

Jian-Young Wu

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Transcranial Alternating Current Stimulation (tACS) as a Treatment for Insomnia. Canadian Journal of Neurological Sciences, 2023, 50, 446-449. | 0.5 | 1 |
| 2 | High-frequency head impact causes chronic synaptic adaptation and long-term cognitive impairment in mice. Nature Communications, 2021, 12, 2613. | 12.8 | 29 |
| 3 | Increased matrix metalloproteinase levels and perineuronal net proteolysis in the HIV-infected brain; relevance to altered neuronal population dynamics. Experimental Neurology, 2020, 323, 113077. | 4.1 | 12 |
| 4 | Inhibitory Parvalbumin Basket Cell Activity is Selectively Reduced during Hippocampal Sharp Wave Ripples in a Mouse Model of Familial Alzheimer's Disease. Journal of Neuroscience, 2020, 40, 5116-5136. | 3.6 | 47 |
| 5 | Preparing Viable Hippocampal Slices from Adult Mice for the Study of Sharp Wave-ripples. Bio-protocol, 2020, 10, e3771. | 0.4 | 2 |
| 6 | Measuring Sharp Waves and Oscillatory Population Activity With the Genetically Encoded Calcium Indicator GCaMP6f. Frontiers in Cellular Neuroscience, 2019, 13, 274. | 3.7 | 34 |
| 7 | Disruption of perineuronal nets increases the frequency of sharp wave ripple events. Hippocampus, 2018, 28, 42-52. | 1.9 | 40 |
| 8 | â€˜Blueâ€™™ voltage-sensitive dyes for studying spatiotemporal dynamics in the brain: visualizing cortical waves. Neurophotonics, 2017, 4, 031207. | 3.3 | 4 |
| 9 | 5-HT3a Receptors Modulate Hippocampal Gamma Oscillations by Regulating Synchrony of Parvalbumin-Positive Interneurons. Cerebral Cortex, 2016, 26, bhu209. | 2.9 | 15 |
| 10 | Emergence of dominant initiation sites for interictal spikes in rat neocortex. Journal of Neurophysiology, 2015, 114, 3315-3325. | 1.8 | 3 |
| 11 | Evidence for glycinergic GluN1/GluN3 NMDA receptors in hippocampal metaplasticity. Neurobiology of Learning and Memory, 2015, 125, 265-273. | 1.9 | 11 |
| 12 | Monitoring Population Membrane Potential Signals from Neocortex. Advances in Experimental Medicine and Biology, 2015, 859, 171-196. | 1.6 | 10 |
| 13 | Low-intensity electric fields induce two distinct response components in neocortical neuronal populations. Journal of Neurophysiology, 2014, 112, 2446-2456. | 1.8 | 7 |
| 14 | The role of inhibition in oscillatory wave dynamics in the cortex. European Journal of Neuroscience, 2012, 36, 2201-2212. | 2.6 | 13 |
| 15 | Transcallosal Pathway of Whisker Information Between Rat Primary Somatosensory Cortices*. Progress in Biochemistry and Biophysics, 2012, 39, 335-343. | 0.3 | 0 |
| 16 | Flow detection of propagating waves with temporospatial correlation of activity. Journal of Neuroscience Methods, 2011, 200, 207-218. | 2.5 | 24 |
| 17 | Now single spines: monitoring neuronal membrane potential with submicron and submillisecond resolution. Journal of Physiology, 2010, 588, 1191-1192. | 2.9 | 0 |
| 18 | Spiral Wave Dynamics in Neocortex. Neuron, 2010, 68, 978-990. | 8.1 | 253 |

| # | ARTICLE | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Monitoring Population Membrane Potential Signals from Neocortex. , 2010, , 71-81. | | 1 |
| 20 | In Vivo Dynamics of the Visual Cortex Measured with Voltage Sensitive Dyes. , 2009, , 177-221. | | 0 |
| 21 | Crossmodal propagation of sensory-evoked and spontaneous activity in the rat neocortex. Neuroscience Letters, 2008, 431, 191-196. | 2.1 | 35 |
| 22 | Propagating Waves of Activity in the Neocortex: What They Are, What They Do. Neuroscientist, 2008, 14, 487-502. | 3.5 | 205 |
| 23 | Dynamical Evolution of Spatiotemporal Patterns in Mammalian Middle Cortex. Physical Review Letters, 2007, 98, 178102. | 7.8 | 108 |
| 24 | Compression and Reflection of Visually Evoked Cortical Waves. Neuron, 2007, 55, 119-129. | 8.1 | 214 |
| 25 | Methods for Voltage-Sensitive Dye Imaging of Rat Cortical Activity With High Signal-to-Noise Ratio. Journal of Neurophysiology, 2007, 98, 502-512. | 1.8 | 106 |
| 26 | Dynamical evolution of spatiotemporal patterns in mammalian middle cortex. BMC Neuroscience, 2007, 8, . | 1.9 | 7 |
| 27 | Spatiotemporal Patterns of an Evoked Network Oscillation in Neocortical Slices: Coupled Local Oscillators. Journal of Neurophysiology, 2006, 96, 2528-2538. | 1.8 | 28 |
| 28 | Initiation and Propagation of Neuronal Coactivation in the Developing Hippocampus. Journal of Neurophysiology, 2006, 95, 552-561. | 1.8 | 19 |
| 29 | Initiation of Spontaneous Epileptiform Events in the Rat Neocortex In Vivo. Journal of Neurophysiology, 2004, 91, 934-945. | 1.8 | 44 |
| 30 | Spiral Waves in Disinhibited Mammalian Neocortex. Journal of Neuroscience, 2004, 24, 9897-9902. | 3.6 | 355 |
| 31 | Propagating Wave and Irregular Dynamics: Spatiotemporal Patterns of Cholinergic Theta Oscillations in Neocortex In Vitro. Journal of Neurophysiology, 2003, 90, 333-341. | 1.8 | 62 |
| 32 | Voltage-sensitive dye imaging of population neuronal activity in cortical tissue. Journal of Neuroscience Methods, 2002, 115, 13-27. | 2.5 | 80 |
| 33 | Spatiotemporal Properties of an Evoked Population Activity in Rat Sensory Cortical Slices. Journal of Neurophysiology, 2001, 86, 2461-2474. | 1.8 | 51 |
| 34 | Propagating Activation during Oscillations and Evoked Responses in Neocortical Slices. Journal of Neuroscience, 1999, 19, 5005-5015. | 3.6 | 149 |
| 35 | Epileptiform Activity Can Be Initiated in Various Neocortical Layers: An Optical Imaging Study. Journal of Neurophysiology, 1999, 82, 1965-1973. | 1.8 | 50 |
| 36 | Fast Multisite Optical Measurement of Membrane Potential, with Two Examples. , 1999, , 222-237. | | 5 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | 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 |
| 38 | Initiation of Spontaneous Epileptiform Activity in the Neocortical Slice. <i>Journal of Neurophysiology</i> , 1998, 80, 978-982. | 1.8 | 66 |
| 39 | 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 |
| 40 | One neuron, many units?. <i>Nature</i> , 1990, 346, 108-109. | 27.8 | 35 |