

Alex C Kwan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8219458/publications.pdf>

Version: 2024-02-01

32
papers

2,349
citations

394421

19
h-index

434195

31
g-index

43
all docs

43
docs citations

43
times ranked

2797
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Fast modulation of visual perception by basal forebrain cholinergic neurons. <i>Nature Neuroscience</i> , 2013, 16, 1857-1863. | 14.8 | 489 |
| 2 | Psilocybin induces rapid and persistent growth of dendritic spines in frontal cortex in <i>Â</i> vivo. <i>Neuron</i> , 2021, 109, 2535-2544.e4. | 8.1 | 214 |
| 3 | Secondary Motor Cortex: Where <i>Â</i> ~Sensory <i>Â</i> TM Meets <i>Â</i> ~Motor <i>Â</i> TM in the Rodent Frontal Cortex. <i>Trends in Neurosciences</i> , 2017, 40, 181-193. | 8.6 | 199 |
| 4 | Electrophysiological Characterization of V2a Interneurons and Their Locomotor-Related Activity in the Neonatal Mouse Spinal Cord. <i>Journal of Neuroscience</i> , 2010, 30, 170-182. | 3.6 | 139 |
| 5 | Ketamine disinhibits dendrites and enhances calcium signals in prefrontal dendritic spines. <i>Nature Communications</i> , 2020, 11, 72. | 12.8 | 128 |
| 6 | Dissection of Cortical Microcircuits by Single-Neuron Stimulation In <i>Â</i> vivo. <i>Current Biology</i> , 2012, 22, 1459-1467. | 3.9 | 113 |
| 7 | Longitudinal Effects of Ketamine on Dendritic Architecture <i>in Vivo</i> in the Mouse Medial Frontal Cortex. <i>ENeuro</i> , 2016, 3, ENEURO.0133-15.2016. | 1.9 | 107 |
| 8 | Interneuron subtypes and orientation tuning. <i>Nature</i> , 2014, 508, E1-E2. | 27.8 | 96 |
| 9 | Fast and slow transitions in frontal ensemble activity during flexible sensorimotor behavior. <i>Nature Neuroscience</i> , 2016, 19, 1234-1242. | 14.8 | 96 |
| 10 | Optical visualization of Alzheimer ^Â s pathology via multiphoton-excited intrinsic fluorescence and second harmonic generation. <i>Optics Express</i> , 2009, 17, 3679. | 3.4 | 94 |
| 11 | Polarized microtubule arrays in apical dendrites and axons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 11370-11375. | 7.1 | 89 |
| 12 | Activity of Hb9 Interneurons during Fictive Locomotion in Mouse Spinal Cord. <i>Journal of Neuroscience</i> , 2009, 29, 11601-11613. | 3.6 | 69 |
| 13 | Interpreting in vivo calcium signals from neuronal cell bodies, axons, and dendrites: a review. <i>Neurophotonics</i> , 2019, 7, 1. | 3.3 | 65 |
| 14 | A Dendrite-Focused Framework for Understanding the Actions of Ketamine and Psychedelics. <i>Trends in Neurosciences</i> , 2021, 44, 260-275. | 8.6 | 58 |
| 15 | A database and deep learning toolbox for noise-optimized, generalized spike inference from calcium imaging. <i>Nature Neuroscience</i> , 2021, 24, 1324-1337. | 14.8 | 57 |
| 16 | Targeted two-photon chemical apoptotic ablation of defined cell types in vivo. <i>Nature Communications</i> , 2017, 8, 15837. | 12.8 | 41 |
| 17 | Enhanced Population Coding for Rewarded Choices in the Medial Frontal Cortex of the Mouse. <i>Cerebral Cortex</i> , 2019, 29, 4090-4106. | 2.9 | 37 |
| 18 | Parvalbumin-Positive Neuron Loss and Amyloid- β^2 Deposits in the Frontal Cortex of Alzheimer ^Â s Disease-Related Mice. <i>Journal of Alzheimer's Disease</i> , 2019, 72, 1323-1339. | 2.6 | 30 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Spatiotemporal Dynamics of Rhythmic Spinal Interneurons Measured With Two-Photon Calcium Imaging and Coherence Analysis. <i>Journal of Neurophysiology</i> , 2010, 104, 3323-3333. | 1.8 | 28 |
| 20 | Psychedelics. <i>Current Biology</i> , 2022, 32, R63-R67. | 3.9 | 26 |
| 21 | Nanoscope Visualization of Restricted Nonvolume Cholinergic and Monoaminergic Transmission with Genetically Encoded Sensors. <i>Nano Letters</i> , 2020, 20, 4073-4083. | 9.1 | 18 |
| 22 | Dopamine-induced oscillations of the pyloric pacemaker neuron rely on release of calcium from intracellular stores. <i>Journal of Neurophysiology</i> , 2011, 106, 1288-1298. | 1.8 | 15 |
| 23 | Inhibitory regulation of calcium transients in prefrontal dendritic spines is compromised by a nonsense Shank3 mutation. <i>Molecular Psychiatry</i> , 2021, 26, 1945-1966. | 7.9 | 15 |
| 24 | Cumulative Effects of Social Stress on Reward-Guided Actions and Prefrontal Cortical Activity. <i>Biological Psychiatry</i> , 2020, 88, 541-553. | 1.3 | 15 |
| 25 | Secondary motor cortex: Broadcasting and biasing animal's decisions through long-range circuits. <i>International Review of Neurobiology</i> , 2021, 158, 443-470. | 2.0 | 15 |
| 26 | Ketamine for a Boost of Neural Plasticity: How, but Also When?. <i>Biological Psychiatry</i> , 2021, 89, 1030-1032. | 1.3 | 13 |
| 27 | What Can Population Calcium Imaging Tell Us About Neural Circuits?. <i>Journal of Neurophysiology</i> , 2008, 100, 2977-2980. | 1.8 | 8 |
| 28 | Applying Reinforcement Learning to Rodent Stress Research. <i>Chronic Stress</i> , 2021, 5, 247054702098473. | 3.4 | 6 |
| 29 | Pupil Correlates of Decision Variables in Mice Playing a Competitive Mixed-Strategy Game. <i>ENeuro</i> , 2022, 9, ENEURO.0457-21.2022. | 1.9 | 6 |
| 30 | Toward reconstructing spike trains from large-scale calcium imaging data. <i>HFSP Journal</i> , 2010, 4, 1-5. | 2.5 | 2 |
| 31 | Same lesson, varied choices by frontal cortex. <i>Nature Neuroscience</i> , 2018, 21, 1648-1650. | 14.8 | 2 |
| 32 | A visuomotor microcircuit in frontal cortex. <i>Nature Neuroscience</i> , 2021, 24, 1345-1347. | 14.8 | 0 |