

junzhong Xu

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

2,711
citations

172386

29
h-index

197736

49
g-index

68
all docs

68
docs citations

68
times ranked

2136
citing authors

#	ARTICLE	IF	CITATIONS
1	Disposable point-of-care portable perfusion phantom for quantitative DCE-MRI. <i>Medical Physics</i> , 2022, 49, 271-281.	1.6	3
2	Mapping pH using stimulated echoes formed via chemical exchange. <i>Magnetic Resonance Imaging</i> , 2022, 92, 100-107.	1.0	1
3	Improving MR cell size imaging by inclusion of transcytolemmal water exchange. <i>NMR in Biomedicine</i> , 2022, 35, .	1.6	5
4	MR cell size imaging with temporal diffusion spectroscopy. <i>Magnetic Resonance Imaging</i> , 2021, 77, 109-123.	1.0	9
5	A simple estimate of axon size with diffusion MRI. <i>NeuroImage</i> , 2021, 227, 117619.	2.1	17
6	Probing neural tissues at small scales: Recent progress of oscillating gradient spin echo (OGSE) neuroimaging in humans. <i>Journal of Neuroscience Methods</i> , 2021, 349, 109024.	1.3	19
7	MRI-cytometry: Mapping nonparametric cell size distributions using diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 748-761.	1.9	12
8	Perilesional neurodegenerative injury in multiple sclerosis: Relation to focal lesions and impact on disability. <i>Multiple Sclerosis and Related Disorders</i> , 2021, 49, 102738.	0.9	10
9	Assessing brain injury topographically using MR neurite orientation dispersion and density imaging in multiple sclerosis. <i>Journal of Neuroimaging</i> , 2021, 31, 1003-1013.	1.0	2
10	Selective inversion recovery quantitative magnetization transfer imaging: Toward a 3 T clinical application in multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2020, 26, 457-467.	1.4	16
11	Magnetic resonance imaging of mean cell size in human breast tumors. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 2002-2014.	1.9	43
12	Rapid whole-brain quantitative magnetization transfer imaging using 3D selective inversion recovery sequences. <i>Magnetic Resonance Imaging</i> , 2020, 68, 66-74.	1.0	12
13	Optimization and numerical evaluation of multi-compartment diffusion MRI using the spherical mean technique for practical multiple sclerosis imaging. <i>Magnetic Resonance Imaging</i> , 2020, 74, 56-63.	1.0	8
14	Advanced Multicompartment Diffusion MRI Models and Their Application in Multiple Sclerosis. <i>American Journal of Neuroradiology</i> , 2020, 41, 751-757.	1.2	27
15	MRI of tumor T cell infiltration in response to checkpoint inhibitor therapy. , 2020, 8, e000328.		25
16	Relayed nuclear Overhauser enhancement sensitivity to membrane Cho phospholipids. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 1961-1976.	1.9	16
17	Mapping hepatocyte size in vivo using temporal diffusion spectroscopy MRI. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 2671-2683.	1.9	12
18	Probing axons using multi-compartmental diffusion in multiple sclerosis. <i>Annals of Clinical and Translational Neurology</i> , 2019, 6, 1595-1605.	1.7	17

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19	In vivo magnetic resonance imaging of treatment-induced apoptosis. <i>Scientific Reports</i> , 2019, 9, 9540.	1.6	17
20	Quantitative temporal diffusion spectroscopy as an early imaging biomarker of radiation therapeutic response in gliomas: A preclinical proof of concept. <i>Advances in Radiation Oncology</i> , 2019, 4, 367-376.	0.6	14
21	Translating preclinical MRI methods to clinical oncology. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 1377-1392.	1.9	24
22	Multi-compartmental diffusion characterization of the human cervical spinal cord in vivo using the spherical mean technique. <i>NMR in Biomedicine</i> , 2018, 31, e3894.	1.6	21
23	Spin-locked imaging of 3-methylglucose (3MG) in brain tumors. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1110-1117.	1.9	15
24	Assessment of unilateral ureter obstruction with multi-parametric MRI. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2216-2227.	1.9	25
25	Increased CEST specificity for amide and fast-exchanging amine protons using exchange-dependent relaxation rate. <i>NMR in Biomedicine</i> , 2018, 31, e3863.	1.6	27
26	Tests of clustering thalamic nuclei based on various dMRI models in the squirrel monkey brain. , 2018, 10578, .		0
27	A comparative assessment of preclinical chemotherapeutic response of tumors using quantitative non-Gaussian diffusion MRI. <i>Magnetic Resonance Imaging</i> , 2017, 37, 195-202.	1.0	8
28	CEST imaging of fast exchanging amine pools with corrections for competing effects at 9.4T. <i>NMR in Biomedicine</i> , 2017, 30, e3715.	1.6	31
29	Accuracy in the quantification of chemical exchange saturation transfer (CEST) and relayed nuclear Overhauser enhancement (rNOE) saturation transfer effects. <i>NMR in Biomedicine</i> , 2017, 30, e3716.	1.6	90
30	Measurement of APT using a combined CERT-AREX approach with varying duty cycles. <i>Magnetic Resonance Imaging</i> , 2017, 42, 22-31.	1.0	18
31	Evaluation and comparison of diffusion MR methods for measuring apparent transcytolemmal water exchange rate constant. <i>Journal of Magnetic Resonance</i> , 2017, 275, 29-37.	1.2	25
32	Molecular MR imaging at high fields. <i>Magnetic Resonance Imaging</i> , 2017, 38, 95-100.	1.0	6
33	Assignment of the molecular origins of CEST signals at 2%ppm in rat brain. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 881-887.	1.9	63
34	Application and evaluation of NODDI in the cervical spinal cord of multiple sclerosis patients. <i>NeuroImage: Clinical</i> , 2017, 15, 333-342.	1.4	84
35	In vivo imaging of cancer cell size and cellularity using temporal diffusion spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 156-164.	1.9	71
36	MR imaging of a novel NOE-mediated magnetization transfer with water in rat brain at 9.4T. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 588-597.	1.9	48

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37	Impact of transcytolemmal water exchange on estimates of tissue microstructural properties derived from diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 2239-2249.	1.9	41
38	The microstructural correlates of T_1 in white matter. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1341-1345.	1.9	74
39	Quantification of cell size using temporal diffusion spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1076-1085.	1.9	66
40	Time-Dependent Influence of Cell Membrane Permeability on MR Diffusion Measurements. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1927-1934.	1.9	38
41	Fast and simplified mapping of mean axon diameter using temporal diffusion spectroscopy. <i>NMR in Biomedicine</i> , 2016, 29, 400-410.	1.6	24
42	A new NOE-mediated MT signal at around ~ 1.6 ppm for detecting ischemic stroke in rat brain. <i>Magnetic Resonance Imaging</i> , 2016, 34, 1100-1106.	1.0	84
43	Early Detection of Treatment-Induced Mitotic Arrest Using Temporal Diffusion Magnetic Resonance Spectroscopy. <i>Neoplasia</i> , 2016, 18, 387-397.	2.3	20
44	Influence of water compartmentation and heterogeneous relaxation on quantitative magnetization transfer imaging in rodent brain tumors. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 635-644.	1.9	17
45	Assessing tumor cytoarchitecture using multiecho DSC-MRI derived measures of the transverse relaxivity at tracer equilibrium (TRATE). <i>Magnetic Resonance in Medicine</i> , 2015, 74, 772-784.	1.9	30
46	T_1 correction in amide proton transfer imaging: indication of the influence of transcytolemmal water exchange on CEST measurements. <i>NMR in Biomedicine</i> , 2015, 28, 1655-1662.	1.6	16
47	Imaging of amide proton transfer and nuclear Overhauser enhancement in ischemic stroke with corrections for competing effects. <i>NMR in Biomedicine</i> , 2015, 28, 200-209.	1.6	44
48	A combined analytical solution for chemical exchange saturation transfer and semi-solid magnetization transfer. <i>NMR in Biomedicine</i> , 2015, 28, 217-230.	1.6	111
49	Structural information revealed by the dispersion of ADC with frequency. <i>Magnetic Resonance Imaging</i> , 2015, 33, 1083-1090.	1.0	8
50	Quantitative magnetization transfer imaging of rodent glioma using selective inversion recovery. <i>NMR in Biomedicine</i> , 2014, 27, 253-260.	1.6	30
51	On the origins of chemical exchange saturation transfer (CEST) contrast in tumors at 9.4T. <i>NMR in Biomedicine</i> , 2014, 27, 406-416.	1.6	133
52	Imaging amide proton transfer and nuclear overhauser enhancement using chemical exchange rotation transfer (CERT). <i>Magnetic Resonance in Medicine</i> , 2014, 72, 471-476.	1.9	62
53	Fast and robust measurement of microstructural dimensions using temporal diffusion spectroscopy. <i>Journal of Magnetic Resonance</i> , 2014, 242, 4-9.	1.2	39
54	Inverse Z-spectrum analysis for spillover-, MT-, and T_1 -corrected steady-state pulsed CEST-MRI - application to pH-weighted MRI of acute stroke. <i>NMR in Biomedicine</i> , 2014, 27, 240-252.	1.6	234

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55	Mapping mean axon diameter and axonal volume fraction by MRI using temporal diffusion spectroscopy. <i>NeuroImage</i> , 2014, 103, 10-19.	2.1	109
56	Measurement of regional cerebral glucose uptake by magnetic resonance spin-lock imaging. <i>Magnetic Resonance Imaging</i> , 2014, 32, 1078-1084.	1.0	37
57	An Efficient Computational Approach to Characterize DSC-MRI Signals Arising from Three-Dimensional Heterogeneous Tissue Structures. <i>PLoS ONE</i> , 2014, 9, e84764.	1.1	21
58	A new method for detecting exchanging amide protons using chemical exchange rotation transfer. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 637-647.	1.9	105
59	Characterizing Tumor Response to Chemotherapy at Various Length Scales Using Temporal Diffusion Spectroscopy. <i>PLoS ONE</i> , 2012, 7, e41714.	1.1	40
60	Effects of intracellular organelles on the apparent diffusion coefficient of water molecules in cultured human embryonic kidney cells. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 796-801.	1.9	28
61	Influence of cell cycle phase on apparent diffusion coefficient in synchronized cells detected using temporal diffusion spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 920-926.	1.9	32
62	Dependence of temporal diffusion spectra on microstructural properties of biological tissues. <i>Magnetic Resonance Imaging</i> , 2011, 29, 380-390.	1.0	40
63	Characterization of tissue structure at varying length scales using temporal diffusion spectroscopy. <i>NMR in Biomedicine</i> , 2010, 23, 745-756.	1.6	131
64	Optimized inversion recovery sequences for quantitative T_1 and magnetization transfer imaging. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 491-500.	1.9	57
65	Sensitivity of MR diffusion measurements to variations in intracellular structure: Effects of nuclear size. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 828-833.	1.9	86
66	Quantitative characterization of tissue microstructure with temporal diffusion spectroscopy. <i>Journal of Magnetic Resonance</i> , 2009, 200, 189-197.	1.2	54
67	Numerical study of water diffusion in biological tissues using an improved finite difference method. <i>Physics in Medicine and Biology</i> , 2007, 52, N111-N126.	1.6	57
68	Transcallosal and Corticospinal White Matter Disease and Its Association With Motor Impairment in Multiple Sclerosis. <i>Frontiers in Neurology</i> , 0, 13, .	1.1	2