

# Jian-Young Wu

## List of Publications by Year in descending order

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40  
papers

2,204  
citations

331670

21  
h-index

361022

35  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1558  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spiral Waves in Disinhibited Mammalian Neocortex. <i>Journal of Neuroscience</i> , 2004, 24, 9897-9902.	3.6	355
2	Spiral Wave Dynamics in Neocortex. <i>Neuron</i> , 2010, 68, 978-990.	8.1	253
3	Compression and Reflection of Visually Evoked Cortical Waves. <i>Neuron</i> , 2007, 55, 119-129.	8.1	214
4	Propagating Waves of Activity in the Neocortex: What They Are, What They Do. <i>Neuroscientist</i> , 2008, 14, 487-502.	3.5	205
5	Propagating Activation during Oscillations and Evoked Responses in Neocortical Slices. <i>Journal of Neuroscience</i> , 1999, 19, 5005-5015.	3.6	149
6	Dynamical Evolution of Spatiotemporal Patterns in Mammalian Middle Cortex. <i>Physical Review Letters</i> , 2007, 98, 178102.	7.8	108
7	Methods for Voltage-Sensitive Dye Imaging of Rat Cortical Activity With High Signal-to-Noise Ratio. <i>Journal of Neurophysiology</i> , 2007, 98, 502-512.	1.8	106
8	Voltage-sensitive dye imaging of population neuronal activity in cortical tissue. <i>Journal of Neuroscience Methods</i> , 2002, 115, 13-27.	2.5	80
9	Initiation of Spontaneous Epileptiform Activity in the Neocortical Slice. <i>Journal of Neurophysiology</i> , 1998, 80, 978-982.	1.8	66
10	Propagating Wave and Irregular Dynamics: Spatiotemporal Patterns of Cholinergic Theta Oscillations in Neocortex In Vitro. <i>Journal of Neurophysiology</i> , 2003, 90, 333-341.	1.8	62
11	Voltage-sensitive dyes for monitoring multineuronal activity in the intact central nervous system. <i>The Histochemical Journal</i> , 1998, 30, 169-187.	0.6	58
12	Spatiotemporal Properties of an Evoked Population Activity in Rat Sensory Cortical Slices. <i>Journal of Neurophysiology</i> , 2001, 86, 2461-2474.	1.8	51
13	Epileptiform Activity Can Be Initiated in Various Neocortical Layers: An Optical Imaging Study. <i>Journal of Neurophysiology</i> , 1999, 82, 1965-1973.	1.8	50
14	Inhibitory Parvalbumin Basket Cell Activity is Selectively Reduced during Hippocampal Sharp Wave Ripples in a Mouse Model of Familial Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2020, 40, 5116-5136.	3.6	47
15	Initiation of Spontaneous Epileptiform Events in the Rat Neocortex In Vivo. <i>Journal of Neurophysiology</i> , 2004, 91, 934-945.	1.8	44
16	Disruption of perineuronal nets increases the frequency of sharp wave ripple events. <i>Hippocampus</i> , 2018, 28, 42-52.	1.9	40
17	One neuron, many units?. <i>Nature</i> , 1990, 346, 108-109.	27.8	35
18	Crossmodal propagation of sensory-evoked and spontaneous activity in the rat neocortex. <i>Neuroscience Letters</i> , 2008, 431, 191-196.	2.1	35

#	ARTICLE	IF	CITATIONS
19	Measuring Sharp Waves and Oscillatory Population Activity With the Genetically Encoded Calcium Indicator GCaMP6f. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 274.	3.7	34
20	High-frequency head impact causes chronic synaptic adaptation and long-term cognitive impairment in mice. <i>Nature Communications</i> , 2021, 12, 2613.	12.8	29
21	Spatiotemporal Patterns of an Evoked Network Oscillation in Neocortical Slices: Coupled Local Oscillators. <i>Journal of Neurophysiology</i> , 2006, 96, 2528-2538.	1.8	28
22	Flow detection of propagating waves with temporospatial correlation of activity. <i>Journal of Neuroscience Methods</i> , 2011, 200, 207-218.	2.5	24
23	Optical methods can be utilized to map the location and activity of putative motor neurons and interneurons during rhythmic patterns of activity in the buccal ganglion of <i>Aplysia</i> . <i>Brain Research</i> , 1991, 564, 45-55.	2.2	21
24	Initiation and Propagation of Neuronal Coactivation in the Developing Hippocampus. <i>Journal of Neurophysiology</i> , 2006, 95, 552-561.	1.8	19
25	5-HT <sub>3a</sub> Receptors Modulate Hippocampal Gamma Oscillations by Regulating Synchrony of Parvalbumin-Positive Interneurons. <i>Cerebral Cortex</i> , 2016, 26, bhu209.	2.9	15
26	The role of inhibition in oscillatory wave dynamics in the cortex. <i>European Journal of Neuroscience</i> , 2012, 36, 2201-2212.	2.6	13
27	Increased matrix metalloproteinase levels and perineuronal net proteolysis in the HIV-infected brain; relevance to altered neuronal population dynamics. <i>Experimental Neurology</i> , 2020, 323, 113077.	4.1	12
28	Evidence for glycinergic GluN1/GluN3 NMDA receptors in hippocampal metaplasticity. <i>Neurobiology of Learning and Memory</i> , 2015, 125, 265-273.	1.9	11
29	Monitoring Population Membrane Potential Signals from Neocortex. <i>Advances in Experimental Medicine and Biology</i> , 2015, 859, 171-196.	1.6	10
30	Dynamical evolution of spatiotemporal patterns in mammalian middle cortex. <i>BMC Neuroscience</i> , 2007, 8, .	1.9	7
31	Low-intensity electric fields induce two distinct response components in neocortical neuronal populations. <i>Journal of Neurophysiology</i> , 2014, 112, 2446-2456.	1.8	7
32	Fast Multisite Optical Measurement of Membrane Potential, with Two Examples. , 1999, , 222-237.		5
33	â€Blueâ€™ voltage-sensitive dyes for studying spatiotemporal dynamics in the brain: visualizing cortical waves. <i>Neurophotonics</i> , 2017, 4, 031207.	3.3	4
34	Emergence of dominant initiation sites for interictal spikes in rat neocortex. <i>Journal of Neurophysiology</i> , 2015, 114, 3315-3325.	1.8	3
35	Preparing Viable Hippocampal Slices from Adult Mice for the Study of Sharp Wave-ripples. <i>Bio-protocol</i> , 2020, 10, e3771.	0.4	2
36	Monitoring Population Membrane Potential Signals from Neocortex. , 2010, , 71-81.		1

#	ARTICLE	IF	CITATIONS
37	Transcranial Alternating Current Stimulation (tACS) as a Treatment for Insomnia. Canadian Journal of Neurological Sciences, 2023, 50, 446-449.	0.5	1
38	Now single spines: monitoring neuronal membrane potential with submicron and submillisecond resolution. Journal of Physiology, 2010, 588, 1191-1192.	2.9	0
39	In Vivo Dynamics of the Visual Cortex Measured with Voltage Sensitive Dyes. , 2009, , 177-221.		0
40	Transcallosal Pathway of Whisker Information Between Rat Primary Somatosensory Cortices*. Progress in Biochemistry and Biophysics, 2012, 39, 335-343.	0.3	0