

# 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	Neural oscillations promoting perceptual stability and perceptual memory during bistable perception. Scientific Reports, 2022, 12, 2760.	3.3	5
2	Electrocorticogram (ECoG)., 2022, , 1272-1276.		0
3	A Gradient of Sharpening Effects by Perceptual Prior across the Human Cortical Hierarchy. Journal of Neuroscience, 2021, 41, 167-178.	3.6	14
4	Cortical and subcortical signatures of conscious object recognition. Nature Communications, 2021, 12, 2930.	12.8	27
5	Neural integration underlying naturalistic prediction flexibly adapts to varying sensory input rate. Nature Communications, 2021, 12, 2643.	12.8	4
6	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
7	Spectral signature and behavioral consequence of spontaneous shifts of pupil-linked arousal in human. ELife, 2021, 10, .	6.0	30
8	State-related neural influences on fMRI connectivity estimation. NeuroImage, 2021, 244, 118590.	4.2	13
9	Spontaneous perception: a framework for task-free, self-paced perception. Neuroscience of Consciousness, 2021, 2021, niab016.	2.6	5
10	Long-term priors influence visual perception through recruitment of long-range feedback. Nature Communications, 2021, 12, 6288.	12.8	24
11	Task-evoked activity quenches neural correlations and variability across cortical areas. PLoS Computational Biology, 2020, 16, e1007983.	3.2	62
12	Neuromodulation of Brain State and Behavior. Annual Review of Neuroscience, 2020, 43, 391-415.	10.7	151
13	Task-evoked activity quenches neural correlations and variability across cortical areas. , 2020, 16, e1007983.		0
14	Task-evoked activity quenches neural correlations and variability across cortical areas. , 2020, 16, e1007983.		0
15	Task-evoked activity quenches neural correlations and variability across cortical areas. , 2020, 16, e1007983.		0
16	Task-evoked activity quenches neural correlations and variability across cortical areas. , 2020, 16, e1007983.		0
17	Task-evoked activity quenches neural correlations and variability across cortical areas. , 2020, 16, e1007983.		0
18	Task-evoked activity quenches neural correlations and variability across cortical areas. , 2020, 16, e1007983.		0

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19	State-aware detection of sensory stimuli in the cortex of the awake mouse. <i>PLoS Computational Biology</i> , 2019, 15, e1006716.	3.2	25
20	A dual role of prestimulus spontaneous neural activity in visual object recognition. <i>Nature Communications</i> , 2019, 10, 3910.	12.8	52
21	Opportunities and challenges for a maturing science of consciousness. <i>Nature Human Behaviour</i> , 2019, 3, 104-107.	12.0	58
22	Neural dynamics of visual ambiguity resolution by perceptual prior. <i>ELife</i> , 2019, 8, .	6.0	31
23	A dual role of spontaneous neural activity in object recognition. <i>Journal of Vision</i> , 2019, 19, 171b.	0.3	0
24	Neural Integration of Stimulus History Underlies Prediction for Naturalistically Evolving Sequences. <i>Journal of Neuroscience</i> , 2018, 38, 1541-1557.	3.6	14
25	Random Recurrent Networks Near Criticality Capture the Broadband Power Distribution of Human ECoG Dynamics. <i>Cerebral Cortex</i> , 2018, 28, 3610-3622.	2.9	34
26	Beyond Trial-Based Paradigms: Continuous Behavior, Ongoing Neural Activity, and Natural Stimuli. <i>Journal of Neuroscience</i> , 2018, 38, 7551-7558.	3.6	99
27	Robust, Transient Neural Dynamics during Conscious Perception. <i>Trends in Cognitive Sciences</i> , 2018, 22, 563-565.	7.8	17
28	Content-specific activity in frontoparietal and default-mode networks during prior-guided visual perception. <i>ELife</i> , 2018, 7, .	6.0	41
29	Volition and Action in the Human Brain: Processes, Pathologies, and Reasons. <i>Journal of Neuroscience</i> , 2017, 37, 10842-10847.	3.6	46
30	Initial-state-dependent, robust, transient neural dynamics encode conscious visual perception. <i>PLoS Computational Biology</i> , 2017, 13, e1005806.	3.2	58
31	Spontaneous Neural Dynamics and Multi-scale Network Organization. <i>Frontiers in Systems Neuroscience</i> , 2016, 10, 7.	2.5	60
32	Unconsciously elicited perceptual prior. <i>Neuroscience of Consciousness</i> , 2016, 2016, niw008.	2.6	13
33	Scale-Free Neural and Physiological Dynamics in Naturalistic Stimuli Processing. <i>ENeuro</i> , 2016, 3, ENEURO.0191-16.2016.	1.9	14
34	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
35	Modulating Conscious Movement Intention by Noninvasive Brain Stimulation and the Underlying Neural Mechanisms. <i>Journal of Neuroscience</i> , 2015, 35, 7239-7255.	3.6	45
36	A cross-modal investigation of the neural substrates for ongoing cognition. <i>Frontiers in Psychology</i> , 2014, 5, 945.	2.1	8

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37	Spatiotemporal Dissociation of Brain Activity Underlying Subjective Awareness, Objective Performance and Confidence. <i>Journal of Neuroscience</i> , 2014, 34, 4382-4395.	3.6	68
38	Scale-free brain activity: past, present, and future. <i>Trends in Cognitive Sciences</i> , 2014, 18, 480-487.	7.8	596
39	Interplay between functional connectivity and scale-free dynamics in intrinsic fMRI networks. <i>NeuroImage</i> , 2014, 95, 248-263.	4.2	107
40	Electrocorticogram (ECoG)., 2014, , 1-5.		0
41	Impaired and facilitated functional networks in temporal lobe epilepsy. <i>NeuroImage: Clinical</i> , 2013, 2, 862-872.	2.7	111
42	Spontaneous and Task-Evoked Brain Activity Negatively Interact. <i>Journal of Neuroscience</i> , 2013, 33, 4672-4682.	3.6	244
43	Average Is Optimal: An Inverted-U Relationship between Trial-to-Trial Brain Activity and Behavioral Performance. <i>PLoS Computational Biology</i> , 2013, 9, e1003348.	3.2	59
44	Scale-free dynamics and critical phenomena in cortical activity. <i>Frontiers in Physiology</i> , 2013, 4, 79.	2.8	9
45	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
46	A Behavioral Analysis of Spatial Neglect and its Recovery After Stroke. <i>Frontiers in Human Neuroscience</i> , 2011, 5, 29.	2.0	113
47	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
48	The Temporal Structures and Functional Significance of Scale-free Brain Activity. <i>Neuron</i> , 2010, 66, 353-369.	8.1	831
49	Response to Koch: Elaborations on the SCP hypothesis. <i>Trends in Cognitive Sciences</i> , 2009, 13, 368-369.	7.8	6
50	The fMRI signal, slow cortical potential and consciousness. <i>Trends in Cognitive Sciences</i> , 2009, 13, 302-309.	7.8	318
51	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
52	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
53	Anatomical Correlates of Directional Hypokinesia in Patients with Hemispatial Neglect. <i>Journal of Neuroscience</i> , 2007, 27, 4045-4051.	3.6	65
54	The role of impaired neuronal communication in neurological disorders. <i>Current Opinion in Neurology</i> , 2007, 20, 655-660.	3.6	112

#	ARTICLE	IF	CITATIONS
55	Breakdown of Functional Connectivity in Frontoparietal Networks Underlies Behavioral Deficits in Spatial Neglect. <i>Neuron</i> , 2007, 53, 905-918.	8.1	851