibility in human brain gray and white matter over the lifespan. <i>Human Brain Mapping</i> , <b>2014</b> , 35, 2698-713	5.9	154
41	Prenatal alcohol exposure reduces magnetic susceptibility contrast and anisotropy in the white matter of mouse brains. <i>NeuroImage</i> , <b>2014</b> , 102 Pt 2, 748-55	7.9	25
40	The Alzheimer structural connectome: changes in cortical network topology with increased amyloid plaque burden. <i>Radiology</i> , <b>2014</b> , 273, 175-84	20.5	52
39	Dynamic and inherent B0 correction for DTI using stimulated echo spiral imaging. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 71, 1044-53	4.4	5
38	Microstructural origins of gadolinium-enhanced susceptibility contrast and anisotropy. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 72, 1702-11	4.4	16
37	Susceptibility map-weighted imaging (SMWI) for neuroimaging. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 72, 337-46	4.4	32
36	Integrated Laplacian-based phase unwrapping and background phase removal for quantitative susceptibility mapping. <i>NMR in Biomedicine</i> , <b>2014</b> , 27, 219-27	4.4	182
35	Effects of chronic mild traumatic brain injury on white matter integrity in Iraq and Afghanistan war veterans. <i>Human Brain Mapping</i> , <b>2013</b> , 34, 2986-99	5.9	89
34	No association of ZNF804A rs1344706 with white matter integrity in schizophrenia: a tract-based spatial statistics study. <i>Neuroscience Letters</i> , <b>2013</b> , 532, 64-9	3.3	18
33	Imaging neural architecture of the brain based on its multipole magnetic response. <i>NeuroImage</i> , <b>2013</b> , 67, 193-202	7.9	24
32	Protective astrogenesis from the SVZ niche after injury is controlled by Notch modulator Thbs4. <i>Nature</i> , <b>2013</b> , 497, 369-73	50.4	190

31	Quantitative susceptibility mapping of kidney inflammation and fibrosis in type 1 angiotensin receptor-deficient mice. <i>NMR in Biomedicine</i> , <b>2013</b> , 26, 1853-63	4.4	37
30	Probing white-matter microstructure with higher-order diffusion tensors and susceptibility tensor MRI. <i>Frontiers in Integrative Neuroscience</i> , <b>2013</b> , 7, 11	3.2	15
29	Comparison of Magnetic Susceptibility Tensor and Diffusion Tensor of the Brain. <i>Journal of Neuroscience and Neuroengineering</i> , <b>2013</b> , 2, 431-440		14
28	Whole brain susceptibility mapping using compressed sensing. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 67, 137-47	4.4	256
27	3D fiber tractography with susceptibility tensor imaging. <i>NeuroImage</i> , <b>2012</b> , 59, 1290-8	7.9	76
26	Association of the ZNF804A gene polymorphism rs1344706 with white matter density changes in Chinese schizophrenia. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , <b>2012</b> , 36, 122-7	5.5	27
25	The effect of DISC1 on regional gray matter density of schizophrenia in Han Chinese population. <i>Neuroscience Letters</i> , <b>2012</b> , 517, 21-4	3.3	12
24	Fast and tissue-optimized mapping of magnetic susceptibility and T2* with multi-echo and multi-shot spirals. <i>NeuroImage</i> , <b>2012</b> , 59, 297-305	7.9	108
23	Magnetic susceptibility anisotropy of human brain in vivo and its molecular underpinnings. <i>NeuroImage</i> , <b>2012</b> , 59, 2088-97	7.9	162
22	High-field (9.4 T) MRI of brain dysmyelination by quantitative mapping of magnetic susceptibility. <i>NeuroImage</i> , <b>2011</b> , 56, 930-8	7.9	175
21	Quantitative susceptibility mapping of human brain reflects spatial variation in tissue composition. <i>NeuroImage</i> , <b>2011</b> , 55, 1645-56	7.9	374
20	Parallel reconstruction using null operations. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 66, 1241-53	4.4	36
19	Correlation of apparent diffusion coefficient and fractional anisotropy values in the developing infant brain. <i>American Journal of Roentgenology</i> , <b>2010</b> , 195, W456-62	5.4	36
18	Generalized Diffusion Tensor Imaging (GDTI): A Method for Characterizing and Imaging Diffusion Anisotropy Caused by Non-Gaussian Diffusion. <i>Israel Journal of Chemistry</i> , <b>2010</b> , 43, 145-154	3.4	15
17	Auto-calibrated parallel imaging reconstruction for arbitrary trajectories using k-space sparse matrices (kSPA). <i>IEEE Transactions on Medical Imaging</i> , <b>2010</b> , 29, 950-9	11.7	2
16	In vivo generalized diffusion tensor imaging (GDTI) using higher-order tensors (HOT). <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 63, 243-52	4.4	23
15	Susceptibility tensor imaging. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 63, 1471-7	4.4	258
14	Prefrontal plasticity and stress inoculation-induced resilience. <i>Developmental Neuroscience</i> , <b>2009</b> , 31, 293-9	2.2	60



13	Parallel spectroscopic imaging reconstruction with arbitrary trajectories using k-space sparse matrices. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 61, 267-72	4.4	16
12	Advances in magnetic resonance neuroimaging. <i>Neurologic Clinics</i> , <b>2009</b> , 27, 1-19, xiii	4.5	24
11	Single-step nonlinear diffusion tensor estimation in the presence of microscopic and macroscopic motion. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 59, 1138-50	4.4	39
10	Sliding-window sensitivity encoding (SENSE) calibration for reducing noise in functional MRI (fMRI). <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 60, 1090-103	4.4	5
9	Augmented generalized SENSE reconstruction to correct for rigid body motion. <i>Magnetic Resonance in Medicine</i> , <b>2007</b> , 57, 90-102	4.4	77
8	Parallel imaging reconstruction for arbitrary trajectories using k-space sparse matrices (kSPA). <i>Magnetic Resonance in Medicine</i> , <b>2007</b> , 58, 1171-81	4.4	33
7	Parallel-Imaging Reconstruction of Arbitrary-k-Space-Sampling Data <b>2007</b> , 71-90		
6	Foundations of advanced magnetic resonance imaging. <i>NeuroRx</i> , <b>2005</b> , 2, 167-96		67
5	Limitations of apparent diffusion coefficient-based models in characterizing non-gaussian diffusion. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 419-28	4.4	26
4	Simultaneous phase correction and SENSE reconstruction for navigated multi-shot DWI with non-cartesian k-space sampling. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 1412-22	4.4	78
3	Foundations of advanced magnetic resonance imaging. <i>Neurotherapeutics</i> , <b>2005</b> , 2, 167-196	6.4	1
2	Characterizing non-Gaussian diffusion by using generalized diffusion tensors. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 51, 924-37	4.4	206
1	Self-navigated interleaved spiral (SNAILS): application to high-resolution diffusion tensor imaging. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 52, 1388-96	4.4	188