Qiang Shen

List of Publications by Year
in descending order

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53	2,596	185998	189595
papers	citations	28 h-index	50 g-index

54	54	54	3010
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tau protein aggregation is associated with cellular senescence in the brain. Aging Cell, 2018, 17, e12840.	3.0	376
2	Regional Cerebral Blood Flow and BOLD Responses in Conscious and Anesthetized Rats under Basal and Hypercapnic Conditions: Implications for Functional MRI Studies. Journal of Cerebral Blood Flow and Metabolism, 2003, 23, 472-481.	2.4	242
3	Characterizing the diffusion/perfusion mismatch in experimental focal cerebral ischemia. Annals of Neurology, 2004, 55, 207-212.	2.8	135
4	Pixel-by-Pixel Spatiotemporal Progression of Focal Ischemia Derived Using Quantitative Perfusion and Diffusion Imaging. Journal of Cerebral Blood Flow and Metabolism, 2003, 23, 1479-1488.	2.4	119
5	Functional, Perfusion and Diffusion MRI of acute Focal Ischemic Brain Injury. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, 1265-1279.	2.4	102
6	Regional Cerebral Blood Flow and BOLD Responses in Conscious and Anesthetized Rats Under Basal and Hypercapnic Conditions: Implications for Functional MRI Studies. Journal of Cerebral Blood Flow and Metabolism, 2003, , 472-481.	2.4	97
7	Differences in Ischemic Lesion Evolution in Different Rat Strains Using Diffusion and Perfusion Imaging. Stroke, 2005, 36, 2000-2005.	1.0	89
8	Spatiotemporal dynamics of diffusional kurtosis, mean diffusivity and perfusion changes in experimental stroke. Brain Research, 2012, 1451, 100-109.	1.1	76
9	CBF, BOLD, CBV, and CMRO₂ fMRI signal temporal dynamics at 500â€msec resolution. Journal of Magnetic Resonance Imaging, 2008, 27, 599-606.	1.9	70
10	Methylene Blue Is Neuroprotective against Mild Traumatic Brain Injury. Journal of Neurotrauma, 2014, 31, 1063-1071.	1.7	66
11	Effects of Reperfusion on ADC and CBF Pixel-by-Pixel Dynamics in Stroke: Characterizing Tissue Fates using Quantitative Diffusion and Perfusion Imaging. Journal of Cerebral Blood Flow and Metabolism, 2004, 24, 280-290.	2.4	64
12	Dynamic Tracking of Acute Ischemic Tissue Fates Using Improved Unsupervised ISODATA Analysis of High-Resolution Quantitative Perfusion and Diffusion Data. Journal of Cerebral Blood Flow and Metabolism, 2004, 24, 887-897.	2.4	59
13	Hemodynamic and metabolic changes induced by cocaine in anesthetized rat observed with multimodal functional MRI. Psychopharmacology, 2006, 185, 479-486.	1.5	54
14	Cerebral blood flow MRI in mice using the cardiacâ€spinâ€labeling technique. Magnetic Resonance in Medicine, 2008, 60, 744-748.	1.9	54
15	Layerâ€specific anatomical, physiological and functional MRI of the retina. NMR in Biomedicine, 2008, 21, 978-996.	1.6	54
16	Characterizing Tissue Fate After Transient Cerebral Ischemia of Varying Duration Using Quantitative Diffusion and Perfusion Imaging. Stroke, 2007, 38, 1336-1344.	1.0	53
17	Multiparametric and Longitudinal MRI Characterization of Mild Traumatic Brain Injury in Rats. Journal of Neurotrauma, 2015, 32, 598-607.	1.7	52
18	Neuroprotective Efficacy of Methylene Blue in Ischemic Stroke: An MRI Study. PLoS ONE, 2013, 8, e79833.	1.1	52

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19	Spatiotemporal Characteristics of Postischemic Hyperperfusion with Respect to Changes in T1, T2, Diffusion, Angiography, and Bloodâ€“Brain Barrier Permeability. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 2076-2085.	2.4	49
20	Statistical Prediction of Tissue Fate in Acute Ischemic Brain Injury. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, 1336-1345.	2.4	48
21	Magnetic resonance imaging of tissue and vascular layers in the cat retina. Journal of Magnetic Resonance Imaging, 2006, 23, 465-472.	1.9	47
22	Artificial Neural Network Prediction of Ischemic Tissue Fate in Acute Stroke Imaging. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 1661-1670.	2.4	46
23	Spatiotemporal changes in blood-brain barrier permeability, cerebral blood flow, T2 and diffusion following mild traumatic brain injury. Brain Research, 2016, 1646, 53-61.	1.1	40
24	Methylene blue potentiates stimulus-evoked fMRI responses and cerebral oxygen consumption during normoxia and hypoxia. NeuroImage, 2013, 72, 237-242.	2.1	38
25	Blood Flow Magnetic Resonance Imaging of Retinal Degeneration. , 2009, 50, 1824.		33
26	Magnetic resonance imaging of bloodâ€“brain barrier permeability in ischemic stroke using diffusion-weighted arterial spin labeling in rats. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 2706-2715.	2.4	33
27	Cerebral angiography, blood flow and vascular reactivity in progressive hypertension. NeuroImage, 2015, 111, 329-337.	2.1	32
28	Perfusion and diffusion imaging in acute focal cerebral ischemia: Temporal vs. spatial resolution. Brain Research, 2005, 1043, 155-162.	1.1	31
29	The Effects of Methylene Blue on Autophagy and Apoptosis in MRI-Defined Normal Tissue, Ischemic Penumbra and Ischemic Core. PLoS ONE, 2015, 10, e0131929.	1.1	30
30	Quantitative prediction of acute ischemic tissue fate using support vector machine. Brain Research, 2011, 1405, 77-84.	1.1	29
31	Quantitative prediction of ischemic stroke tissue fate. NMR in Biomedicine, 2008, 21, 839-848.	1.6	25
32	The Effects of Perturbed Cerebral Blood Flow and Cerebrovascular Reactivity on Structural MRI and Behavioral Readouts in Mild Traumatic Brain Injury. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 1852-1861.	2.4	24
33	Probing ischemic tissue fate with BOLD fMRI of brief oxygen challenge. Brain Research, 2011, 1425, 132-141.	1.1	23
34	A Quantitative MRI Method for Imaging Blood-Brain Barrier Leakage in Experimental Traumatic Brain Injury. PLoS ONE, 2014, 9, e114173.	1.1	21
35	Manganese-Enhanced Magnetic Resonance Imaging of Traumatic Brain Injury. Journal of Neurotrauma, 2015, 32, 1001-1010.	1.7	20
36	Spatiotemporal changes in diffusion,T₂and susceptibility of white matter following mild traumatic brain injury. NMR in Biomedicine, 2016, 29, 896-903.	1.6	20

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37	Quantitative Cerebral Blood Flow Measurements Using MRI. Methods in Molecular Biology, 2014, 1135, 205-211.	0.4	20
38	Delayed Methylene Blue Improves Lesion Volume, Multi-Parametric Quantitative Magnetic Resonance Imaging Measurements, and Behavioral Outcome after Traumatic Brain Injury. Journal of Neurotrauma, 2016, 33, 194-202.	1.7	18
39	Methylene blue treatment delays progression of perfusionâ€“diffusion mismatch to infarct in permanent ischemic stroke. Brain Research, 2014, 1588, 144-149.	1.1	17
40	Ultra-high spatial resolution basal and evoked cerebral blood flow MRI of the rat brain. Brain Research, 2015, 1599, 126-136.	1.1	17
41	Normobaric Oxygen Worsens Outcome after a Moderate Traumatic Brain Injury. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 1137-1144.	2.4	17
42	Magnetic resonance imaging of cerebral blood flow in animal stroke models. Brain Circulation, 2016, 2, 20.	0.7	16
43	Relaxation time constants and apparent diffusion coefficients of rat retina at 7 Tesla. International Journal of Imaging Systems and Technology, 2010, 20, 126-130.	2.7	14
44	Background suppression in arterial spin labeling MRI with a separate neck labeling coil. NMR in Biomedicine, 2011, 24, 1111-1118.	1.6	14
45	Effects of stroke severity and treatment duration in normobaric hyperoxia treatment of ischemic stroke. Brain Research, 2016, 1635, 121-129.	1.1	11
46	Reduced cerebral blood flow in an Î±-synuclein transgenic mouse model of Parkinsonâ€™s disease. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 2441-2453.	2.4	10
47	Partial-volume effect on ischemic tissue-fate delineation using quantitative perfusion and diffusion imaging on a rat stroke model. Magnetic Resonance in Medicine, 2004, 52, 1328-1335.	1.9	9
48	Effects of Cerebral Ischemic and Reperfusion on T2â^—-Weighted MRI Responses to Brief Oxygen Challenge. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 169-175.	2.4	8
49	Incorporating ADC temporal profiles to predict ischemic tissue fate in acute stroke. Brain Research, 2012, 1458, 86-92.	1.1	7
50	T₂[*]-weighted fMRI time-to-peak of oxygen challenge in ischemic stroke. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 283-291.	2.4	6
51	Magnetic Resonance Imaging in Experimental Traumatic Brain Injury. Methods in Molecular Biology, 2016, 1462, 645-658.	0.4	3
52	Resting-State Functional Magnetic Resonance Imaging of Interhemispheric Functional Connectivity in Experimental Traumatic Brain Injury. Neurotrauma Reports, 2021, 2, 526-540.	0.5	2
53	Dynamic Contrast-Enhanced MRI for the Analysis of Blood-Brain Barrier Leakage in Traumatic Brain Injury. Neuromethods, 2018, , 271-282.	0.2	0