

# Zirui Huang

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

2,213  
citations

201385

27  
h-index

243296

44  
g-index

61  
all docs

61  
docs citations

61  
times ranked

2172  
citing authors

#	ARTICLE	IF	CITATIONS
1	Anterior precuneus related to the recovery of consciousness. <i>NeuroImage: Clinical</i> , 2022, 33, 102951.	1.4	12
2	Early visual exposure primes future cross-modal specialization of the fusiform face area in tactile face processing in the blind. <i>NeuroImage</i> , 2022, 253, 119062.	2.1	2
3	Are intrinsic neural timescales related to sensory processing? Evidence from abnormal behavioral states. <i>NeuroImage</i> , 2021, 226, 117579.	2.1	60
4	Higher-order sensorimotor circuit of the brain's global network supports human consciousness. <i>NeuroImage</i> , 2021, 231, 117850.	2.1	23
5	Anterior insula regulates brain network transitions that gate conscious access. <i>Cell Reports</i> , 2021, 35, 109081.	2.9	46
6	Asymmetric neural dynamics characterize loss and recovery of consciousness. <i>NeuroImage</i> , 2021, 236, 118042.	2.1	20
7	Criticality Creates a Functional Platform for Network Transitions Between Internal and External Processing Modes in the Human Brain. <i>Frontiers in Systems Neuroscience</i> , 2021, 15, 657809.	1.2	9
8	Back in Time and Space. <i>Physics of Life Reviews</i> , 2020, 33, 58-60.	1.5	0
9	Pharmacologically informed machine learning approach for identifying pathological states of unconsciousness via resting-state fMRI. <i>NeuroImage</i> , 2020, 206, 116316.	2.1	31
10	Rest-task modulation of fMRI-derived global signal topography is mediated by transient coactivation patterns. <i>PLoS Biology</i> , 2020, 18, e3000733.	2.6	41
11	Temporal circuit of macroscale dynamic brain activity supports human consciousness. <i>Science Advances</i> , 2020, 6, eaaz0087.	4.7	119
12	Brain and behaviour in post-acute stroke: Reduction in seeking and posterior cingulate neuronal variability. <i>Journal of Clinical and Experimental Neuropsychology</i> , 2020, 42, 584-601.	0.8	2
13	Altered Global Brain Signal during Physiologic, Pharmacologic, and Pathologic States of Unconsciousness in Humans and Rats. <i>Anesthesiology</i> , 2020, 132, 1392-1406.	1.3	45
14	Title is missing!. , 2020, 18, e3000733.		0
15	Title is missing!. , 2020, 18, e3000733.		0
16	Title is missing!. , 2020, 18, e3000733.		0
17	Title is missing!. , 2020, 18, e3000733.		0
18	Title is missing!. , 2020, 18, e3000733.		0

#	ARTICLE	IF	CITATIONS
19	Title is missing!. , 2020, 18, e3000733.		0
20	Altered Static and Temporal Dynamic Amplitude of Low-Frequency Fluctuations in the Background Network During Working Memory States in Mild Cognitive Impairment. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 152.	1.7	22
21	Spontaneous Brain Activity Predicts Task-Evoked Activity During Animate Versus Inanimate Touch. <i>Cerebral Cortex</i> , 2019, 29, 4628-4645.	1.6	43
22	Neuronal variability of Resting State activity in Eating Disorders: increase and decoupling in Ventral Attention Network and relation with clinical symptoms. <i>European Psychiatry</i> , 2019, 55, 10-17.	0.1	16
23	The temporal signature of self: Temporal measures of resting-state EEG predict self-consciousness. <i>Human Brain Mapping</i> , 2019, 40, 789-803.	1.9	76
24	Altered Global Signal Topography and Its Different Regional Localization in Motor Cortex and Hippocampus in Mania and Depression. <i>Schizophrenia Bulletin</i> , 2019, 45, 902-910.	2.3	50
25	Breakdown in the temporal and spatial organization of spontaneous brain activity during general anesthesia. <i>Human Brain Mapping</i> , 2018, 39, 2035-2046.	1.9	57
26	Timescales of Intrinsic BOLD Signal Dynamics and Functional Connectivity in Pharmacologic and Neuropathologic States of Unconsciousness. <i>Journal of Neuroscience</i> , 2018, 38, 2304-2317.	1.7	66
27	Vascular-metabolic and GABAergic Inhibitory Correlates of Neural Variability Modulation. A Combined fMRI and PET Study. <i>Neuroscience</i> , 2018, 379, 142-151.	1.1	8
28	Topographic Reconfiguration of Local and Shared Information in Anesthetic-Induced Unconsciousness. <i>Entropy</i> , 2018, 20, 518.	1.1	4
29	Brain imaging reveals covert consciousness during behavioral unresponsiveness induced by propofol. <i>Scientific Reports</i> , 2018, 8, 13195.	1.6	27
30	Disrupted neural variability during propofol-induced sedation and unconsciousness. <i>Human Brain Mapping</i> , 2018, 39, 4533-4544.	1.9	37
31	Early visual exposure to faces is sufficient and necessary for prepping the FFA for future specialization in tactile face processing in the blind. <i>Journal of Vision</i> , 2018, 18, 708.	0.1	0
32	Is There a Nonadditive Interaction Between Spontaneous and Evoked Activity? Phase-Dependence and Its Relation to the Temporal Structure of Scale-Free Brain Activity. <i>Cerebral Cortex</i> , 2017, 27, bhv288.	1.6	92
33	How spontaneous brain activity and narcissistic features shape social interaction. <i>Scientific Reports</i> , 2017, 7, 9986.	1.6	44
34	How do the brain's time and space mediate consciousness and its different dimensions? Temporo-spatial theory of consciousness (TTC). <i>Neuroscience and Biobehavioral Reviews</i> , 2017, 80, 630-645.	2.9	158
35	A Neural "Tuning Curve" for Multisensory Experience and Cognitive-Perceptual Schizotypy. <i>Schizophrenia Bulletin</i> , 2017, 43, 801-813.	2.3	48
36	Altered Distant Synchronization of Background Network in Mild Cognitive Impairment during an Executive Function Task. <i>Frontiers in Behavioral Neuroscience</i> , 2017, 11, 174.	1.0	4

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37	Thalamo-Sensorimotor Functional Connectivity Correlates with World Ranking of Olympic, Elite, and High Performance Athletes. <i>Neural Plasticity</i> , 2017, 2017, 1-10.	1.0	12
38	Association between Scale-Free Brain Dynamics and Behavioral Performance: Functional MRI Study in Resting State and Face Processing Task. <i>Behavioural Neurology</i> , 2017, 2017, 1-9.	1.1	6
39	Frequency-Dependent Brain Regional Homogeneity Alterations in Patients with Mild Cognitive Impairment during Working Memory State Relative to Resting State. <i>Frontiers in Aging Neuroscience</i> , 2016, 8, 60.	1.7	16
40	Interplay between Heightened Temporal Variability of Spontaneous Brain Activity and Task-Evoked Hyperactivation in the Blind. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 632.	1.0	7
41	Abnormal functional structural cingulum connectivity in mania: combined functional magnetic resonance imaging diffusion tensor imaging investigation in different phases of bipolar disorder. <i>Acta Psychiatrica Scandinavica</i> , 2016, 134, 339-349.	2.2	55
42	Contrasting variability patterns in the default mode and sensorimotor networks balance in bipolar depression and mania. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4824-4829.	3.3	205
43	The temporal structure of resting-state brain activity in the medial prefrontal cortex predicts self-consciousness. <i>Neuropsychologia</i> , 2016, 82, 161-170.	0.7	87
44	Spontaneous activity in default-mode network predicts ascription of self-relatedness to stimuli. <i>Social Cognitive and Affective Neuroscience</i> , 2016, 11, 693-702.	1.5	40
45	Decoupled temporal variability and signal synchronization of spontaneous brain activity in loss of consciousness: An fMRI study in anesthesia. <i>NeuroImage</i> , 2016, 124, 693-703.	2.1	79
46	Increase in glutamate/glutamine concentration in the medial prefrontal cortex during mental imagery: A combined functional mrs and fMRI study. <i>Human Brain Mapping</i> , 2015, 36, 3204-3212.	1.9	39
47	GABA <sub>A</sub> receptor deficits predict recovery in patients with disorders of consciousness: A preliminary multimodal [ <sup>11</sup> C]Flumazenil PET and fMRI study. <i>Human Brain Mapping</i> , 2015, 36, 3867-3877.	1.9	17
48	How are different neural networks related to consciousness?. <i>Annals of Neurology</i> , 2015, 78, 594-605.	2.8	102
49	Intertrial Variability in the Premotor Cortex Accounts for Individual Differences in Peripersonal Space. <i>Journal of Neuroscience</i> , 2015, 35, 16328-16339.	1.7	52
50	Functional connectivity and neuronal variability of resting state activity in bipolar disorder reduction and decoupling in anterior cortical midline structures. <i>Human Brain Mapping</i> , 2015, 36, 666-682.	1.9	107
51	Reduced Resting-State Functional Connectivity of the Somatosensory Cortex Predicts Psychopathological Symptoms in Women with Bulimia Nervosa. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 270.	1.0	37
52	The self and its resting state in consciousness: An investigation of the vegetative state. <i>Human Brain Mapping</i> , 2014, 35, 1997-2008.	1.9	83
53	Altered temporal variance and neural synchronization of spontaneous brain activity in anesthesia. <i>Human Brain Mapping</i> , 2014, 35, 5368-5378.	1.9	63
54	Using fMRI to decode true thoughts independent of intention to conceal. <i>NeuroImage</i> , 2014, 99, 80-92.	2.1	18

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55	Verbal memory retrieval engages visual cortex in musicians. <i>Neuroscience</i> , 2010, 168, 179-189.	1.1	22
56	Enhance fMRI Data Analysis by RAICAR. , 2009, , .		2