

Jessica A Cardin

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

7,004
citations

172386

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h-index

377752

34
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48
all docs

48
docs citations

48
times ranked

8467
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | The Logic of Developing Neocortical Circuits in Health and Disease. <i>Journal of Neuroscience</i> , 2021, 41, 813-822. | 1.7 | 20 |
| 2 | Simultaneous mesoscopic and two-photon imaging of neuronal activity in cortical circuits. <i>Nature Methods</i> , 2020, 17, 107-113. | 9.0 | 102 |
| 3 | Mechanisms underlying gain modulation in the cortex. <i>Nature Reviews Neuroscience</i> , 2020, 21, 80-92. | 4.9 | 168 |
| 4 | Up and Down States of Cortical Neurons in Focal Limbic Seizures. <i>Cerebral Cortex</i> , 2020, 30, 3074-3086. | 1.6 | 8 |
| 5 | Mesoscopic Imaging: Shining a Wide Light on Large-Scale Neural Dynamics. <i>Neuron</i> , 2020, 108, 33-43. | 3.8 | 67 |
| 6 | Simultaneous cortex-wide fluorescence Ca ²⁺ imaging and whole-brain fMRI. <i>Nature Methods</i> , 2020, 17, 1262-1271. | 9.0 | 111 |
| 7 | Activation of Distinct Channelrhodopsin Variants Engages Different Patterns of Network Activity. <i>ENeuro</i> , 2020, 7, ENEURO.0222-18.2019. | 0.9 | 13 |
| 8 | Developmental loss of MeCP2 from VIP interneurons impairs cortical function and behavior. <i>ELife</i> , 2020, 9, . | 2.8 | 40 |
| 9 | Functional flexibility in cortical circuits. <i>Current Opinion in Neurobiology</i> , 2019, 58, 175-180. | 2.0 | 30 |
| 10 | Inhibitory Interneurons Regulate Temporal Precision and Correlations in Cortical Circuits. <i>Trends in Neurosciences</i> , 2018, 41, 689-700. | 4.2 | 172 |
| 11 | Altered hippocampal interneuron activity precedes ictal onset. <i>ELife</i> , 2018, 7, . | 2.8 | 59 |
| 12 | Developmental Dysfunction of VIP Interneurons Impairs Cortical Circuits. <i>Neuron</i> , 2017, 95, 884-895.e9. | 3.8 | 123 |
| 13 | Sensation during Active Behaviors. <i>Journal of Neuroscience</i> , 2017, 37, 10826-10834. | 1.7 | 82 |
| 14 | Snapshots of the Brain in Action: Local Circuit Operations through the Lens of β Oscillations. <i>Journal of Neuroscience</i> , 2016, 36, 10496-10504. | 1.7 | 83 |
| 15 | More than meets the eye. <i>Nature Neuroscience</i> , 2016, 19, 984-986. | 7.1 | 0 |
| 16 | Projection-Specific Visual Feature Encoding by Layer 5 Cortical Subnetworks. <i>Cell Reports</i> , 2016, 14, 2538-2545. | 2.9 | 74 |
| 17 | Optogenetic stimulation of cholinergic brainstem neurons during focal limbic seizures: Effects on cortical physiology. <i>Epilepsia</i> , 2015, 56, e198-e202. | 2.6 | 37 |
| 18 | Arousal and Locomotion Make Distinct Contributions to Cortical Activity Patterns and Visual Encoding. <i>Neuron</i> , 2015, 86, 740-754. | 3.8 | 676 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Waking State: Rapid Variations Modulate Neural and Behavioral Responses. <i>Neuron</i> , 2015, 87, 1143-1161. | 3.8 | 648 |
| 20 | Optogenetics: 10 years after Chr2 in neurons—views from the community. <i>Nature Neuroscience</i> , 2015, 18, 1202-1212. | 7.1 | 122 |
| 21 | Noninvasive optical inhibition with a red-shifted microbial rhodopsin. <i>Nature Neuroscience</i> , 2014, 17, 1123-1129. | 7.1 | 480 |
| 22 | Optical Neural Interfaces. <i>Annual Review of Biomedical Engineering</i> , 2014, 16, 103-129. | 5.7 | 170 |
| 23 | Dissecting local circuits in vivo: Integrated optogenetic and electrophysiology approaches for exploring inhibitory regulation of cortical activity. <i>Journal of Physiology (Paris)</i> , 2012, 106, 104-111. | 2.1 | 47 |
| 24 | Targeted optogenetic stimulation and recording of neurons in vivo using cell-type-specific expression of Channelrhodopsin-2. <i>Nature Protocols</i> , 2010, 5, 247-254. | 5.5 | 477 |
| 25 | Computational Modeling of Distinct Neocortical Oscillations Driven by Cell-Type Selective Optogenetic Drive: Separable Resonant Circuits Controlled by Low-Threshold Spiking and Fast-Spiking Interneurons. <i>Frontiers in Human Neuroscience</i> , 2010, 4, 198. | 1.0 | 76 |
| 26 | Cellular Mechanisms of Temporal Sensitivity in Visual Cortex Neurons. <i>Journal of Neuroscience</i> , 2010, 30, 3652-3662. | 1.7 | 55 |
| 27 | Neocortical Interneurons: From Diversity, Strength. <i>Cell</i> , 2010, 142, 184-188. | 13.5 | 95 |
| 28 | Driving fast-spiking cells induces gamma rhythm and controls sensory responses. <i>Nature</i> , 2009, 459, 663-667. | 13.7 | 2,250 |
| 29 | Cellular Mechanisms Underlying Stimulus-Dependent Gain Modulation in Primary Visual Cortex Neurons In Vivo. <i>Neuron</i> , 2008, 59, 150-160. | 3.8 | 71 |
| 30 | Stimulus Feature Selectivity in Excitatory and Inhibitory Neurons in Primary Visual Cortex. <i>Journal of Neuroscience</i> , 2007, 27, 10333-10344. | 1.7 | 165 |
| 31 | Sensorimotor Nucleus Nif Is Necessary for Auditory Processing But Not Vocal Motor Output in the Avian Song System. <i>Journal of Neurophysiology</i> , 2005, 93, 2157-2166. | 0.9 | 62 |
| 32 | Stimulus-Dependent \hat{A} (30-50 Hz) Oscillations in Simple and Complex Fast Rhythmic Bursting Cells in Primary Visual Cortex. <i>Journal of Neuroscience</i> , 2005, 25, 5339-5350. | 1.7 | 78 |
| 33 | Auditory Responses in Multiple Sensorimotor Song System Nuclei Are Co-Modulated by Behavioral State. <i>Journal of Neurophysiology</i> , 2004, 91, 2148-2163. | 0.9 | 90 |
| 34 | Noradrenergic Inputs Mediate State Dependence of Auditory Responses in the Avian Song System. <i>Journal of Neuroscience</i> , 2004, 24, 7745-7753. | 1.7 | 96 |
| 35 | Song System Auditory Responses Are Stable and Highly Tuned During Sedation, Rapidly Modulated and Unselective During Wakefulness, and Suppressed By Arousal. <i>Journal of Neurophysiology</i> , 2003, 90, 2884-2899. | 0.9 | 108 |