

Biyu J He

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

5,902
citations

201674

27
h-index

223800

46
g-index

61
all docs

61
docs citations

61
times ranked

6330
citing authors

#	ARTICLE	IF	CITATIONS
1	Breakdown of Functional Connectivity in Frontoparietal Networks Underlies Behavioral Deficits in Spatial Neglect. <i>Neuron</i> , 2007, 53, 905-918.	8.1	851
2	The Temporal Structures and Functional Significance of Scale-free Brain Activity. <i>Neuron</i> , 2010, 66, 353-369.	8.1	831
3	Electrophysiological correlates of the brain's intrinsic large-scale functional architecture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 16039-16044.	7.1	627
4	Scale-free brain activity: past, present, and future. <i>Trends in Cognitive Sciences</i> , 2014, 18, 480-487.	7.8	596
5	Scale-Free Properties of the Functional Magnetic Resonance Imaging Signal during Rest and Task. <i>Journal of Neuroscience</i> , 2011, 31, 13786-13795.	3.6	371
6	The fMRI signal, slow cortical potential and consciousness. <i>Trends in Cognitive Sciences</i> , 2009, 13, 302-309.	7.8	318
7	Loss of Resting Interhemispheric Functional Connectivity after Complete Section of the Corpus Callosum. <i>Journal of Neuroscience</i> , 2008, 28, 6453-6458.	3.6	268
8	Spontaneous and Task-Evoked Brain Activity Negatively Interact. <i>Journal of Neuroscience</i> , 2013, 33, 4672-4682.	3.6	244
9	Neuromodulation of Brain State and Behavior. <i>Annual Review of Neuroscience</i> , 2020, 43, 391-415.	10.7	151
10	A Behavioral Analysis of Spatial Neglect and its Recovery After Stroke. <i>Frontiers in Human Neuroscience</i> , 2011, 5, 29.	2.0	113
11	The role of impaired neuronal communication in neurological disorders. <i>Current Opinion in Neurology</i> , 2007, 20, 655-660.	3.6	112
12	Impaired and facilitated functional networks in temporal lobe epilepsy. <i>NeuroImage: Clinical</i> , 2013, 2, 862-872.	2.7	111
13	Interplay between functional connectivity and scale-free dynamics in intrinsic fMRI networks. <i>NeuroImage</i> , 2014, 95, 248-263.	4.2	107
14	Brain mechanisms for simple perception and bistable perception. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E3350-9.	7.1	103
15	Beyond Trial-Based Paradigms: Continuous Behavior, Ongoing Neural Activity, and Natural Stimuli. <i>Journal of Neuroscience</i> , 2018, 38, 7551-7558.	3.6	99
16	Task-Driven Activity Reduces the Cortical Activity Space of the Brain: Experiment and Whole-Brain Modeling. <i>PLoS Computational Biology</i> , 2015, 11, e1004445.	3.2	76
17	Spatiotemporal Dissociation of Brain Activity Underlying Subjective Awareness, Objective Performance and Confidence. <i>Journal of Neuroscience</i> , 2014, 34, 4382-4395.	3.6	68
18	Anatomical Correlates of Directional Hypokinesia in Patients with Hemispatial Neglect. <i>Journal of Neuroscience</i> , 2007, 27, 4045-4051.	3.6	65

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19	Task-evoked activity quenches neural correlations and variability across cortical areas. PLoS Computational Biology, 2020, 16, e1007983.	3.2	62
20	Spontaneous Neural Dynamics and Multi-scale Network Organization. Frontiers in Systems Neuroscience, 2016, 10, 7.	2.5	60
21	Average Is Optimal: An Inverted-U Relationship between Trial-to-Trial Brain Activity and Behavioral Performance. PLoS Computational Biology, 2013, 9, e1003348.	3.2	59
22	Initial-state-dependent, robust, transient neural dynamics encode conscious visual perception. PLoS Computational Biology, 2017, 13, e1005806.	3.2	58
23	Opportunities and challenges for a maturing science of consciousness. Nature Human Behaviour, 2019, 3, 104-107.	12.0	58
24	A dual role of prestimulus spontaneous neural activity in visual object recognition. Nature Communications, 2019, 10, 3910.	12.8	52
25	Volition and Action in the Human Brain: Processes, Pathologies, and Reasons. Journal of Neuroscience, 2017, 37, 10842-10847.	3.6	46
26	Modulating Conscious Movement Intention by Noninvasive Brain Stimulation and the Underlying Neural Mechanisms. Journal of Neuroscience, 2015, 35, 7239-7255.	3.6	45
27	Content-specific activity in frontoparietal and default-mode networks during prior-guided visual perception. ELife, 2018, 7, .	6.0	41
28	Random Recurrent Networks Near Criticality Capture the Broadband Power Distribution of Human ECoG Dynamics. Cerebral Cortex, 2018, 28, 3610-3622.	2.9	34
29	Neural dynamics of visual ambiguity resolution by perceptual prior. ELife, 2019, 8, .	6.0	31
30	Spectral signature and behavioral consequence of spontaneous shifts of pupil-linked arousal in human. ELife, 2021, 10, .	6.0	30
31	Cortical and subcortical signatures of conscious object recognition. Nature Communications, 2021, 12, 2930.	12.8	27
32	State-aware detection of sensory stimuli in the cortex of the awake mouse. PLoS Computational Biology, 2019, 15, e1006716.	3.2	25
33	Long-term priors influence visual perception through recruitment of long-range feedback. Nature Communications, 2021, 12, 6288.	12.8	24
34	Robust, Transient Neural Dynamics during Conscious Perception. Trends in Cognitive Sciences, 2018, 22, 563-565.	7.8	17
35	Neural Integration of Stimulus History Underlies Prediction for Naturalistically Evolving Sequences. Journal of Neuroscience, 2018, 38, 1541-1557.	3.6	14
36	A Gradient of Sharpening Effects by Perceptual Prior across the Human Cortical Hierarchy. Journal of Neuroscience, 2021, 41, 167-178.	3.6	14

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37	Scale-Free Neural and Physiological Dynamics in Naturalistic Stimuli Processing. ENeuro, 2016, 3, ENEURO.0191-16.2016.	1.9	14
38	Unconsciously elicited perceptual prior. Neuroscience of Consciousness, 2016, 2016, niw008.	2.6	13
39	State-related neural influences on fMRI connectivity estimation. NeuroImage, 2021, 244, 118590.	4.2	13
40	Scale-free dynamics and critical phenomena in cortical activity. Frontiers in Physiology, 2013, 4, 79.	2.8	9
41	A cross-modal investigation of the neural substrates for ongoing cognition. Frontiers in Psychology, 2014, 5, 945.	2.1	8
42	Response to Koch: Elaborations on the SCP hypothesis. Trends in Cognitive Sciences, 2009, 13, 368-369.	7.8	6
43	One-trial perceptual learning in the absence of conscious remembering and independent of the medial temporal lobe. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	6
44	Spontaneous perception: a framework for task-free, self-paced perception. Neuroscience of Consciousness, 2021, 2021, niab016.	2.6	5
45	Neural oscillations promoting perceptual stability and perceptual memory during bistable perception. Scientific Reports, 2022, 12, 2760.	3.3	5
46	Neural integration underlying naturalistic prediction flexibly adapts to varying sensory input rate. Nature Communications, 2021, 12, 2643.	12.8	4
47	Electrocorticogram (ECoG)., 2014, , 1-5.		0
48	A dual role of spontaneous neural activity in object recognition. Journal of Vision, 2019, 19, 171b.	0.3	0
49	Task-evoked activity quenches neural correlations and variability across cortical areas. , 2020, 16, e1007983.		0
50	Task-evoked activity quenches neural correlations and variability across cortical areas. , 2020, 16, e1007983.		0
51	Task-evoked activity quenches neural correlations and variability across cortical areas. , 2020, 16, e1007983.		0
52	Task-evoked activity quenches neural correlations and variability across cortical areas. , 2020, 16, e1007983.		0
53	Task-evoked activity quenches neural correlations and variability across cortical areas. , 2020, 16, e1007983.		0
54	Task-evoked activity quenches neural correlations and variability across cortical areas. , 2020, 16, e1007983.		0

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55	Electrocorticogram (ECoG)., 2022, , 1272-1276.		0