

Jiani Hu

List of Publications by Year in descending order

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107
papers

2,985
citations

218677

26
h-index

206112

48
g-index

111
all docs

111
docs citations

111
times ranked

4906
citing authors

#	ARTICLE	IF	CITATIONS
1	Susceptibility-weighted imaging to visualize blood products and improve tumor contrast in the study of brain masses. <i>Journal of Magnetic Resonance Imaging</i> , 2006, 24, 41-51.	3.4	184
2	Investigation of neural progenitor cell induced angiogenesis after embolic stroke in rat using MRI. <i>NeuroImage</i> , 2005, 28, 698-707.	4.2	151
3	Enzyme-Sensitive and Amphiphilic PEGylated Dendrimer-Paclitaxel Prodrug-Based Nanoparticles for Enhanced Stability and Anticancer Efficacy. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 6865-6877.	8.0	148
4	Enzyme-responsive peptide dendrimer-gemcitabine conjugate as a controlled-release drug delivery vehicle with enhanced antitumor efficacy. <i>Acta Biomaterialia</i> , 2017, 55, 153-162.	8.3	127
5	Susceptibility-weighted imaging: current status and future directions. <i>NMR in Biomedicine</i> , 2017, 30, e3552.	2.8	121
6	The Paravascular Pathway for Brain Waste Clearance: Current Understanding, Significance and Controversy. <i>Frontiers in Neuroanatomy</i> , 2017, 11, 101.	1.7	120
7	MicroRNA-146a Mimics Reduce the Peripheral Neuropathy in Type 2 Diabetic Mice. <i>Diabetes</i> , 2017, 66, 3111-3121.	0.6	110
8	A single-center, retrospective study of COVID-19 features in children: a descriptive investigation. <i>BMC Medicine</i> , 2020, 18, 123.	5.5	101
9	MR susceptibility weighted imaging (SWI) complements conventional contrast enhanced T1 weighted MRI in characterizing brain abnormalities of Sturge-Weber Syndrome. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 28, 300-307.	3.4	89
10	In vivo measurement of tissue damage, oxygen saturation changes and blood flow changes after experimental traumatic brain injury in rats using susceptibility weighted imaging. <i>Magnetic Resonance Imaging</i> , 2007, 25, 219-227.	1.8	82
11	Characterization of Breast Tumors Using Diffusion Kurtosis Imaging (DKI). <i>PLoS ONE</i> , 2014, 9, e113240.	2.5	62
12	Spectral simplification for resolved glutamate and glutamine measurement using a standard STEAM sequence with optimized timing parameters at 3, 4, 4.7, 7, and 9.4T. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 236-244.	3.0	59
13	Cortical calcification in sturge-Weber syndrome on MRI-SWI: Relation to brain perfusion status and seizure severity. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 34, 791-798.	3.4	57
14	Feasibility of high temporal resolution breast DCE-MRI using compressed sensing theory. <i>Medical Physics</i> , 2010, 37, 4971-4981.	3.0	55
15	MR Lymphography of Lymphatic Vessels in Lower Extremity with Gynecologic Oncology-Related Lymphedema. <i>PLoS ONE</i> , 2012, 7, e50319.	2.5	46
16	Connectome-Based Biomarkers Predict Subclinical Depression and Identify Abnormal Brain Connections With the Lateral Habenula and Thalamus. <i>Frontiers in Psychiatry</i> , 2019, 10, 371.	2.6	43
17	EGFL9 promotes breast cancer metastasis by inducing cMET activation and metabolic reprogramming. <i>Nature Communications</i> , 2019, 10, 5033.	12.8	42
18	Simultaneous detection of resolved glutamate, glutamine, and γ -aminobutyric acid at 4T. <i>Journal of Magnetic Resonance</i> , 2007, 185, 204-213.	2.1	41

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19	Comparison of chemical shift-encoded water-fat MRI and MR spectroscopy in quantification of marrow fat in postmenopausal females. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 66-73.	3.4	41
20	Improving detection of siderotic nodules in cirrhotic liver with a multi-breathhold susceptibility-weighted imaging technique. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 34, 318-325.	3.4	40
21	Ablation of the microRNA-17 cluster in neural stem cells diminishes adult hippocampal neurogenesis and cognitive function. <i>FASEB Journal</i> , 2019, 33, 5257-5267.	0.5	36
22	Altered Resting-State Connectivity in College Students with Nonclinical Depressive Symptoms. <i>PLoS ONE</i> , 2014, 9, e114603.	2.5	36
23	FAT4 functions as a tumor suppressor in triple-negative breast cancer. <i>Tumor Biology</i> , 2016, 37, 16337-16343.	1.8	34
24	Waste Clearance in the Brain. <i>Frontiers in Neuroanatomy</i> , 2021, 15, 665803.	1.7	32
25	Identification of miRNomes associated with adult neurogenesis after stroke using Argonaute 2-based RNA sequencing. <i>RNA Biology</i> , 2017, 14, 488-499.	3.1	30
26	CDC45 overexpression is an Indicator of poor prognosis in patients with hepatocellular carcinoma (HCC). <i>BMC Cancer</i> , 2018, 18, 1187.	2.6	29
27	Early cardiac involvement in patients with acute COVID-19 infection identified by multiparametric cardiovascular magnetic resonance imaging. <i>European Heart Journal Cardiovascular Imaging</i> , 2021, 22, 844-851.	1.2	29
28	Susceptibility weighted imaging and quantitative susceptibility mapping of the cerebral vasculature using ferumoxytol. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 47, 621-633.	3.4	27
29	Magnetization transfer MRI: Application to treatment of middle cerebral artery occlusion in rat. <i>Journal of Magnetic Resonance Imaging</i> , 2001, 13, 178-184.	3.4	26
30	CT radiomic features for predicting resectability of oesophageal squamous cell carcinoma as given by feature analysis: a case control study. <i>Cancer Imaging</i> , 2019, 19, 66.	2.8	26
31	Determination of detection sensitivity for cerebral microbleeds using susceptibility-weighted imaging. <i>NMR in Biomedicine</i> , 2017, 30, e3551.	2.8	25
32	Peptide Dendron-Functionalized Mesoporous Silica Nanoparticle-Based Nanohybrid: Biocompatibility and Its Potential as Imaging Probe. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 860-870.	5.2	24
33	On the Utility of Quantitative Diffusion-Weighted MR Imaging as a Tool in Differentiation between Malignant and Benign Thyroid Nodules. <i>Academic Radiology</i> , 2014, 21, 355-363.	2.5	23
34	Clinical and metabolic correlates of cerebral calcifications in Sturge-Weber syndrome. <i>Developmental Medicine and Child Neurology</i> , 2017, 59, 952-958.	2.1	23
35	An interleaved sequence for simultaneous magnetic resonance angiography (MRA), susceptibility weighted imaging (SWI) and quantitative susceptibility mapping (QSM). <i>Magnetic Resonance Imaging</i> , 2018, 47, 1-6.	1.8	23
36	Improved Siderotic Nodule Detection in Cirrhosis with Susceptibility-Weighted Magnetic Resonance Imaging: A Prospective Study. <i>PLoS ONE</i> , 2012, 7, e36454.	2.5	22

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37	Evaluating Hemorrhage in Renal Cell Carcinoma Using Susceptibility Weighted Imaging. PLoS ONE, 2013, 8, e57691.	2.5	22
38	A high spatial resolution <i>in vivo</i> 1H magnetic resonance spectroscopic imaging technique for the human breast at. Medical Physics, 2009, 36, 4870-4877.	3.0	21
39	Feasibility and Preliminary Experience of Quantitative T2* Mapping at 3.0T for Detection and Assessment of Aggressiveness of Prostate Cancer. Academic Radiology, 2014, 21, 1020-1026.	2.5	21
40	Magnetic Resonance Imaging and Modeling of the Glymphatic System. Diagnostics, 2020, 10, 344.	2.6	21
41	A new index for assessing cerebral ventricular volume in idiopathic normal-pressure hydrocephalus: a comparison with Evans' index. Neuroradiology, 2020, 62, 661-667.	2.2	21
42	The Value of T2* in Differentiating Metastatic from Benign Axillary Lymph Nodes in Patients with Breast Cancer - A Preliminary In Vivo Study. PLoS ONE, 2014, 9, e84038.	2.5	21
43	A high spatial resolution 1H magnetic resonance spectroscopic imaging technique for breast cancer with a short echo time. Magnetic Resonance Imaging, 2008, 26, 360-366.	1.8	20
44	Glutamate is down-regulated and tinnitus loudness-levels decreased following rTMS over auditory cortex of the left hemisphere: A prospective randomized single-blinded sham-controlled cross-over study. Hearing Research, 2018, 358, 59-73.	2.0	20
45	Sentinel lymph node detection using magnetic resonance lymphography with conventional gadolinium contrast agent in breast cancer: a preliminary clinical study. BMC Cancer, 2015, 15, 213.	2.6	19
46	Efficient Segmentation of a Breast in B-Mode Ultrasound Tomography Using Three-Dimensional GrabCut (GC3D). Sensors, 2017, 17, 1827.	3.8	19
47	Two-Dimensional Proton Chemical-Shift Imaging of Human Muscle Metabolites. Journal of Magnetic Resonance, 1997, 126, 187-192.	2.1	18
48	A large-scale measurement of dielectric properties of normal and malignant colorectal tissues obtained from cancer surgeries at Larmor frequencies. Medical Physics, 2016, 43, 5991-5997.	3.0	18
49	Fibrosis quantification in Hypertensive Heart Disease with LVH and Non-LVH: Findings from T1 mapping and Contrast-free Cardiac Diffusion-weighted imaging. Scientific Reports, 2017, 7, 559.	3.3	18
50	Imaging Lymphatic System in Breast Cancer Patients with Magnetic Resonance Lymphangiography. PLoS ONE, 2013, 8, e69701.	2.5	17
51	T2* mapping at 3.0T MRI for differentiation of papillary thyroid carcinoma from benign thyroid nodules. Journal of Magnetic Resonance Imaging, 2016, 43, 956-961.	3.4	17
52	Quantification of liver iron concentration using the apparent susceptibility of hepatic vessels. Quantitative Imaging in Medicine and Surgery, 2018, 8, 123-134.	2.0	17
53	Subvoxel vascular imaging of the midbrain using USPIO-Enhanced MRI. NeuroImage, 2020, 220, 117106.	4.2	17
54	Myocardial extracellular volume fraction radiomics analysis for differentiation of reversible versus irreversible myocardial damage and prediction of left ventricular adverse remodeling after ST-elevation myocardial infarction. European Radiology, 2021, 31, 504-514.	4.5	17

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55	Application of contrast-enhanced CT radiomics in prediction of early recurrence of locally advanced oesophageal squamous cell carcinoma after trimodal therapy. <i>Cancer Imaging</i> , 2021, 21, 38.	2.8	17
56	Alteration of spontaneous neuronal activity in young adults with non-clinical depressive symptoms. <i>Psychiatry Research - Neuroimaging</i> , 2015, 233, 36-42.	1.8	16
57	Diffusion-weighted imaging in relation to morphology on dynamic contrast enhancement MRI: the diagnostic value of characterizing non-puerperal mastitis. <i>European Radiology</i> , 2018, 28, 992-999.	4.5	16
58	Non-contrast MRI for breast screening: preliminary study on detectability of benign and malignant lesions in women with dense breasts. <i>Breast Cancer Research and Treatment</i> , 2019, 177, 629-639.	2.5	16
59	Fangchinoline exerts anticancer effects on colorectal cancer by inducing autophagy via regulation AMPK/mTOR/ULK1 pathway. <i>Biochemical Pharmacology</i> , 2021, 186, 114475.	4.4	16
60	Mapping Brain Metabolites Using a Double Echo-Filter Metabolite Imaging (DEFMI) Technique. <i>Journal of Magnetic Resonance</i> , 1999, 140, 363-370.	2.1	15
61	An improved 1H magnetic resonance spectroscopic imaging technique for the human breast: preliminary results. <i>Magnetic Resonance Imaging</i> , 2005, 23, 571-576.	1.8	15
62	Quantitative diffusion-weighted magnetic resonance imaging in the assessment of myocardial fibrosis in hypertrophic cardiomyopathy compared with T1 mapping. <i>International Journal of Cardiovascular Imaging</i> , 2016, 32, 1289-1297.	1.5	15
63	Susceptibility-Weighted Imaging for the Noncontrast Evaluation of Hepatocellular Carcinoma: A Prospective Study with Histopathologic Correlation. <i>PLoS ONE</i> , 2014, 9, e98303.	2.5	14
64	Imaging increased glutamate in children with Sturge-Weber syndrome: Association with epilepsy severity. <i>Epilepsy Research</i> , 2016, 122, 66-72.	1.6	14
65	Myocardial fibrosis evaluated by diffusion-weighted imaging and its relationship to 3D contractile function in patients with hypertrophic cardiomyopathy. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 1139-1146.	3.4	14
66	Diagnostic performance of intravoxel incoherent motion diffusion-weighted imaging in the assessment of the dynamic status of myocardial perfusion. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 1602-1609.	3.4	14
67	Preliminary Study of MR Diffusion Tensor Imaging of the Liver for the Diagnosis of Hepatocellular Carcinoma. <i>PLoS ONE</i> , 2015, 10, e0135568.	2.5	14
68	Whole-tumour histogram analysis of pharmacokinetic parameters from dynamic contrast-enhanced MRI in resectable oesophageal squamous cell carcinoma can predict T-stage and regional lymph node metastasis. <i>European Journal of Radiology</i> , 2019, 112, 112-120.	2.6	13
69	Detecting sub-voxel microvasculature with USPIO-enhanced susceptibility-weighted MRI at 7T. <i>Magnetic Resonance Imaging</i> , 2020, 67, 90-100.	1.8	13
70	Noninvasive evaluation of early diabetic nephropathy using diffusion kurtosis imaging: an experimental study. <i>European Radiology</i> , 2021, 31, 2281-2288.	4.5	13
71	Systematic analyses of key genes and pathways in the development of invasive breast cancer. <i>Gene</i> , 2016, 593, 1-12.	2.2	12
72	IL-6 Triggers the Migration and Invasion of Oestrogen Receptor-Negative Breast Cancer Cells via Regulation of Hippo Pathways. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2018, 123, 549-557.	2.5	12

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73	MRI and MRS of Human Brain Tumors. <i>Methods in Molecular Biology</i> , 2009, 520, 297-314.	0.9	12
74	Preliminary Study of MR Diffusion Tensor Imaging of Pancreas for the Diagnosis of Acute Pancreatitis. <i>PLoS ONE</i> , 2016, 11, e0160115.	2.5	12
75	Prediction of nuclear grade of clear cell renal cell carcinoma with MRI: intratumoral susceptibility signal intensity versus necrosis. <i>Acta Radiologica</i> , 2014, 55, 378-384.	1.1	11
76	Orientational dependence of trimethyl ammonium signal in human muscles by 1H magnetic resonance spectroscopic imaging. <i>Magnetic Resonance Imaging</i> , 2005, 23, 97-104.	1.8	10
77	The Blood Oxygenation T ₂ * Values of Resectable Esophageal Squamous Cell Carcinomas as Measured by 3T Magnetic Resonance Imaging: Association with Tumor Stage. <i>Korean Journal of Radiology</i> , 2017, 18, 674.	3.4	10
78	Significant differences in proton trimethyl ammonium signals between human gastrocnemius and soleus muscle. <i>Journal of Magnetic Resonance Imaging</i> , 2004, 19, 617-622.	3.4	9
79	Thickness of soft tissue of lower extremities measured with magnetic resonance imaging as a new indicator for staging unilateral secondary lower extremity lymphedema. <i>Acta Radiologica</i> , 2015, 56, 1016-1024.	1.1	9
80	T2* mapping combined with conventional T2-weighted image for prostate cancer detection at 3.0T MRI: a multi-observer study. <i>Acta Radiologica</i> , 2017, 58, 114-120.	1.1	9
81	The capability of detecting small vessels beyond the conventional MRI sensitivity using iron-based contrast agent enhanced susceptibility weighted imaging. <i>NMR in Biomedicine</i> , 2020, 33, e4256.	2.8	9
82	High spatial resolution in vivo 2D 1H magnetic resonance spectroscopic imaging of human muscles with a band-selective technique. <i>Magnetic Resonance Imaging</i> , 2001, 19, 1091-1096.	1.8	8
83	Validity of soft-tissue thickness of calf measured using MRI for assessing unilateral lower extremity lymphoedema secondary to cervical and endometrial cancer treatments. <i>Clinical Radiology</i> , 2014, 69, 1287-1294.	1.1	8
84	The apparent diffusion coefficient is strongly correlated with extracellular volume, a measure of myocardial fibrosis, and subclinical cardiomyopathy in patients with systemic lupus erythematosus. <i>Acta Radiologica</i> , 2018, 59, 287-295.	1.1	8
85	Spectral pattern of total creatine and trimethyl ammonium in multiple sclerosis. <i>Magnetic Resonance Imaging</i> , 2004, 22, 427-429.	1.8	7
86	In Ovo Monitoring of Smooth Muscle Fiber Development in the Chick Embryo: Diffusion Tensor Imaging with Histologic Correlation. <i>PLoS ONE</i> , 2012, 7, e34009.	2.5	7
87	Comparison of T ₂ * mapping with diffusion-weighted imaging in the characterization of low-grade vs intermediate-grade and high-grade prostate cancer. <i>British Journal of Radiology</i> , 2016, 89, 20151076.	2.2	7
88	A pilot evaluation of magnetic resonance imaging characteristics seen with solid papillary carcinomas of the breast in 4 patients. <i>BMC Cancer</i> , 2017, 17, 525.	2.6	7
89	The feasibility of differentiating colorectal cancer from normal and inflammatory thickening colon wall using CT texture analysis. <i>Scientific Reports</i> , 2020, 10, 6346.	3.3	7
90	All Central Nervous System Neuro- and Vascular-Communication Channels Are Surrounded With Cerebrospinal Fluid. <i>Frontiers in Neurology</i> , 2021, 12, 614636.	2.4	7

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91	Robustness and reproducibility of radiomics in T2 weighted images from magnetic resonance image guided linear accelerator in a phantom study. <i>Physica Medica</i> , 2022, 96, 130-139.	0.7	7
92	Histogram Analysis of Native T ₁ Mapping and Its Relationship to Left Ventricular Late Gadolinium Enhancement, Hypertrophy, and Segmental Myocardial Mechanics in Patients With Hypertrophic Cardiomyopathy. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 668-677.	3.4	6
93	Automatic Segmentation of Ultrasound Tomography Image. <i>BioMed Research International</i> , 2017, 2017, 1-8.	1.9	5
94	BOLD cardiac MRI for differentiating reversible and irreversible myocardial damage in ST segment elevation myocardial infarction. <i>European Radiology</i> , 2019, 29, 951-962.	4.5	5
95	A radiomics model of liver CT to predict risk of hepatic encephalopathy secondary to hepatitis B related cirrhosis. <i>European Journal of Radiology</i> , 2020, 130, 109201.	2.6	5
96	Feasibility of in ovo diffusion tractography in the chick embryo using a dual-cooling technique. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 36, 993-1001.	3.4	4
97	Short- and midterm reproducibility of marrow fat measurements using mDixon imaging in healthy postmenopausal women. <i>Skeletal Radiology</i> , 2016, 45, 1385-1390.	2.0	4
98	Texture Analysis of Native T ₁ Images as a Novel Method for Noninvasive Assessment of Uremic Cardiomyopathy. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 54, 290-300.	3.4	4
99	Assessment of Intratumoral Micromorphology for Patients with Clear Cell Renal Cell Carcinoma Using Susceptibility-Weighted Imaging. <i>PLoS ONE</i> , 2013, 8, e65866.	2.5	4
100	The role of the parenchymal vascular system in cerebrospinal fluid tracer clearance. <i>European Radiology</i> , 2023, 33, 656-665.	4.5	4
101	Oxygenation-sensitive cardiovascular magnetic resonance in hypertensive heart disease with left ventricular myocardial hypertrophy and non-left ventricular myocardial hypertrophy: Insight from altered mechanics and cardiac BOLD imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 1297-1306.	3.4	3
102	Do mergers and acquisitions in china create value to acquiring firms?. <i>Corporate Ownership and Control</i> , 2015, 12, 117-140.	1.0	3
103	A mathematical model for predicting intracranial pressure based on noninvasively acquired PC-MRI parameters in communicating hydrocephalus. <i>Journal of Clinical Monitoring and Computing</i> , 2021, 35, 1325-1332.	1.6	2
104	Feasibility of similarity coefficient map in improving quality of magnetic resonance images of spleen. , 2013, , .		1
105	Liver lobe-based magnetic resonance diffusion-weighted imaging using multiple b values in patients with hepatitis B-related liver cirrhosis: association with the liver disease severity according to the Child-Pugh class. <i>Clinics</i> , 2015, 70, 486-492.	1.5	0
106	Diagnostic Utility of the Simplified Perfusion Fraction for Identifying Myocardial Injury in Patients With Reperfused ST-segment Elevation Myocardial Infarction. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, 516-526.	3.4	0
107	Left ventricular thrombus after acute ST-segment elevation myocardial infarction: multi-parametric cardiac magnetic resonance imaging with long-term outcomes. <i>International Journal of Cardiovascular Imaging</i> , 0, , 1.	0.6	0