

Ruiliang Bai

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,215
citations

430874

18
h-index

377865

34
g-index

40
all docs

40
docs citations

40
times ranked

1868
citing authors

#	ARTICLE	IF	CITATIONS
1	The direction-dependence of apparent water exchange rate in human white matter. <i>NeuroImage</i> , 2022, 247, 118831.	4.2	3
2	2D probabilistic undersampling pattern optimization for MR image reconstruction. <i>Medical Image Analysis</i> , 2022, 77, 102346.	11.6	2
3	Short-Range Structural Connections Are More Severely Damaged in Early-Stage MS. <i>American Journal of Neuroradiology</i> , 2022, 43, 361-367.	2.4	4
4	Olfactory sensory experience regulates gliomagenesis via neuronal IGF1. <i>Nature</i> , 2022, 606, 550-556.	27.8	49
5	Consideration of transmembrane water exchange in pharmacokinetic model significantly improves the accuracy of DCE-MRI in estimating cellular density: A pilot study in glioblastoma multiforme. <i>Magnetic Resonance Letters</i> , 2022, 2, 243-254.	1.3	0
6	Abnormal brain functional and structural connectivity between the left supplementary motor area and inferior frontal gyrus in moyamoya disease. <i>BMC Neurology</i> , 2022, 22, 179.	1.8	4
7	Performance Comparison of Different Neuroimaging Methods for Predicting Upper Limb Motor Outcomes in Patients after Stroke. <i>Neural Plasticity</i> , 2022, 2022, 1-10.	2.2	2
8	An Ultrahigh-Field-Tailored ¹ H- ² Dual-Mode MRI Contrast Agent for High-Performance Vascular Imaging. <i>Advanced Materials</i> , 2021, 33, e2004917.	21.0	69
9	Reduction of higher-order occipital GABA and impaired visual perception in acute major depressive disorder. <i>Molecular Psychiatry</i> , 2021, 26, 6747-6755.	7.9	36
10	In Vivo Clonal Analysis Reveals Development Heterogeneity of Oligodendrocyte Precursor Cells Derived from Distinct Germinal Zones. <i>Advanced Science</i> , 2021, 8, e2102274.	11.2	9
11	Ensemble learning accurately predicts the potential benefits of thrombolytic therapy in acute ischemic stroke. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021, 11, 3978-3989.	2.0	4
12	Convolutional neural network for accelerating the computation of the extended Tofts model in dynamic contrast-enhanced magnetic resonance imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, 1898-1910.	3.4	17
13	Early stratification of radiotherapy response by activatable inflammation magnetic resonance imaging. <i>Nature Communications</i> , 2020, 11, 3032.	12.8	62
14	Feasibility of filter-exchange imaging (FEXI) in measuring different exchange processes in human brain. <i>NeuroImage</i> , 2020, 219, 117039.	4.2	26
15	Shutter-Speed DCE-MRI Analyses of Human Glioblastoma Multiforme (GBM) Data. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 52, 850-863.	3.4	18
16	Secondary Degeneration of White Matter After Focal Sensorimotor Cortical Ischemic Stroke in Rats. <i>Frontiers in Neuroscience</i> , 2020, 14, 611696.	2.8	6
17	Dynamically Reversible Iron Oxide Nanoparticle Assemblies for Targeted Amplification of T1-Weighted Magnetic Resonance Imaging of Tumors. <i>Nano Letters</i> , 2019, 19, 4213-4220.	9.1	137
18	An Albumin-Binding ¹ H- ² Dual-Modal MRI Contrast Agents for Improved Sensitivity and Accuracy in Tumor Imaging. <i>Bioconjugate Chemistry</i> , 2019, 30, 1821-1829.	3.6	32

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19	NMR shutter speed elucidates apparent population inversion of ^1H signals due to active transmembrane water cycling. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 411-424.	3.0	22
20	Evaluation of Submillimeter Diffusion Imaging of the Macaque Brain Using Readout-Segmented EPI at 7T. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 2945-2951.	4.2	7
21	Brain active transmembrane water cycling measured by MR is associated with neuronal activity. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1280-1295.	3.0	21
22	Magnetic resonance measurements of cellular and sub-cellular membrane structures in live and fixed neural tissue. <i>ELife</i> , 2019, 8, .	6.0	40
23	Fast, Na^+/K^+ pump driven, steady-state transcytolemmal water exchange in neuronal tissue: A study of rat brain cortical cultures. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 3207-3217.	3.0	47
24	On Quantifying Local Geometric Structures of Fiber Tracts. <i>Lecture Notes in Computer Science</i> , 2018, , 392-400.	1.3	1
25	Multi-parameter MRI to investigate vasculature modulation and photo-thermal ablation combination therapy against cancer. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 2179-2189.	3.3	4
26	^1H and ^{13}C Dual-Modal Magnetic Resonance Imaging: From Molecular Basis to Contrast Agents. <i>ACS Nano</i> , 2017, 11, 5227-5232.	14.6	108
27	Suppressing Nanoparticle-Mononuclear Phagocyte System Interactions of Two-Dimensional Gold Nanorings for Improved Tumor Accumulation and Photothermal Ablation of Tumors. <i>ACS Nano</i> , 2017, 11, 10539-10548.	14.6	117
28	Core-Satellite Polydopamine-Gadolinium-Metallofullerene Nanotheranostics for Multimodal Imaging Guided Combination Cancer Therapy. <i>Advanced Materials</i> , 2017, 29, 1701013.	21.0	185
29	Quantification of Tumor Vascular Permeability and Blood Volume by Positron Emission Tomography. <i>Theranostics</i> , 2017, 7, 2363-2376.	10.0	23
30	Fast, accurate 2D-MR relaxation exchange spectroscopy (REXS): Beyond compressed sensing. <i>Journal of Chemical Physics</i> , 2016, 145, 154202.	3.0	19
31	Assessing the sensitivity of diffusion MRI to detect neuronal activity directly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1728-37.	7.1	35
32	Multi-Component Water Dynamics and Exchange in Brain Cortical Tissue Probed via In-Vitro D-T2 2D Correlation NMR. <i>Biophysical Journal</i> , 2015, 108, 615a.	0.5	0
33	Simultaneous calcium fluorescence imaging and MR of <i>ex vivo</i> organotypic cortical cultures: a new test bed for functional MRI. <i>NMR in Biomedicine</i> , 2015, 28, 1726-1738.	2.8	17
34	Efficient 2D MRI relaxometry using compressed sensing. <i>Journal of Magnetic Resonance</i> , 2015, 255, 88-99.	2.1	35
35	Solving 2D Fredholm Integral from Incomplete Measurements Using Compressive Sensing. <i>SIAM Journal on Imaging Sciences</i> , 2014, 7, 1775-1798.	2.2	18
36	A framework for accurate determination of the T2 distribution from multiple echo magnitude MRI images. <i>Journal of Magnetic Resonance</i> , 2014, 244, 53-63.	2.1	25

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37	NMR water self-diffusion and relaxation studies on sodium polyacrylate solutions and gels in physiologic ionic solutions. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	10