Ze Wang

List of Publications by Citations

123 papers	5,782 citations	37 h-index	74 g-index
129 ext. papers	6,847 ext. citations	5.2 avg, IF	5.68 L-index

#	Paper	IF	Citations
123	Aerobic high-intensity intervals improve VO2max more than moderate training. *Medicine and Science in Sports and Exercise*, **2007**, 39, 665-71	1.2	696
122	Empirical optimization of ASL data analysis using an ASL data processing toolbox: ASLtbx. *Magnetic Resonance Imaging*, **2008**, 26, 261-9	3.3	337
121	Limbic activation to cigarette smoking cues independent of nicotine withdrawal: a perfusion fMRI study. *Neuropsychopharmacology*, **2007**, 32, 2301-9	8.7	283
120	Prelude to passion: limbic activation by "unseen" drug and sexual cues. *PLoS ONE*, **2008**, 3, e1506	3.7	259
119	Transfer of Fresh versus Frozen Embryos in Ovulatory Women. *New England Journal of Medicine*, **2018**, 378, 126-136	59.2	227
118	Applications of arterial spin labeled MRI in the brain. *Journal of Magnetic Resonance Imaging*, **2012**, 35, 1026-37	5.6	216
117	Neural substrates of abstinence-induced cigarette cravings in chronic smokers. *Journal of Neuroscience*, **2007**, 27, 14035-40	6.6	210
116	Neural organization of spoken language revealed by lesion-symptom mapping. *Nature Communications*, **2015**, 6, 6762	17.4	175
115	Multivariate lesion-symptom mapping using support vector regression. *Human Brain Mapping*, **2014**, 35, 5861-76	5.9	167
114	Arterial spin-labeled perfusion MRI in basic and clinical neuroscience. *Current Opinion in Neurology*, **2009**, 22, 348-55	7.1	160
113	Distinct cerebral perfusion patterns in FTLD and AD. *Neurology*, **2010**, 75, 881-8	6.5	131
112	Effects of varenicline on smoking cue–triggered neural and craving responses. *Archives of General Psychiatry*, **2011**, 68, 516-26		131
111	Comparison of 2D and 3D single-shot ASL perfusion fMRI sequences. *NeuroImage*, **2013**, 66, 662-71	7.9	110
110	Improving cerebral blood flow quantification for arterial spin labeled perfusion MRI by removing residual motion artifacts and global signal fluctuations. *Magnetic Resonance Imaging*, **2012**, 30, 1409-15	3.3	99
109	Support vector machine learning-based fMRI data group analysis. *NeuroImage*, **2007**, 36, 1139-51	7.9	97
108	Relations between BOLD fMRI-derived resting brain activity and cerebral blood flow. *PLoS ONE*, **2012**, 7, e44556	3.7	90
107	Individual Variability and Test-Retest Reliability Revealed by Ten Repeated Resting-State Brain Scans over One Month. *PLoS ONE*, **2015**, 10, e0144963	3.7	88

106	Nipping cue reactivity in the bud: baclofen prevents limbic activation elicited by subliminal drug cues. *Journal of Neuroscience*, **2014**, 34, 5038-43	6.6	87
105	Continuous arterial spin labeling perfusion measurements using single shot 3D GRASE at 3 T. *Magnetic Resonance in Medicine*, **2005**, 54, 1241-7	4.4	84
104	DAT genotype modulates brain and behavioral responses elicited by cigarette cues. *Neuropsychopharmacology*, **2009**, 34, 717-28	8.7	83
103	Improved data reconstruction method for GRAPPA. *Magnetic Resonance in Medicine*, **2005**, 54, 738-42	4.4	83
102	Brain entropy mapping using fMRI. *PLoS ONE*, **2014**, 9, e89948	3.7	72
101	Continuous ASL (CASL) perfusion MRI with an array coil and parallel imaging at 3T. *Magnetic Resonance in Medicine*, **2005**, 54, 732-7	4.4	72
100	Test-retest stability analysis of resting brain activity revealed by blood oxygen level-dependent functional MRI. *Journal of Magnetic Resonance Imaging*, **2012**, 36, 344-54	5.6	71
99	Arterial spin labeled MRI in prodromal Alzheimer's disease: A multi-site study. *NeuroImage: Clinical*, **2013**, 2, 630-6	5.3	65
98	The ins and outs of meaning: Behavioral and neuroanatomical dissociation of semantically-driven word retrieval and multimodal semantic recognition in aphasia. *Neuropsychologia*, **2015**, 76, 208-19	3.2	62
97	Quantification of cerebral blood flow as biomarker of drug effect: arterial spin labeling phMRI after a single dose of oral citalopram. *Clinical Pharmacology and Therapeutics*, **2011**, 89, 251-8	6.1	55
96	RESTplus: an improved toolkit for resting-state functional magnetic resonance imaging data processing. *Science Bulletin*, **2019**, 64, 953-954	10.6	53
95	Narrative speech production: an fMRI study using continuous arterial spin labeling. *NeuroImage*, **2008**, 40, 932-939	7.9	53
94	Dopamine transporter genotype modulation of neural responses to smoking cues: confirmation in a new cohort. *Addiction Biology*, **2011**, 16, 308-22	4.6	51
93	Assessment of functional development in normal infant brain using arterial spin labeled perfusion MRI. *NeuroImage*, **2008**, 39, 973-8	7.9	49
92	A VBM study demonstrating 'apparent' effects of a single dose of medication on T1-weighted MRIs. *Brain Structure and Function*, **2013**, 218, 97-104	4	45
91	To smooth or not to smooth? ROC analysis of perfusion fMRI data. *Magnetic Resonance Imaging*, **2005**, 23, 75-81	3.3	44
90	Imaging mesial temporal lobe activation during scene encoding: comparison of fMRI using BOLD and arterial spin labeling. *Human Brain Mapping*, **2007**, 28, 1391-400	5.9	43
89	Comparison of non-invasive MRI measurements of cerebral blood flow in a large multisite cohort. *Journal of Cerebral Blood Flow and Metabolism*, **2016**, 36, 1244-56	7.3	40

88	Adenovirus technology for gene manipulation and functional studies. *Drug Discovery Today*, **2000**, 5, 10-16	8.8	38
87	Resting state brain function analysis using concurrent BOLD in ASL perfusion fMRI. *PLoS ONE*, **2013**, 8, e65884	3.7	38
86	Modulation of resting brain cerebral blood flow by the GABA B agonist, baclofen: a longitudinal perfusion fMRI study. *Drug and Alcohol Dependence*, **2011**, 117, 176-83	4.9	36
85	Evaluation of segmented 3D acquisition schemes for whole-brain high-resolution arterial spin labeling at 3 T. *NMR in Biomedicine*, **2014**, 27, 1387-96	4.4	35
84	Reward-related brain response and craving correlates of marijuana cue exposure: a preliminary study in treatment-seeking marijuana-dependent subjects. *Journal of Addiction Medicine*, **2013**, 7, 8-16	3.8	35
83	Alterations in regional functional coherence within the sensory-motor network in amyotrophic lateral sclerosis. *Neuroscience Letters*, **2014**, 558, 192-6	3.3	34
82	Nicotine abstinence-induced cerebral blood flow changes by genotype. *Neuroscience Letters*, **2008**, 438, 275-80	3.3	33
81	A hyper-connected but less efficient small-world network in the substance-dependent brain. *Drug and Alcohol Dependence*, **2015**, 152, 102-8	4.9	32
80	Systemic mycobacterial infection inhibits antigen-specific immunoglobulin E production, bronchial mucus production and eosinophilic inflammation induced by allergen. *Immunology*, **1999**, 98, 329-37	7.8	32
79	Percent amplitude of fluctuation: A simple measure for resting-state fMRI signal at single voxel level. *PLoS ONE*, **2020**, 15, e0227021	3.7	30
78	Altered motor network functional connectivity in amyotrophic lateral sclerosis: a resting-state functional magnetic resonance imaging study. *NeuroReport*, **2013**, 24, 657-62	1.7	30
77	Resting State Brain Entropy Alterations in Relapsing Remitting Multiple Sclerosis. *PLoS ONE*, **2016**, 11, e0146080	3.7	30
76	A hybrid SVM-GLM approach for fMRI data analysis. *NeuroImage*, **2009**, 46, 608-15	7.9	26
75	Increased interleukin-8 expression by cigarette smoke extract in endothelial cells. *Environmental Toxicology and Pharmacology*, **2000**, 9, 19-23	5.8	26
74	Denoising arterial spin labeling perfusion MRI with deep machine learning. *Magnetic Resonance Imaging*, **2020**, 68, 95-105	3.3	24
73	Comparison of PASL, PCASL, and background-suppressed 3D PCASL in mild cognitive impairment. *Human Brain Mapping*, **2017**, 38, 5260-5273	5.9	24
72	Characterizing early Alzheimer's disease and disease progression using hippocampal volume and arterial spin labeling perfusion MRI. *Journal of Alzheimer's Disease*, **2014**, 42 Suppl 4, S495-502	4.3	23
71	Structural Correlation-based Outlier Rejection (SCORE) algorithm for arterial spin labeling time series. *Journal of Magnetic Resonance Imaging*, **2017**, 45, 1786-1797	5.6	23

70	Cerebral blood flow changes in remitted early- and late-onset depression patients. *Oncotarget*, **2017**, 8, 76214-76222	3.3	23
69	Caffeine Caused a Widespread Increase of Resting Brain Entropy. *Scientific Reports*, **2018**, 8, 2700	4.9	22
68	Neuroimaging, genetics and the treatment of nicotine addiction. *Behavioural Brain Research*, **2008**, 193, 159-69	3.4	22
67	Decreased cerebral blood flow in the primary motor cortex in major depressive disorder with psychomotor retardation. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, **2018**, 81, 438-444	5.5	21
66	Whole-brain background-suppressed pCASL MRI with 1D-accelerated 3D RARE Stack-Of-Spirals readout. *PLoS ONE*, **2017**, 12, e0183762	3.7	20
65	Changes in cerebral blood flow after transjugular intrahepatic portosystemic shunt can help predict the development of hepatic encephalopathy: an arterial spin labeling MR study. *European Journal of Radiology*, **2012**, 81, 3851-6	4.7	20
64	Emotional, physical and sexual abuse are associated with a heightened limbic response to cocaine cues. *Addiction Biology*, **2017**, 22, 1768-1777	4.6	19
63	2D partially parallel imaging with k-space surrounding neighbors-based data reconstruction. *Magnetic Resonance in Medicine*, **2006**, 56, 1389-96	4.4	19
62	Cerebral blood flow measured by arterial-spin labeling MRI: a useful biomarker for characterization of minimal hepatic encephalopathy in patients with cirrhosis. *European Journal of Radiology*, **2013**, 82, 1981-8	4.7	18
61	Fixed-point algorithms for constrained ICA and their applications in fMRI data analysis. *Magnetic Resonance Imaging*, **2011**, 29, 1288-303	3.3	18
60	Microvascular perfusion based on arterial spin labeled perfusion MRI as a measure of vascular risk in Alzheimer's disease. *Journal of Alzheimer's Disease*, **2012**, 32, 677-87	4.3	18
59	Detection of telomerase activity in prostatic fluid specimens. *Urologic Oncology: Seminars and Original Investigations*, **2000**, 6, 4-9	2.8	18
58	Support vector machine learning-based cerebral blood flow quantification for arterial spin labeling MRI. *Human Brain Mapping*, **2014**, 35, 2869-75	5.9	17
57	Hyper-resting brain entropy within chronic smokers and its moderation by Sex. *Scientific Reports*, **2016**, 6, 29435	4.9	16
56	Targeted genetic analysis of cerebral blood flow imaging phenotypes implicates the INPP5D gene. *Neurobiology of Aging*, **2019**, 81, 213-221	5.6	16
55	A hypo-status in drug-dependent brain revealed by multi-modal MRI. *Addiction Biology*, **2017**, 22, 1622-1631	4.6	15
54	Associations of brain entropy (BEN) to cerebral blood flow and fractional amplitude of low-frequency fluctuations in the resting brain. *Brain Imaging and Behavior*, **2019**, 13, 1486-1495	4.1	15
53	Short-term apparent brain tissue changes are contributed by cerebral blood flow alterations. *PLoS ONE*, **2017**, 12, e0182182	3.7	14

52	3D-accelerated, stack-of-spirals acquisitions and reconstruction of arterial spin labeling MRI. *Magnetic Resonance in Medicine*, **2017**, 78, 1405-1419	4.4	14
51	Increased Low-Frequency Resting-State Brain Activity by High-Frequency Repetitive TMS on the Left Dorsolateral Prefrontal Cortex. *Frontiers in Psychology*, **2017**, 8, 2266	3.4	14
50	An improved sequential method for principal component analysis. *Pattern Recognition Letters*, **2003**, 24, 1409-1415	4.7	14
49	Association of Intensive vs Standard Blood Pressure Control With Magnetic Resonance Imaging Biomarkers of Alzheimer Disease: Secondary Analysis of the SPRINT MIND Randomized Trial. *JAMA Neurology*, **2021**, 78, 568-577	17.2	14
48	Arterial spin labeling perfusion MRI signal denoising using robust principal component analysis. *Journal of Neuroscience Methods*, **2018**, 295, 10-19	3	14
47	Function lateralization via measuring coherence laterality. *NeuroImage*, **2009**, 47, 281-8	7.9	13
46	Resting-state brain entropy in schizophrenia. *Comprehensive Psychiatry*, **2019**, 89, 16-21	7.3	13
45	Priors-guided slice-wise adaptive outlier cleaning for arterial spin labeling perfusion MRI. *Journal of Neuroscience Methods*, **2018**, 307, 248-253	3	12
44	Low prefrontal perfusion linked to depression symptoms in methadone-maintained opiate-dependent patients. *Drug and Alcohol Dependence*, **2009**, 99, 11-7	4.9	11
43	Brain Entropy Mapping in Healthy Aging and Alzheimer⍰ Disease. *Frontiers in Aging Neuroscience*, **2020**, 12, 596122	5.3	11
42	Accelerating GluCEST imaging using deep learning for B correction. *Magnetic Resonance in Medicine*, **2020**, 84, 1724-1733	4.4	11
41	Altered Regional Cerebral Blood Flow of Right Cerebellum Posterior Lobe in Asthmatic Patients With or Without Depressive Symptoms. *Frontiers in Psychiatry*, **2018**, 9, 225	5	10
40	A Multiscale Deep Learning Method for Quantitative Visualization of Traumatic Hemoperitoneum at CT: Assessment of Feasibility and Comparison with Subjective Categorical Estimation. *Radiology: Artificial Intelligence*, **2020**, 2, e190220	8.7	10
39	Theta-burst transcranial magnetic stimulation induced functional connectivity changes between dorsolateral prefrontal cortex and default-mode-network. *Brain Imaging and Behavior*, **2020**, 14, 1955-1963	4.1	10
38	Smoking Cessation With 20 Hz Repetitive Transcranial Magnetic Stimulation (rTMS) Applied to Two Brain Regions: A Pilot Study. *Frontiers in Human Neuroscience*, **2018**, 12, 344	3.3	10
37	Assessing the mean strength and variations of the time-to-time fluctuations of resting-state brain activity. *Medical and Biological Engineering and Computing*, **2017**, 55, 631-640	3.1	9
36	Strategies for reducing large fMRI data sets for independent component analysis. *Magnetic Resonance Imaging*, **2006**, 24, 591-6	3.3	9
35	Data compression on the illumination adjustable images by PCA and ICA. *Signal Processing: Image Communication*, **2004**, 19, 939-954	2.8	9

34	Magnetic Resonance Fingerprinting Using a Fast Dictionary Searching Algorithm: MRF-ZOOM. *IEEE Transactions on Biomedical Engineering*, **2019**, 66, 1526-1535	5	8
33	Reduced brain entropy by repetitive transcranial magnetic stimulation on the left dorsolateral prefrontal cortex in healthy young adults. *Brain Imaging and Behavior*, **2019**, 13, 421-429	4.1	8
32	Data compression with spherical wavelets and wavelets for the image-based relighting. *Computer Vision and Image Understanding*, **2004**, 96, 327-344	4.3	7
31	A Two-Stage Multi-loss Super-Resolution Network for Arterial Spin Labeling Magnetic Resonance Imaging. *Lecture Notes in Computer Science*, **2019**, 12-20	0.9	7
30	Impact of perfusion lesion in corticospinal tract on response to reperfusion. *European Radiology*, **2017**, 27, 5280-5289	8	6
29	Network-wise cerebral blood flow redistribution after 20 Hz rTMS on left dorso-lateral prefrontal cortex. *European Journal of Radiology*, **2018**, 101, 144-148	4.7	6
28	Wavelet-transformed temporal cerebral blood flow signals during attempted inhibition of cue-induced cocaine craving distinguish prognostic phenotypes. *Drug and Alcohol Dependence*, **2013**, 128, 140-7	4.9	6
27	Altered Brain Entropy as a predictor of antidepressant response in major depressive disorder. *Journal of Affective Disorders*, **2020**, 260, 716-721	6.6	6
26	Eigen-image based compression for the image-based relighting with cascade recursive least squared networks. *Pattern Recognition*, **2004**, 37, 1219-1231	7.7	5
25	Telitacicept Following Plasma Exchange in the Treatment of Subjects With Recurrent NMOSD: Study Protocol for a Single-Center, Single-Arm, Open-Label Study. *Frontiers in Neurology*, **2021**, 12, 596791	4.1	5
24	Fast dictionary generation and searching for magnetic resonance fingerprinting. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2017**, 2017, 3256-3259	0.9	4
23	Support vector regression based multivariate lesion-symptom mapping. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2014**, 2014, 5599-602	0.9	4
22	An improved optimal bit allocation method for sub-band coding. *Pattern Recognition Letters*, **2003**, 24, 3007-3013	4.7	4
21	Improving Sensitivity of Arterial Spin Labeling Perfusion MRI in Alzheimer's Disease Using Transfer Learning of Deep Learning-Based ASL Denoising. *Journal of Magnetic Resonance Imaging*, **2021**,	5.6	4
20	Percent amplitude of fluctuation: a simple measure for resting-state fMRI signal at single voxel level		3
19	Longitudinal Cerebral Blood Flow Changes in Normal Aging and the Alzheimer's Disease Continuum Identified by Arterial Spin Labeling MRI. *Journal of Alzheimer's Disease*, **2021**, 81, 1727-1735	4.3	3
18	Patch-based local learning method for cerebral blood flow quantification with arterial spin-labeling MRI. *Medical and Biological Engineering and Computing*, **2018**, 56, 951-956	3.1	3
17	Boost up the detection sensitivity of ASL perfusion fMRI through support vector machine. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2006**, 2006, 1006-9		2

16	CRLS-PCA based independent component analysis for fMRI study. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2005**, 2005, 5904-7		2
15	Functional connectome mediates the association between sleep disturbance and mental health in preadolescence: A longitudinal mediation study.. *Human Brain Mapping*, **2022**,	5.9	2
14	BOLD fMRI-Based Brain Perfusion Prediction Using Deep Dilated Wide Activation Networks. *Lecture Notes in Computer Science*, **2019**, 373-381	0.9	2
13	The Systematic Bias of Entropy Calculation in the Multi-Scale Entropy Algorithm. *Entropy*, **2021**, 23,	2.8	2
12	MRF-ZOOM for the unbalanced steady-state free precession (ubSSFP) magnetic resonance fingerprinting. *Magnetic Resonance Imaging*, **2020**, 65, 146-154	3.3	1
11	The neurocognitive correlates of brain entropy estimated by resting state fMRI. *NeuroImage*, **2021**, 232, 117893	7.9	1
10	Partial volume correction for arterial spin labeling using the inherent perfusion information of multiple measurements. *BioMedical Engineering OnLine*, **2019**, 18, 12	4.1	1
9	N-acetyl cysteine administration affects cerebral blood flow as measured by arterial spin labeling MRI in patients with multiple sclerosis. *Heliyon*, **2021**, 7, e07615	3.6	1
8	A Novel Missense Mutation, R1283S, of the Cystic Fibrosis Transmembrane Conductance Regulator Gene in a 47-Year-Old African-American Patient. *Molecular Diagnosis and Therapy*, **1997**, 2, 205-208		1
7	Human Umbilical Cord Mesenchymal Stem Cells to Treat Neuromyelitis Optica Spectrum Disorder (hUC-MSC-NMOSD): A Study Protocol for a Prospective, Multicenter, Randomized, Placebo-Controlled Clinical Trial.. *Frontiers in Neurology*, **2022**, 13, 860083	4.1	1
6	Lower resting brain entropy is associated with stronger task activation and deactivation.. *NeuroImage*, **2022**, 249, 118875	7.9	0
5	Attention and Working Memory Task-Load Dependent Activation Increase with Deactivation Decrease after Caffeine Ingestion **2017**, 21, 199		
4	Improving fMRI activation detection sensitivity using intervoxel coherence mapping. *International Journal of Imaging Systems and Technology*, **2012**, 22, 33-36	2.5	
3	Recipient Outcomes of Salvage Liver Transplantation Versus Primary Liver Transplantation: Systematic Review and Meta-Analysis. *Transplantation*, **2012**, 94, 407	1.8	
2	Mapping the Spatio-Temporal Functional Coherence in the Resting Brain. *Lecture Notes in Computer Science*, **2019**, 39-48	0.9	
1	POCS-Augmented CycleGAN for MR Image Reconstruction. *Applied Sciences (Switzerland)*, **2022**, 12, 114	2.6	