

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	Contrasting variability patterns in the default mode and sensorimotor networks balance in bipolar depression and mania. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4824-4829.	3.3	205
2	How do the brain's time and space mediate consciousness and its different dimensions? Temporo-spatial theory of consciousness (TTC). Neuroscience and Biobehavioral Reviews, 2017, 80, 630-645.	2.9	158
3	Temporal circuit of macroscale dynamic brain activity supports human consciousness. Science Advances, 2020, 6, eaaz0087.	4.7	119
4	Functional connectivity and neuronal variability of resting state activity in bipolar disorder—reduction and decoupling in anterior cortical midline structures. Human Brain Mapping, 2015, 36, 666-682.	1.9	107
5	How are different neural networks related to consciousness?. Annals of Neurology, 2015, 78, 594-605.	2.8	102
6	Is There a Nonadditive Interaction Between Spontaneous and Evoked Activity? Phase-Dependence and Its Relation to the Temporal Structure of Scale-Free Brain Activity. Cerebral Cortex, 2017, 27, bhv288.	1.6	92
7	The temporal structure of resting-state brain activity in the medial prefrontal cortex predicts self-consciousness. Neuropsychologia, 2016, 82, 161-170.	0.7	87
8	The self and its resting state in consciousness: An investigation of the vegetative state. Human Brain Mapping, 2014, 35, 1997-2008.	1.9	83
9	Decoupled temporal variability and signal synchronization of spontaneous brain activity in loss of consciousness: An fMRI study in anesthesia. NeuroImage, 2016, 124, 693-703.	2.1	79
10	The temporal signature of self: Temporal measures of resting-state EEG predict self-consciousness. Human Brain Mapping, 2019, 40, 789-803.	1.9	76
11	Timescales of Intrinsic BOLD Signal Dynamics and Functional Connectivity in Pharmacologic and Neuropathologic States of Unconsciousness. Journal of Neuroscience, 2018, 38, 2304-2317.	1.7	66
12	Altered temporal variance and neural synchronization of spontaneous brain activity in anesthesia. Human Brain Mapping, 2014, 35, 5368-5378.	1.9	63
13	Are intrinsic neural timescales related to sensory processing? Evidence from abnormal behavioral states. NeuroImage, 2021, 226, 117579.	2.1	60
14	Breakdown in the temporal and spatial organization of spontaneous brain activity during general anesthesia. Human Brain Mapping, 2018, 39, 2035-2046.	1.9	57
15	Abnormal functional-structural cingulum connectivity in mania: combined functional magnetic resonance imaging-diffusion tensor imaging investigation in different phases of bipolar disorder. Acta Psychiatrica Scandinavica, 2016, 134, 339-349.	2.2	55
16	Intertrial Variability in the Premotor Cortex Accounts for Individual Differences in Peripersonal Space. Journal of Neuroscience, 2015, 35, 16328-16339.	1.7	52
17	Altered Global Signal Topography and Its Different Regional Localization in Motor Cortex and Hippocampus in Mania and Depression. Schizophrenia Bulletin, 2019, 45, 902-910.	2.3	50
18	A Neural "Tuning Curve" for Multisensory Experience and Cognitive-Perceptual Schizotypy. Schizophrenia Bulletin, 2017, 43, 801-813.	2.3	48

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19	Anterior insula regulates brain network transitions that gate conscious access. <i>Cell Reports</i> , 2021, 35, 109081.	2.9	46
20	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
21	How spontaneous brain activity and narcissistic features shape social interaction. <i>Scientific Reports</i> , 2017, 7, 9986.	1.6	44
22	Spontaneous Brain Activity Predicts Task-Evoked Activity During Animate Versus Inanimate Touch. <i>Cerebral Cortex</i> , 2019, 29, 4628-4645.	1.6	43
23	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
24	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
25	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
26	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
27	Disrupted neural variability during propofol-induced sedation and unconsciousness. <i>Human Brain Mapping</i> , 2018, 39, 4533-4544.	1.9	37
28	Pharmacologically informed machine learning approach for identifying pathological states of unconsciousness via resting-state fMRI. <i>NeuroImage</i> , 2020, 206, 116316.	2.1	31
29	Brain imaging reveals covert consciousness during behavioral unresponsiveness induced by propofol. <i>Scientific Reports</i> , 2018, 8, 13195.	1.6	27
30	Higher-order sensorimotor circuit of the brain's global network supports human consciousness. <i>NeuroImage</i> , 2021, 231, 117850.	2.1	23
31	Verbal memory retrieval engages visual cortex in musicians. <i>Neuroscience</i> , 2010, 168, 179-189.	1.1	22
32	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
33	Asymmetric neural dynamics characterize loss and recovery of consciousness. <i>NeuroImage</i> , 2021, 236, 118042.	2.1	20
34	Using fMRI to decode true thoughts independent of intention to conceal. <i>NeuroImage</i> , 2014, 99, 80-92.	2.1	18
35	γ -GABA _A receptor deficits predict recovery in patients with disorders of consciousness: A preliminary multimodal [¹¹ C]Flumazenil PET and fMRI study. <i>Human Brain Mapping</i> , 2015, 36, 3867-3877.	1.9	17
36	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

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37	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
38	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
39	Anterior precuneus related to the recovery of consciousness. <i>NeuroImage: Clinical</i> , 2022, 33, 102951.	1.4	12
40	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
41	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
42	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
43	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
44	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
45	Topographic Reconfiguration of Local and Shared Information in Anesthetic-Induced Unconsciousness. <i>Entropy</i> , 2018, 20, 518.	1.1	4
46	Enhance fMRI Data Analysis by RAICAR. , 2009, , .		2
47	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
48	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
49	Back in Time and Space. <i>Physics of Life Reviews</i> , 2020, 33, 58-60.	1.5	0
50	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
51	Title is missing!. , 2020, 18, e3000733.		0
52	Title is missing!. , 2020, 18, e3000733.		0
53	Title is missing!. , 2020, 18, e3000733.		0
54	Title is missing!. , 2020, 18, e3000733.		0

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56	Title is missing!. , 2020, 18, e3000733.		0