

Iris Yuwen Zhou

List of Publications by Year in descending order

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55
papers

1,357
citations

257450

24
h-index

361022

35
g-index

55
all docs

55
docs citations

55
times ranked

1603
citing authors

#	ARTICLE	IF	CITATIONS
1	pH-sensitive MRI demarcates graded tissue acidification during acute stroke • pH specificity enhancement with magnetization transfer and relaxation-normalized amide proton transfer (APT) MRI. <i>NeuroImage</i> , 2016, 141, 242-249.	4.2	65
2	Quantitative chemical exchange saturation transfer (CEST) MRI of glioma using Image Downsampling Expedited Adaptive Least-squares (IDEAL) fitting. <i>Scientific Reports</i> , 2017, 7, 84.	3.3	65
3	In vivo evaluation of retinal and callosal projections in early postnatal development and plasticity using manganese-enhanced MRI and diffusion tensor imaging. <i>NeuroImage</i> , 2012, 59, 2274-2283.	4.2	57
4	A generalized ratiometric chemical exchange saturation transfer (CEST) MRI approach for mapping renal pH using iopamidol. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1553-1558.	3.0	57
5	In vivo retinotopic mapping of superior colliculus using manganese-enhanced magnetic resonance imaging. <i>NeuroImage</i> , 2011, 54, 389-395.	4.2	56
6	Brain resting-state functional MRI connectivity: Morphological foundation and plasticity. <i>NeuroImage</i> , 2014, 84, 1-10.	4.2	52
7	Dietary supplementation with n-3 fatty acids from weaning limits brain biochemistry and behavioural changes elicited by prenatal exposure to maternal inflammation in the mouse model. <i>Translational Psychiatry</i> , 2015, 5, e641-e641.	4.8	51
8	Quantitative chemical exchange saturation transfer (qCEST) MRI • omega plot analysis of RF•spillover•corrected inverse CEST ratio asymmetry for simultaneous determination of labile proton ratio and exchange rate. <i>NMR in Biomedicine</i> , 2015, 28, 376-383.	2.8	48
9	Functional MRI of postnatal visual development in normal and hypoxic•ischemic-injured superior colliculi. <i>NeuroImage</i> , 2010, 49, 2013-2020.	4.2	47
10	Determination of multipool contributions to endogenous amide proton transfer effects in global ischemia with high spectral resolution in vivo chemical exchange saturation transfer (CEST) MRI. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 645-652.	3.0	45
11	BOLD fMRI investigation of the rat auditory pathway and tonotopic organization. <i>NeuroImage</i> , 2012, 60, 1205-1211.	4.2	43
12	pH-sensitive amide proton transfer effect dominates the magnetization transfer asymmetry contrast during acute ischemia•quantification of multipool contribution to in vivo CEST MRI. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1602-1608.	3.0	43
13	MR Diffusion Tensor Imaging Detects Rapid Microstructural Changes in Amygdala and Hippocampus Following Fear Conditioning in Mice. <i>PLoS ONE</i> , 2013, 8, e51704.	2.5	40
14	BOLD responses in the superior colliculus and lateral geniculate nucleus of the rat viewing an apparent motion stimulus. <i>NeuroImage</i> , 2011, 58, 878-884.	4.2	35
15	A method for accurate pH mapping with chemical exchange saturation transfer (CEST) MRI. <i>Contrast Media and Molecular Imaging</i> , 2016, 11, 195-202.	0.8	35
16	BOLD Temporal Dynamics of Rat Superior Colliculus and Lateral Geniculate Nucleus following Short Duration Visual Stimulation. <i>PLoS ONE</i> , 2011, 6, e18914.	2.5	34
17	A theoretical analysis of chemical exchange saturation transfer echo planar imaging (CEST•EPI) steady state solution and the CEST sensitivity efficiency•based optimization approach. <i>Contrast Media and Molecular Imaging</i> , 2016, 11, 415-423.	0.8	33
18	Improving the reactivity of hydrazine-bearing MRI probes for in vivo imaging of lung fibrogenesis. <i>Chemical Science</i> , 2020, 11, 224-231.	7.4	33

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19	Organization of the intrinsic functional network in the cervical spinal cord: A resting state functional MRI study. <i>Neuroscience</i> , 2016, 336, 30-38.	2.3	32
20	pH imaging reveals worsened tissue acidification in diffusion kurtosis lesion than the kurtosis/diffusion lesion mismatch in an animal model of acute stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 3325-3333.	4.3	32
21	In vivo visuotopic brain mapping with manganese-enhanced MRI and resting-state functional connectivity MRI. <i>NeuroImage</i> , 2014, 90, 235-245.	4.2	30
22	The inferior colliculus is involved in deviant sound detection as revealed by BOLD fMRI. <i>NeuroImage</i> , 2014, 91, 220-227.	4.2	29
23	Advances in functional and molecular MRI technologies in chronic liver diseases. <i>Journal of Hepatology</i> , 2020, 73, 1241-1254.	3.7	27
24	High fidelity tonotopic mapping using swept source functional magnetic resonance imaging. <i>NeuroImage</i> , 2012, 61, 978-986.	4.2	26
25	Balanced steady-state free precession fMRI with intravascular susceptibility contrast agent. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 65-73.	3.0	25
26	JOURNAL CLUB: Evaluation of Diffusion Kurtosis Imaging of Stroke Lesion With Hemodynamic and Metabolic MRI in a Rodent Model of Acute Stroke. <i>American Journal of Roentgenology</i> , 2018, 210, 720-727.	2.2	24
27	Magnetic resonance spectroscopy reveals N-acetylaspartate reduction in hippocampus and cingulate cortex after fear conditioning. <i>Psychiatry Research - Neuroimaging</i> , 2012, 204, 178-183.	1.8	23
28	Structural and Functional Brain Remodeling during Pregnancy with Diffusion Tensor MRI and Resting-State Functional MRI. <i>PLoS ONE</i> , 2015, 10, e0144328.	2.5	22
29	Advanced MRI of Liver Fibrosis and Treatment Response in a Rat Model of Nonalcoholic Steatohepatitis. <i>Radiology</i> , 2020, 296, 67-75.	7.3	22
30	Metabolic changes in visual cortex of neonatal monocular enucleated rat: a proton magnetic resonance spectroscopy study. <i>International Journal of Developmental Neuroscience</i> , 2011, 29, 25-30.	1.6	21
31	Functional magnetic resonance imaging of sound pressure level encoding in the rat central auditory system. <i>NeuroImage</i> , 2013, 65, 119-126.	4.2	21
32	Comparison of image sensitivity between conventional tensor-based and fast diffusion kurtosis imaging protocols in a rodent model of acute ischemic stroke. <i>NMR in Biomedicine</i> , 2016, 29, 625-630.	2.8	19
33	Direct saturation-corrected chemical exchange saturation transfer MRI of glioma: Simplified decoupling of amide proton transfer and nuclear overhauser effect contrasts. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 2307-2314.	3.0	18
34	In vivo chromium-enhanced MRI of the retina. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1202-1210.	3.0	17
35	Noninvasive fMRI Investigation of Interaural Level Difference Processing in the Rat Auditory Subcortex. <i>PLoS ONE</i> , 2013, 8, e70706.	2.5	17
36	Effect of diffusion time on liver DWI: An experimental study of normal and fibrotic livers. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 1389-1396.	3.0	12

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37	Fast diffusion kurtosis imaging (DKI) with Inherent CORrelation-based Normalization (ICON) enhances automatic segmentation of heterogeneous diffusion MRI lesion in acute stroke. <i>NMR in Biomedicine</i> , 2016, 29, 1670-1677.	2.8	12
38	Progress toward quantitative in vivo chemical exchange saturation transfer (CEST) MRI. <i>Israel Journal of Chemistry</i> , 2017, 57, 809-824.	2.3	12
39	Tissue Characterization with Quantitative High-Resolution Magic Angle Spinning Chemical Exchange Saturation Transfer Z-Spectroscopy. <i>Analytical Chemistry</i> , 2016, 88, 10379-10383.	6.5	10
40	Longitudinal Assessments of Normal and Perilesional Tissues in Focal Brain Ischemia and Partial Optic Nerve Injury with Manganese-enhanced MRI. <i>Scientific Reports</i> , 2017, 7, 43124.	3.3	10
41	In vivo microscopic diffusional kurtosis imaging with symmetrized double diffusion encoding EPI. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 533-541.	3.0	10
42	Preliminary evaluation of dynamic glucose enhanced MRI of the human placenta during glucose tolerance test. <i>Quantitative Imaging in Medicine and Surgery</i> , 2019, 9, 1619-1627.	2.0	8
43	Dynamic contrast-enhanced magnetic resonance imaging of the lung reveals important pathobiology in idiopathic pulmonary fibrosis. <i>ERJ Open Research</i> , 2021, 7, 00907-2020.	2.6	8
44	Reduced transverse relaxation rate (RR2) for improved sensitivity in monitoring myocardial iron in thalassemia. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 33, 1510-1516.	3.4	7
45	Longitudinal metabolic changes in the hippocampus and thalamus of the maternal brain revealed by proton magnetic resonance spectroscopy. <i>Neuroscience Letters</i> , 2013, 553, 170-175.	2.1	7
46	Collagen-targeted molecular imaging in diffuse liver diseases. <i>Abdominal Radiology</i> , 2020, 45, 3545-3556.	2.1	7
47	In vivo manganese-enhanced MRI and diffusion tensor imaging of developing and impaired visual brains. , 2011, 2011, 7005-8.		4
48	In vivo MRI study of the visual system in normal, developing and injured rodent brains. , 2010, 2010, 5689-92.		2
49	Simultaneous spin-echo and gradient-echo BOLD measurements by dynamic MRS. <i>NMR in Biomedicine</i> , 2017, 30, e3745.	2.8	2
50	Functional MRI of postnatal visual development in normal rat superior colliculi. , 2009, 2009, 4436-9.		1
51	Resting-State fMRI Using Passband Balanced Steady-State Free Precession. <i>PLoS ONE</i> , 2014, 9, e91075.	2.5	1
52	Susceptibility weighted imaging of stroke brain in response to normobaric oxygen (NBO) therapy. , 2015, , .		0
53	Quantification of in vivo pH-weighted amide proton transfer (APT) MRI in acute ischemic stroke. , 2015, , .		0
54	Simplified correction of B_1 inhomogeneity for chemical exchange saturation transfer (CEST) MRI measurement with surface transceiver coil. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0

#	ARTICLE	IF	CITATIONS
55	Molecular Imaging of Fibrosis. , 2021, , 1447-1468.		0