

Jean J Chen

List of Publications by Year in descending order

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64
papers

2,697
citations

185998

28
h-index

205818

48
g-index

73
all docs

73
docs citations

73
times ranked

3825
citing authors

#	ARTICLE	IF	CITATIONS
1	Age-associated reductions in cerebral blood flow are independent from regional atrophy. <i>NeuroImage</i> , 2011, 55, 468-478.	2.1	309
2	Global Cerebral Oxidative Metabolism during Hypercapnia and Hypocapnia in Humans: Implications for BOLD fMRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 1094-1099.	2.4	144
3	BOLD-specific cerebral blood volume and blood flow changes during neuronal activation in humans. <i>NMR in Biomedicine</i> , 2009, 22, 1054-1062.	1.6	134
4	Mapping the end-tidal CO ₂ response function in the resting-state BOLD fMRI signal: Spatial specificity, test-retest reliability and effect of fMRI sampling rate. <i>NeuroImage</i> , 2015, 104, 266-277.	2.1	115
5	MRI measurement of the BOLD-specific flow-volume relationship during hypercapnia and hypocapnia in humans. <i>NeuroImage</i> , 2010, 53, 383-391.	2.1	113
6	Quantitative mapping of cerebrovascular reactivity using resting-state BOLD fMRI: Validation in healthy adults. <i>NeuroImage</i> , 2016, 138, 147-163.	2.1	84
7	Origins of the BOLD post-stimulus undershoot. <i>NeuroImage</i> , 2009, 46, 559-568.	2.1	83
8	Non-Gaussian water diffusion in aging white matter. <i>Neurobiology of Aging</i> , 2014, 35, 1412-1421.	1.5	80
9	Comparing cerebrovascular reactivity measured using BOLD and cerebral blood flow MRI: The effect of basal vascular tension on vasodilatory and vasoconstrictive reactivity. <i>NeuroImage</i> , 2015, 110, 110-123.	2.1	76
10	Re-examining age-related differences in white matter microstructure with free-water corrected diffusion tensor imaging. <i>Neurobiology of Aging</i> , 2018, 71, 161-170.	1.5	76
11	Characterizing Resting-State Brain Function Using Arterial Spin Labeling. <i>Brain Connectivity</i> , 2015, 5, 527-542.	0.8	75
12	MRI techniques to measure arterial and venous cerebral blood volume. <i>NeuroImage</i> , 2019, 187, 17-31.	2.1	75
13	Human whole blood T_2 relaxometry at 3 Tesla. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 249-254.	1.9	73
14	Hippocampal degeneration is associated with temporal and limbic gray matter/white matter tissue contrast in Alzheimer's disease. <i>NeuroImage</i> , 2011, 54, 1795-1802.	2.1	64
15	Metabolic and vascular origins of the BOLD effect: Implications for imaging pathology and resting-state brain function. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 231-246.	1.9	61
16	Physiological fluctuations in white matter are increased in Alzheimer's disease and correlate with neuroimaging and cognitive biomarkers. <i>Neurobiology of Aging</i> , 2016, 37, 12-18.	1.5	60
17	The resting-state fMRI arterial signal predicts differential blood transit time through the brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 1148-1160.	2.4	60
18	The Effect of Low-Frequency Physiological Correction on the Reproducibility and Specificity of Resting-State fMRI Metrics: Functional Connectivity, ALFF, and ReHo. <i>Frontiers in Neuroscience</i> , 2017, 11, 546.	1.4	55

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19	Functional MRI of brain physiology in aging and neurodegenerative diseases. <i>NeuroImage</i> , 2019, 187, 209-225.	2.1	55
20	Associations of Resting-State fMRI Functional Connectivity with Flow-BOLD Coupling and Regional Vasculature. <i>Brain Connectivity</i> , 2015, 5, 137-146.	0.8	54
21	Complex relationships between cerebral blood flow and brain atrophy in early Huntington's disease. <i>NeuroImage</i> , 2012, 59, 1043-1051.	2.1	52
22	Cerebral Blood Flow Measurement Using fMRI and PET: A Cross-Validation Study. <i>International Journal of Biomedical Imaging</i> , 2008, 2008, 1-12.	3.0	51
23	Dynamic and static contributions of the cerebrovasculature to the resting-state BOLD signal. <i>NeuroImage</i> , 2014, 84, 672-680.	2.1	51
24	Identifying Dysfunctional Cortex: Dissociable Effects of Stroke and Aging on Resting State Dynamics in MEG and fMRI. <i>Frontiers in Aging Neuroscience</i> , 2016, 8, 40.	1.7	51
25	The Relationship between Cortical Blood Flow and Sub-Cortical White-Matter Health across the Adult Age Span. <i>PLoS ONE</i> , 2013, 8, e56733.	1.1	51
26	The association between cerebrovascular reactivity and resting-state fMRI functional connectivity in healthy adults: The influence of basal carbon dioxide. <i>NeuroImage</i> , 2016, 132, 301-313.	2.1	46
27	The impact of partial-volume effects in dynamic susceptibility contrast magnetic resonance perfusion imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2005, 22, 390-399.	1.9	45
28	Intrinsic Frequencies of the Resting-State fMRI Signal: The Frequency Dependence of Functional Connectivity and the Effect of Mode Mixing. <i>Frontiers in Neuroscience</i> , 2019, 13, 900.	1.4	40
29	Characterizing the modulation of resting-state fMRI metrics by baseline physiology. <i>NeuroImage</i> , 2018, 173, 72-87.	2.1	36
30	The effects of music-supported therapy on motor, cognitive, and psychosocial functions in chronic stroke. <i>Annals of the New York Academy of Sciences</i> , 2018, 1423, 264-274.	1.8	31
31	Neural coupling between contralesional motor and frontoparietal networks correlates with motor ability in individuals with chronic stroke. <i>Journal of the Neurological Sciences</i> , 2018, 384, 21-29.	0.3	27
32	Increased exhalation to inhalation ratio during breathing enhances high-frequency heart rate variability in healthy adults. <i>Psychophysiology</i> , 2021, 58, e13905.	1.2	23
33	A robust method for suppressing motion-induced coil sensitivity variations during prospective correction of head motion in fMRI. <i>Magnetic Resonance Imaging</i> , 2016, 34, 1206-1219.	1.0	22
34	The association between resting-state functional magnetic resonance imaging and aortic pulse-wave velocity in healthy adults. <i>Human Brain Mapping</i> , 2020, 41, 2121-2135.	1.9	22
35	Spin-Echo Resting-State Functional Connectivity in High-Susceptibility Regions: Accuracy, Reliability, and the Impact of Physiological Noise. <i>Brain Connectivity</i> , 2016, 6, 283-297.	0.8	20
36	The Role of Cerebrovascular-Reactivity Mapping in Functional MRI: Calibrated fMRI and Resting-State fMRI. <i>Frontiers in Physiology</i> , 2021, 12, 657362.	1.3	20

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37	Comparison of outcomes of conventional Wavelight®; Allegretto Wave®; and Technolas®; excimer lasers in myopic laser in situ keratomileusis. <i>Clinical Ophthalmology</i> , 2012, 6, 1159.	0.9	19
38	Cerebrovascular-Reactivity Mapping Using MRI: Considerations for Alzheimer's Disease. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 170.	1.7	19
39	Controlling for the effect of arterial-CO2 fluctuations in resting-state fMRI: Comparing end-tidal CO2 clamping and retroactive CO2 correction. <i>NeuroImage</i> , 2020, 216, 116874.	2.1	18
40	Advantages of frequency-domain modeling in dynamic-susceptibility contrast magnetic resonance cerebral blood flow quantification. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 700-707.	1.9	17
41	Vascular origins of low-frequency oscillations in the cerebrospinal fluid signal in resting-state fMRI: Interpretation using photoplethysmography. <i>Human Brain Mapping</i> , 2021, 42, 2606-2622.	1.9	16
42	Variability in stroke motor outcome is explained by structural and functional integrity of the motor system. <i>Scientific Reports</i> , 2018, 8, 9480.	1.6	16
43	Reassessing the clinical efficacy of two MR quantitative DSC PWI CBF algorithms following cross-calibration with PET images. <i>Physics in Medicine and Biology</i> , 2005, 50, 1251-1263.	1.6	14
44	Interactions between head motion and coil sensitivity in accelerated fMRI. <i>Journal of Neuroscience Methods</i> , 2016, 270, 46-60.	1.3	14
45	Orthogonal moment diffusion tensor decomposition reveals age-related degeneration patterns in complex fiber architecture. <i>Neurobiology of Aging</i> , 2021, 101, 150-159.	1.5	13
46	DKI enhances the sensitivity and interpretability of age-related DTI patterns in the white matter of UK biobank participants. <i>Neurobiology of Aging</i> , 2022, 115, 39-49.	1.5	12
47	Brain structure and function in people recovering from COVID-19 after hospital discharge or self-isolation: a longitudinal observational study protocol. <i>CMAJ Open</i> , 2021, 9, E1114-E1119.	1.1	11
48	The neuronal associations of respiratory-volume variability in the resting state. <i>NeuroImage</i> , 2021, 230, 117783.	2.1	9
49	Functional Connectivity Between the Posterior Default Mode Network and Parahippocampal Gyrus Is Disrupted in Older Adults with Subjective Cognitive Decline and Correlates with Subjective Memory Ability. <i>Journal of Alzheimer's Disease</i> , 2021, 82, 435-445.	1.2	9
50	Mapping oxidative metabolism in the human brain with calibrated fMRI in health and disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 1139-1162.	2.4	9
51	Resting-state functional magnetic resonance imaging signal variations in aging: The role of neural activity. <i>Human Brain Mapping</i> , 2022, 43, 2880-2897.	1.9	9
52	Prefrontal GABA Levels Correlate with Memory in Older Adults at High Risk for Alzheimer's Disease. <i>Cerebral Cortex Communications</i> , 2020, 1, tgaa022.	0.7	8
53	Simultaneous Multislice Resting-State Functional Magnetic Resonance Imaging at 3 Tesla: Slice-Acceleration-Related Biases in Physiological Effects. <i>Brain Connectivity</i> , 2018, 8, 82-93.	0.8	7
54	Characterizing contrast origins and noise contribution in spin-echo EPI BOLD at 3T. <i>Magnetic Resonance Imaging</i> , 2019, 57, 328-336.	1.0	6

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55	Fornix Integrity Is Differently Associated With Cognition in Healthy Aging and Non-amnestic Mild Cognitive Impairment: A Pilot Diffusion Tensor Imaging Study in Thai Older Adults. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 594002.	1.7	6
56	Performance of Temporal and Spatial Independent Component Analysis in Identifying and Removing Low-Frequency Physiological and Motion Effects in Resting-State fMRI. <i>Frontiers in Neuroscience</i> , 0, 16, .	1.4	5
57	Multi-phase passband balanced SSFP fMRI with 50 ms sampling rate at 7 Tesla enables high precision in resolving 100 ms neuronal events. <i>Magnetic Resonance Imaging</i> , 2017, 35, 20-28.	1.0	4
58	Editorial: Origins of the Resting-State fMRI Signal. <i>Frontiers in Neuroscience</i> , 2020, 14, 594990.	1.4	3
59	Suppressing Respiration Effects when Geometric Distortion Is Corrected Dynamically by Phase Labeling for Additional Coordinate Encoding (PLACE) during Functional MRI. <i>PLoS ONE</i> , 2016, 11, e0156750.	1.1	2
60	Insights from auditory cortex for GABA+ magnetic resonance spectroscopy studies of aging. <i>European Journal of Neuroscience</i> , 2022, 56, 4425-4444.	1.2	2
61	Partial volume effect in quantitative magnetic resonance perfusion imaging. , 2004, 2004, 1132-5.		1
62	Functional Magnetic Resonance Imaging. , 2019, , 533-544.		1
63	Central auditory processing in adults with chronic stroke without hearing loss: A magnetoencephalography study. <i>Clinical Neurophysiology</i> , 2020, 131, 1102-1118.	0.7	1
64	The Role of Cerebrovascular Reactivity Mapping in Functional MRI: Calibrated fMRI and Resting-State fMRI. <i>Neuroinformatics</i> , 2022, , 75-88.	0.2	0