Xiaoping Zhu

List of Publications by Year
in descending order

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48 papers	2,669 citations	201674 27 h-index	223800 46 g-index
50 all docs	50 docs citations	50 times ranked	3371 citing authors

#	Article	IF	Citations
1	Comparison of automated and manual MRI volumetry of hippocampus in normal aging and dementia. Journal of Magnetic Resonance Imaging, 2002, 16, 305-310.	3.4	198
2	Comprehensive processing, display and analysis forin vivo MR spectroscopic imaging. NMR in Biomedicine, 2006, 19, 492-503.	2.8	186
3	Higher atrophy rate of entorhinal cortex than hippocampus in AD. Neurology, 2004, 62, 422-427.	1.1	182
4	Improved 3D quantitative mapping of blood volume and endothelial permeability in brain tumors. Journal of Magnetic Resonance Imaging, 2000, 12, 347-357.	3.4	171
5	Atrophy rates of entorhinal cortex in AD and normal aging. Neurology, 2003, 60, 481-486.	1.1	165
6	Arterial spin labeling MRI study of age and gender effects on brain perfusion hemodynamics. Magnetic Resonance in Medicine, 2012, 68, 912-922.	3.0	156
7	Quantification of endothelial permeability, leakage space, and blood volume in brain tumors using combined T1 and T2* contrast-enhanced dynamic MR imaging. Journal of Magnetic Resonance Imaging, 2000, 11, 575-585.	3.4	147
8	Reproducibility of quantitative dynamic contrast-enhanced MRI in newly presenting glioma. British Journal of Radiology, 2003, 76, 153-162.	2.2	126
9	Effects of subcortical ischemic vascular dementia and AD on entorhinal cortex and hippocampus. Neurology, 2002, 58, 1635-1641.	1.1	122
10	Abnormalities of the contrast re-circulation phase in cerebral tumors demonstrated using dynamic susceptibility contrast-enhanced imaging: A possible marker of vascular tortuosity. Journal of Magnetic Resonance Imaging, 2000, 11, 103-113.	3.4	84
11	Human Brain: Reliability and Reproducibility of Pulsed Arterial Spin-labeling Perfusion MR Imaging. Radiology, 2005, 234, 909-916.	7.3	84
12	Breath-hold perfusion and permeability mapping of hepatic malignancies using magnetic resonance imaging and a first-pass leakage profile model. NMR in Biomedicine, 2002, 15, 164-173.	2.8	81
13	MR imaging of the intervertebral disc: a quantitative study. British Journal of Radiology, 1985, 58, 705-709.	2.2	77
14	Effects of Alzheimer Disease on Fronto-parietal Brain N-acetyl Aspartate and Myo-Inositol Using Magnetic Resonance Spectroscopic Imaging. Alzheimer Disease and Associated Disorders, 2006, 20, 77-85.	1.3	63
15	Simultaneous mapping of blood volume and endothelial permeability surface area product in gliomas using iterative analysis of first-pass dynamic contrast enhanced MRI data. British Journal of Radiology, 2003, 76, 39-51.	2.2	62
16	Inflammation and vascular permeability correlate with growth in sporadic vestibular schwannoma. Neuro-Oncology, 2019, 21, 314-325.	1.2	59
17	Improved perfusion-weighted MRI by a novel double inversion with proximal labeling of both tagged and control acquisitions. Magnetic Resonance in Medicine, 2003, 49, 307-314.	3.0	46
18	Four-phase single-capillary stepwise model for kinetics in arterial spin labeling MRI. Magnetic Resonance in Medicine, 2005, 53, 511-518.	3.0	45

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19	Reproducibility of T2* blood volume and vascular tortuosity maps in cerebral gliomas. Journal of Magnetic Resonance Imaging, 2001, 14, 510-516.	3.4	42
20	Kinetic assessment of breast tumors using high spatial resolution signal enhancement ratio (SER) imaging. Magnetic Resonance in Medicine, 2007, 58, 572-581.	3.0	42
21	Accuracy of Area Measurements Made from MR Images Compared with Computed Tomography. Journal of Computer Assisted Tomography, 1986, 10, 96-102.	0.9	41
22	Regional Myo-inositol Concentration in Mild Cognitive Impairment Using 1H Magnetic Resonance Spectroscopic Imaging. Alzheimer Disease and Associated Disorders, 2009, 23, 57-62.	1.3	41
23	Multicentre magnetic resonance texture analysis trial using reticulated foam test objects. Magnetic Resonance Imaging, 1999, 17, 1025-1031.	1.8	34
24	Spectral phase-corrected GRAPPA reconstruction of three-dimensional echo-planar spectroscopic imaging (3D-EPSI). Magnetic Resonance in Medicine, 2007, 57, 815-820.	3.0	33
25	Imaging of mild cognitive impairment and early dementia. British Journal of Radiology, 2007, 80, S109-S114.	2.2	32
26	An improved coverage and spatial resolutionâ€”using dual injection dynamic contrastâ€enhanced (ICEâ€ĐICE) MRI: A novel dynamic contrastâ€enhanced technique for cerebral tumors. Magnetic Resonance in Medicine, 2012, 68, 452-462.	3.0	30
27	Magnetic resonance (MR) cine imaging of the human heart. British Journal of Radiology, 1985, 58, 711-716.	2.2	29
28	Comparison of cerebral blood volume maps generated fromT2* andT1weighted MRI data in intra-axial cerebral tumours. British Journal of Radiology, 2007, 80, 161-168.	2.2	28
29	Vascular biomarkers derived from dynamic contrast-enhanced MRI predict response of vestibular schwannoma to antiangiogenic therapy in type 2 neurofibromatosis. Neuro-Oncology, 2016, 18, 275-282.	1.2	27
30	Magnetization transfer contrast (MTC) imaging of skeletal muscle at 0.26 Tesla â€” changes in signal intensity following exercise. British Journal of Radiology, 1992, 65, 39-43.	2.2	25
31	Detection of myocardial infarction in the mini-pig using NMR imaging. Magnetic Resonance in Medicine, 1987, 5, 201-216.	3.0	24
32	Improved Model-Based Magnetic Resonance Spectroscopic Imaging. IEEE Transactions on Medical Imaging, 2007, 26, 1305-1318.	8.9	23
33	The microenvironment in sporadic and neurofibromatosis type IIâ€“related vestibular schwannoma: the same tumor or different? A comparative imaging and neuropathology study. Journal of Neurosurgery, 2021, 134, 1419-1429.	1.6	23
34	Skin: MR imaging findings at middle field strength.. Radiology, 1996, 201, 868-872.	7.3	21
35	Semi-Quantitative Parameter Analysis of DCE-MRI Revisited: Monte-Carlo Simulation, Clinical Comparisons, and Clinical Validation of Measurement Errors in Patients with Type 2 Neurofibromatosis. PLoS ONE, 2014, 9, e90300.	2.5	21
36	Parametric mapping of scaled fitting error in dynamic susceptibility contrast enhanced MR perfusion imaging.. British Journal of Radiology, 2000, 73, 470-481.	2.2	18

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37	Magnetic resonance image synthesis using a flexible model. British Journal of Radiology, 1994, 67, 976-982.	2.2	13
38	Blood-brain barrier permeability of normal-appearing white matter in patients with vestibular schwannoma: A new hybrid approach for analysis of T ₁ -W DCE-MRI. Journal of Magnetic Resonance Imaging, 2017, 46, 79-93.	3.4	11
39	Lowâ€dose T1W DCEâ€MRI for early time points perfusion measurement in patients with intracranial tumors: A pilot study applying the microsphere model to measure absolute cerebral blood flow. Journal of Magnetic Resonance Imaging, 2018, 48, 543-557.	3.4	9
40	Magnetic resonance spectroscopic imaging reconstruction with deformable shape-intensity models. Magnetic Resonance in Medicine, 2003, 50, 474-482.	3.0	8
41	Robust analysis of short echo time1H MRSI of human brain. Magnetic Resonance in Medicine, 2006, 55, 706-711.	3.0	8
42	Detection of early changes in the post-radiosurgery vestibular schwannoma microenvironment using multinuclear MRI. Scientific Reports, 2021, 11, 15712.	3.3	8
43	The LEGATOS technique: A new tissueâ€validated dynamic contrastâ€enhanced MRI method for wholeâ€brain, highâ€spatial resolution parametric mapping. Magnetic Resonance in Medicine, 2021, 86, 2122-2136.	3.0	7
44	Surrogate vascular input function measurements from the superior sagittal sinus are repeatable and provide tissue-validated kinetic parameters in brain DCE-MRI. Scientific Reports, 2022, 12, .	3.3	6
45	Parameter estimation in arterial spin labeling MRI: Comparing the four phase model and the buxton model with fourier transform. , 2009, 2009, 4791-4.		2
46	A method for increasing the resolution of scanned projection radiography and other digital X-ray systems. British Journal of Radiology, 1986, 59, 365-371.	2.2	1
47	Regularized Inversion of Noisy, Incomplete MR Spectroscopic Imaging Data with Anatomical Prior. , 0, , .		1
48	Contrast-modified gradient echo imaging using rotary echo preparatory pulses. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1997, 5, 193-200.	2.0	0