

Xiaohong Joe Zhou

List of Publications by Year in descending order

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66
papers

2,431
citations

257357

24
h-index

214721

47
g-index

67
all docs

67
docs citations

67
times ranked

3050
citing authors

#	ARTICLE	IF	CITATIONS
1	Anomalous diffusion expressed through fractional order differential operators in the Bloch-Torrey equation. <i>Journal of Magnetic Resonance</i> , 2008, 190, 255-270.	1.2	375
2	Psychoradiology: The Frontier of Neuroimaging in Psychiatry. <i>Radiology</i> , 2016, 281, 357-372.	3.6	227
3	Diffusion Tensor Imaging Study of White Matter Fiber Tracts in Pediatric Bipolar Disorder and Attention-Deficit/Hyperactivity Disorder. <i>Biological Psychiatry</i> , 2009, 65, 586-593.	0.7	223
4	Studies of anomalous diffusion in the human brain using fractional order calculus. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 562-569.	1.9	150
5	Diffusion MRI of cancer: From low to high b -values. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 23-40.	1.9	129
6	Characterization of benign and metastatic vertebral compression fractures with quantitative diffusion MR imaging. <i>American Journal of Neuroradiology</i> , 2002, 23, 165-70.	1.2	91
7	Differentiation of Low- and High-Grade Pediatric Brain Tumors with High b -Value Diffusion-weighted MR Imaging and a Fractional Order Calculus Model. <i>Radiology</i> , 2015, 277, 489-496.	3.6	79
8	Analytical error propagation in diffusion anisotropy calculations. <i>Journal of Magnetic Resonance Imaging</i> , 2004, 19, 489-498.	1.9	76
9	Concomitant magnetic-field-induced artifacts in axial echo planar imaging. <i>Magnetic Resonance in Medicine</i> , 1998, 39, 596-605.	1.9	65
10	Correction of concomitant magnetic field-induced image artifacts in nonaxial echo-planar imaging. <i>Magnetic Resonance in Medicine</i> , 2002, 48, 509-515.	1.9	58
11	Differentiating low- and high-grade pediatric brain tumors using a continuous-time random walk diffusion model at high b -values. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1149-1157.	1.9	57
12	Microstructural abnormalities of white matter differentiate pediatric and adult-onset bipolar disorder. <i>Bipolar Disorders</i> , 2012, 14, 597-606.	1.1	56
13	Artifacts induced by concomitant magnetic field in fast spin-echo imaging. <i>Magnetic Resonance in Medicine</i> , 1998, 40, 582-591.	1.9	49
14	Improved Differentiation of Low-Grade and High-Grade Gliomas and Detection of Tumor Proliferation Using APT Contrast Fitted from Z-Spectrum. <i>Molecular Imaging and Biology</i> , 2018, 20, 623-631.	1.3	48
15	Creatine CEST MRI for Differentiating Gliomas with Different Degrees of Aggressiveness. <i>Molecular Imaging and Biology</i> , 2017, 19, 225-232.	1.3	45
16	Brain white matter changes in CPAP-treated obstructive sleep apnea patients with residual sleepiness. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 1371-1378.	1.9	41
17	Differentiation of Low- and High-Grade Gliomas Using High b -Value Diffusion Imaging with a Non-Gaussian Diffusion Model. <i>American Journal of Neuroradiology</i> , 2016, 37, 1643-1649.	1.2	39
18	High-Spatial-Resolution Diffusion MRI in Parkinson Disease: Lateral Asymmetry of the Substantia Nigra. <i>Radiology</i> , 2019, 291, 149-157.	3.6	35

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19	Neural correlates of individual differences in fear learning. Behavioural Brain Research, 2015, 287, 34-41.	1.2	31
20	Non-Gaussian diffusion imaging with a fractional order calculus model to predict response of gastrointestinal stromal tumor to second-line sunitinib therapy. Magnetic Resonance in Medicine, 2018, 79, 1399-1406.	1.9	31
21	White matter structural differences in OSA patients experiencing residual daytime sleepiness with high CPAP use: a non-Gaussian diffusion MRI study. Sleep Medicine, 2019, 53, 51-59.	0.8	30
22	Quantitative MRI of Perivascular Spaces at 3T for Early Diagnosis of Mild Cognitive Impairment. American Journal of Neuroradiology, 2018, 39, 1622-1628.	1.2	29
23	Anomalous diffusion measured by a twice-refocused spin echo pulse sequence: Analysis using fractional order calculus. Journal of Magnetic Resonance Imaging, 2011, 33, 1177-1183.	1.9	28
24	A fractional motion diffusion model for grading pediatric brain tumors. NeuroImage: Clinical, 2016, 12, 707-714.	1.4	25
25	Gap-free segmentation of vascular networks with automatic image processing pipeline. Computers in Biology and Medicine, 2017, 82, 29-39.	3.9	25
26	Imaging short-lived reactive oxygen species (ROS) with endogenous contrast MRI. Journal of Magnetic Resonance Imaging, 2018, 47, 222-229.	1.9	23
27	Automatic recognition of subject-specific cerebrovascular trees. Magnetic Resonance in Medicine, 2017, 77, 398-410.	1.9	22
28	Magnetic resonance imaging in personalized medicine. Science China Life Sciences, 2017, 60, 1-4.	2.3	22
29	Discrimination of Malignant versus Benign Mediastinal Lymph Nodes Using Diffusion MRI with an IVIM Model. European Radiology, 2018, 28, 1301-1309.	2.3	21
30	Optimization of an 8-Channel Loop-Array Coil for a 7 T MRI System with the Guidance of a Co-Simulation Approach. Applied Magnetic Resonance, 2014, 45, 437-449.	0.6	20
31	Aberrant interhemispheric functional connectivity in first-episode, drug-naïve major depressive disorder. Brain Imaging and Behavior, 2019, 13, 1302-1310.	1.1	20
32	BOLD fMRI using a modified HASTE sequence. NeuroImage, 2010, 49, 457-466.	2.1	18
33	Intravoxel Incoherent Motion Diffusion-weighted MRI of Infiltrated Marrow for Predicting Overall Survival in Newly Diagnosed Acute Myeloid Leukemia. Radiology, 2020, 295, 155-161.	3.6	16
34	Evaluation of a fractional-order calculus diffusion model and bi-parametric VI-RADS for staging and grading bladder urothelial carcinoma. European Radiology, 2022, 32, 890-900.	2.3	16
35	In Vivo Quantification of White Matter Microstructure for Use in Aging: A Focus on Two Emerging Techniques. American Journal of Geriatric Psychiatry, 2014, 22, 111-121.	0.6	15
36	Quartile histogram assessment of glioma malignancy using high b-value diffusion MRI with a continuous-time random walk model. NMR in Biomedicine, 2021, 34, e4485.	1.6	15

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37	Development of a high resolution MRI intracranial atherosclerosis imaging phantom. Journal of NeuroInterventional Surgery, 2018, 10, 143-149.	2.0	13
38	Conventional MRI to detect the differences between mass-like tuberculosis and lung cancer. Journal of Thoracic Disease, 2018, 10, 5673-5684.	0.6	13
39	Capturing complexity of the diffusion-weighted MR signal decay. Magnetic Resonance Imaging, 2019, 56, 110-118.	1.0	12
40	SIGNAL ACQUISITION AND K-SPACE SAMPLING. , 2004, , 367-442.		12
41	ADVANCED PULSE SEQUENCE TECHNIQUES. , 2004, , 802-954.		11
42	In vivo assessment of Lauren classification for gastric adenocarcinoma using diffusion MRI with a fractional order calculus model. European Radiology, 2021, 31, 5659-5668.	2.3	11
43	Phantom validation of quantitative susceptibility and dynamic contrast-enhanced permeability MR sequences across instruments and sites. Journal of Magnetic Resonance Imaging, 2020, 51, 1192-1199.	1.9	10
44	Quantification of near-wall hemodynamic risk factors in large-scale cerebral arterial trees. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2987.	1.0	9
45	Reduction of fast spin echo cusp artifact using a slice-tilting gradient. Magnetic Resonance in Medicine, 2010, 64, 220-228.	1.9	8
46	A fractional motion diffusion model for a twice-refocused spin-echo pulse sequence. NMR in Biomedicine, 2018, 31, e3960.	1.6	8
47	Validation of parametric mesh generation for subject-specific cerebroarterial trees using modified Hausdorff distance metrics. Computers in Biology and Medicine, 2018, 100, 209-220.	3.9	7
48	Magnetic resonance imaging with submillisecond temporal resolution. Magnetic Resonance in Medicine, 2021, 85, 2434-2444.	1.9	7
49	Predicting the aggressiveness of peripheral zone prostate cancer using a fractional order calculus diffusion model. European Journal of Radiology, 2021, 143, 109913.	1.2	7
50	The effects of head-cooling on brain function during passive hyperthermia: an fMRI study. International Journal of Hyperthermia, 2018, 34, 1010-1019.	1.1	6
51	Steer-PROP: a GRASE-PROPELLER sequence with interecho steering gradient pulses. Magnetic Resonance in Medicine, 2018, 79, 2533-2541.	1.9	6
52	Visualization of Human Aortic Valve Dynamics Using Magnetic Resonance Imaging with Submillisecond Temporal Resolution. Journal of Magnetic Resonance Imaging, 2021, 54, 1246-1254.	1.9	6
53	In-plane simultaneous multisegment imaging using a 2D RF pulse. Magnetic Resonance in Medicine, 2022, 87, 263-271.	1.9	5
54	Error propagation model for microscopic magnetic resonance elastography shear-wave images. Magnetic Resonance Imaging, 2007, 25, 94-100.	1.0	4

#	ARTICLE	IF	CITATIONS
55	A hybrid sodium/proton double-resonant transceiver array for 9.4T MRI. , 2013, , .		4
56	Three-dimensional reduced field-of-view imaging (3D-rFOVI). Magnetic Resonance in Medicine, 2022, 87, 2372-2379.	1.9	4
57	Influence of Free Radicals on the Intrinsic MRI Relaxation Properties. Advances in Experimental Medicine and Biology, 2017, 977, 73-79.	0.8	3
58	New imaging features of tuberous sclerosis complex: A 7 T MRI study. NMR in Biomedicine, 2021, 34, e4565.	1.6	3
59	Diffusion in Sephadex Gel Structures: Time Dependency Revealed by Multi-Sequence Acquisition over a Broad Diffusion Time Range. Mathematics, 2021, 9, 1688.	1.1	3
60	MRI with sub-millisecond temporal resolution over a reduced field of view. Magnetic Resonance in Medicine, 2021, 86, 3166-3174.	1.9	3
61	Deep Learning Analyses of Brain MRI to Identify Sustained Attention Deficit in Treated Obstructive Sleep Apnea: A Pilot Study. Sleep and Vigilance, 2022, 6, 179-184.	0.4	2
62	Optimized MTL array with serial capacitors for 7T MRI. , 2013, , .		1
63	Exercise Training and Cognitive Function in Kidney Disease. Nursing Research, 2021, Publish Ahead of Print, .	0.8	1
64	Fluid-attenuated inversion recovery diffusion-weighted imaging (DWI) for evaluating chemotherapy response in patients with acute leukemia: Comparison with conventional DWI. Indian Journal of Cancer, 2022, 59, 230.	0.2	1
65	<sc>Gradient-echo-Train</sc>-based sub-millisecond periodic event encoded dynamic imaging with random (k, t)-space undersampling: k-SPEEDI</sc>. Magnetic Resonance in Medicine, 0, , .	1.9	1
66	Condensation Artifact. Journal of Magnetic Resonance Imaging, 2021, 54, 1024-1027.	1.9	0