

Ultrasensitive fluorescent proteins for imaging neuronal

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Citation Report

#	ARTICLE	IF	CITATIONS
16	Septo-hippocampal GABAergic signaling across multiple modalities in awake mice. <i>Nature Neuroscience</i> , 2013, 16, 1182-1184.	7.1	143
17	GABA promotes the competitive selection of dendritic spines by controlling local Ca ²⁺ signaling. <i>Nature Neuroscience</i> , 2013, 16, 1409-1416.	7.1	183
18	Calcium sensors reach new heights. <i>Nature Methods</i> , 2013, 10, 824-824.	9.0	3
19	Cortical connectivity and sensory coding. <i>Nature</i> , 2013, 503, 51-58.	13.7	536
20	Imaging Neuronal Populations in Behaving Rodents: Paradigms for Studying Neural Circuits Underlying Behavior in the Mammalian Cortex. <i>Journal of Neuroscience</i> , 2013, 33, 17631-17640.	1.7	58
21	A disinhibitory microcircuit initiates critical-period plasticity in the visual cortex. <i>Nature</i> , 2013, 501, 543-546.	13.7	353
22	Grid Cells and Neural Coding in High-End Cortices. <i>Neuron</i> , 2013, 80, 765-774.	3.8	45
23	Genetically encoded voltage sensor goes live. <i>Nature Biotechnology</i> , 2013, 31, 994-995.	9.4	5
24	Cell adhesion and intracellular calcium signaling in neurons. <i>Cell Communication and Signaling</i> , 2013, 11, 94.	2.7	56
25	Cellular Resolution Functional Imaging in Behaving Rats Using Voluntary Head Restraint. <i>Neuron</i> , 2013, 80, 371-384.	3.8	85
26	New tools for investigating astrocyte-to-neuron communication. <i>Frontiers in Cellular Neuroscience</i> , 2013, 7, 193.	1.8	52
27	Principal component analysis of odor coding at the level of third-order olfactory neurons in <i>Drosophila</i> . <i>Genes To Cells</i> , 2013, 18, 1070-1081.	0.5	8
29	Sensorimotor structure of <i>Drosophila</i> larva phototaxis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E3868-77.	3.3	110
30	Inference of neuronal network spike dynamics and topology from calcium imaging data. <i>Frontiers in Neural Circuits</i> , 2013, 7, 201.	1.4	82
31	Mushroom body miscellanea: transgenic <i>Drosophila</i> strains expressing anatomical and physiological sensor proteins in Kenyon cells. <i>Frontiers in Neural Circuits</i> , 2013, 7, 147.	1.4	27
32	Japanese studies on neural circuits and behavior of <i>Caenorhabditis elegans</i> . <i>Frontiers in Neural Circuits</i> , 2013, 7, 187.	1.4	2
33	Unraveling the cellular and molecular mechanisms of repetitive magnetic stimulation. <i>Frontiers in Molecular Neuroscience</i> , 2013, 6, 50.	1.4	73
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36	Lack of functional specialization of neurons in the mouse primary visual cortex that have expressed calretinin. Frontiers in Neuroanatomy, 2014, 8, 89.	0.9	8
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1839	Location and Plasticity of the Sodium Spike Initiation Zone in Nociceptive Terminals In Vivo. <i>Neuron</i> , 2019, 102, 801-812.e5.	3.8	30
1840	Conversion of Graded Presynaptic Climbing Fiber Activity into Graded Postsynaptic Ca ²⁺ Signals by Purkinje Cell Dendrites. <i>Neuron</i> , 2019, 102, 762-769.e4.	3.8	29
1841	An orange calcium-modulated bioluminescent indicator for non-invasive activity imaging. <i>Nature Chemical Biology</i> , 2019, 15, 433-436.	3.9	37
1842	Dysregulation of Microglial Function Contributes to Neuronal Impairment in <i>Mcoln1a</i> -Deficient Zebrafish. <i>iScience</i> , 2019, 13, 391-401.	1.9	6
1843	Benchmarking miniaturized microscopy against two-photon calcium imaging using single-cell orientation tuning in mouse visual cortex. <i>PLoS ONE</i> , 2019, 14, e0214954.	1.1	20
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1847	Imaging and Analysis of Presynaptic Calcium Influx in Cultured Neurons Using synGCaMP6f. <i>Frontiers in Synaptic Neuroscience</i> , 2019, 11, 12.	1.3	20
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1849	Sphingosine-1-phosphate activates mouse vagal airway afferent C-fibres via S1PR3 receptors. <i>Journal of Physiology</i> , 2019, 597, 2007-2019.	1.3	23
1850	CaMello-XR enables visualization and optogenetic control of Gq/11 signals and receptor trafficking in GPCR-specific domains. <i>Communications Biology</i> , 2019, 2, 60.	2.0	15
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1853	Craniobot: A computer numerical controlled robot for cranial microsurgeries. <i>Scientific Reports</i> , 2019, 9, 1023.	1.6	30
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1867	Holographic two-photon activation for synthetic optogenetics. Nature Protocols, 2019, 14, 864-900.	5.5	27
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1870	Flexible fiber-based optoelectronics for neural interfaces. Chemical Society Reviews, 2019, 48, 1826-1852.	18.7	100
1871	Reinforcement Learning Recruits Somata and Apical Dendrites across Layers of Primary Sensory Cortex. Cell Reports, 2019, 26, 2000-2008.e2.	2.9	59
1872	Acoustic Pattern Recognition and Courtship Songs: Insights from Insects. Annual Review of Neuroscience, 2019, 42, 129-147.	5.0	28

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1875	A genetically encoded single-wavelength sensor for imaging cytosolic and cell surface ATP. <i>Nature Communications</i> , 2019, 10, 711.	5.8	185
1876	In vivo imaging for neurovascular disease research. <i>Archives of Pharmacal Research</i> , 2019, 42, 263-273.	2.7	13
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1878	Hypothalamic Control of Conspecific Self-Defense. <i>Cell Reports</i> , 2019, 26, 1747-1758.e5.	2.9	61
1879	A hypothalamus-habenula circuit controls aversion. <i>Molecular Psychiatry</i> , 2019, 24, 1351-1368.	4.1	111
1880	Calcium signals are necessary to establish auxin transporter polarity in a plant stem cell niche. <i>Nature Communications</i> , 2019, 10, 726.	5.8	51
1881	A four-electrode method to study dynamics of ion activity and transport in skeletal muscle fibers. <i>Journal of General Physiology</i> , 2019, 151, 1146-1155.	0.9	9
1882	Targeted knockout of GABA receptor gamma 2 subunit provokes transient light-induced reflex seizures in zebrafish larvae. <i>DMM Disease Models and Mechanisms</i> , 2019, 12, .	1.2	29
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1895	Sensorimotor experience remaps visual input to a heading-direction network. <i>Nature</i> , 2019, 576, 121-125.	13.7	137
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1899	Integrating the inputs that shape pancreatic islet hormone release. <i>Nature Metabolism</i> , 2019, 1, 1189-1201.	5.1	82
1900	Calcium-Independent Exo-endocytosis Coupling at Small Central Synapses. <i>Cell Reports</i> , 2019, 29, 3767-3774.e3.	2.9	15
1901	Hippocampal Lnx1 NMDAR multiprotein complex mediates initial social memory. <i>Molecular Psychiatry</i> , 2021, 26, 3956-3969.	4.1	15
1902	Contribution of apical and basal dendrites to orientation encoding in mouse V1 L2/3 pyramidal neurons. <i>Nature Communications</i> , 2019, 10, 5372.	5.8	39
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1904	Associative responses to visual shape stimuli in the mouse auditory cortex. <i>PLoS ONE</i> , 2019, 14, e0223242.	1.1	1
1905	Neuronal Avalanches in Input and Associative Layers of Auditory Cortex. <i>Frontiers in Systems Neuroscience</i> , 2019, 13, 45.	1.2	22
1906	Activity in Lateral Visual Areas Contributes to Surround Suppression in Awake Mouse V1. <i>Current Biology</i> , 2019, 29, 4268-4275.e7.	1.8	33
1907	Light-driven activation of mitochondrial proton-motive force improves motor behaviors in a <i>Drosophila</i> model of Parkinson's disease. <i>Communications Biology</i> , 2019, 2, 424.	2.0	25
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1911	High-Throughput Platform for Optoacoustic Probing of Genetically Encoded Calcium Ion Indicators. <i>IScience</i> , 2019, 22, 400-408.	1.9	5
1912	A glucose-sensing neuron pair regulates insulin and glucagon in <i>Drosophila</i> . <i>Nature</i> , 2019, 574, 559-564.	13.7	99
1913	Real-time volumetric microscopy of in vivo dynamics and large-scale samples with SCAPE 2.0. <i>Nature Methods</i> , 2019, 16, 1054-1062.	9.0	222
1914	Kilohertz two-photon brain imaging in awake mice. <i>Nature Methods</i> , 2019, 16, 1119-1122.	9.0	74
1915	Accurate quantification of astrocyte and neurotransmitter fluorescence dynamics for single-cell and population-level physiology. <i>Nature Neuroscience</i> , 2019, 22, 1936-1944.	7.1	122
1916	Adaptive disinhibitory gating by VIP interneurons permits associative learning. <i>Nature Neuroscience</i> , 2019, 22, 1834-1843.	7.1	113
1917	Organotypic brain slice cultures to model neurodegenerative proteinopathies. <i>Molecular Neurodegeneration</i> , 2019, 14, 45.	4.4	69
1918	Stability of spontaneous, correlated activity in mouse auditory cortex. <i>PLoS Computational Biology</i> , 2019, 15, e1007360.	1.5	21
1919	Focusing light inside live tissue using reversibly switchable bacterial phytochrome as a genetically encoded photochromic guide star. <i>Science Advances</i> , 2019, 5, eaay1211.	4.7	26
1920	Ultrafast Two-Photon Imaging of a High-Gain Voltage Indicator in Awake Behaving Mice. <i>Cell</i> , 2019, 179, 1590-1608.e23.	13.5	242
1921	TwoLumps Ascending Neurons Mediate Touch-Evoked Reversal of Walking Direction in <i>Drosophila</i> . <i>Current Biology</i> , 2019, 29, 4337-4344.e5.	1.8	17
1922	Sensory coding mechanisms revealed by optical tagging of physiologically defined neuronal types. <i>Science</i> , 2019, 366, 1384-1389.	6.0	21
1923	Generation of stable heading representations in diverse visual scenes. <i>Nature</i> , 2019, 576, 126-131.	13.7	127
1924	Peeking into the sleeping brain: Using in vivo imaging in rodents to understand the relationship between sleep and cognition. <i>Journal of Neuroscience Methods</i> , 2019, 316, 71-82.	1.3	8
1925	Seeing the long tail: A novel green fluorescent protein, SiriusGFP, for ultra long timelapse imaging. <i>Journal of Neuroscience Methods</i> , 2019, 313, 68-76.	1.3	8
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1929	Development of a novel, sensitive cell-based corin assay. <i>Biochemical Pharmacology</i> , 2019, 160, 62-70.	2.0	2
1930	Tac1-Expressing Neurons in the Periaqueductal Gray Facilitate the Itch-Scratching Cycle via Descending Regulation. <i>Neuron</i> , 2019, 101, 45-59.e9.	3.8	91
1931	GABA and glutamate neurons in the VTA regulate sleep and wakefulness. <i>Nature Neuroscience</i> , 2019, 22, 106-119.	7.1	188
1932	Tau impairs neural circuits, dominating amyloid- β effects, in Alzheimer models in vivo. <i>Nature Neuroscience</i> , 2019, 22, 57-64.	7.1	278
1933	Spatially Stable Mitochondrial Compartments Fuel Local Translation during Plasticity. <i>Cell</i> , 2019, 176, 73-84.e15.	13.5	235
1934	A compressed sensing framework for efficient dissection of neural circuits. <i>Nature Methods</i> , 2019, 16, 126-133.	9.0	12
1935	Circuit interrogation in freely moving animals. <i>Nature Methods</i> , 2019, 16, 9-11.	9.0	14
1936	High-Density, Long-Lasting, and Multi-region Electrophysiological Recordings Using Polymer Electrode Arrays. <i>Neuron</i> , 2019, 101, 21-31.e5.	3.8	232
1937	Stromalin Constrains Memory Acquisition by Developmentally Limiting Synaptic Vesicle Pool Size. <i>Neuron</i> , 2019, 101, 103-118.e5.	3.8	10
1938	Development of Cortical Pyramidal Cell and Interneuronal Dendrites: a Role for Kainate Receptor Subunits and NETO1. <i>Molecular Neurobiology</i> , 2019, 56, 4960-4979.	1.9	26
1939	Synaptic topography – Converging connections and emerging function. <i>Neuroscience Research</i> , 2019, 141, 29-35.	1.0	1
1940	Reprogramming the brain with synthetic neurobiology. <i>Current Opinion in Biotechnology</i> , 2019, 58, 37-44.	3.3	2
1941	Differential effect of amphetamine over the corticotropin-releasing factor CRF2 receptor, the orexin OX1 receptor and the CRF2-OX1 heteroreceptor complex. <i>Neuropharmacology</i> , 2019, 152, 102-111.	2.0	11
1942	Internal gain modulations, but not changes in stimulus contrast, preserve the neural code. <i>Journal of Neuroscience</i> , 2019, 39, 12-18.	1.7	8
1943	Comparative Evaluation of Genetically Encoded Voltage Indicators. <i>Cell Reports</i> , 2019, 26, 802-813.e4.	2.9	137
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1946	Cortical column and whole-brain imaging with molecular contrast and nanoscale resolution. <i>Science</i> , 2019, 363, .	6.0	277
1947	Flexible Nanopipettes for Minimally Invasive Intracellular Electrophysiology In Vivo. <i>Cell Reports</i> , 2019, 26, 266-278.e5.	2.9	52
1948	Calcium activation of cortical neurons by continuous electrical stimulation: Frequency dependence, temporal fidelity, and activation density. <i>Journal of Neuroscience Research</i> , 2019, 97, 620-638.	1.3	67
1949	A novel multi lines analysis tool of Ca ²⁺ dynamics reveals the nonuniformity of Ca ²⁺ propagation. <i>Cell Calcium</i> , 2019, 78, 76-80.	1.1	1
1950	Probabilistic Encoding Models for Multivariate Neural Data. <i>Frontiers in Neural Circuits</i> , 2019, 13, 1.	1.4	49
1951	Molecular tools for imaging and recording neuronal activity. <i>Nature Chemical Biology</i> , 2019, 15, 101-110.	3.9	67
1952	Genetically encoded fluorescent indicators for imaging intracellular potassium ion concentration. <i>Communications Biology</i> , 2019, 2, 18.	2.0	110
1953	The kinetic mechanisms of fast-decay red-fluorescent genetically encoded calcium indicators. <i>Journal of Biological Chemistry</i> , 2019, 294, 3934-3946.	1.6	28
1954	Avoidance response to CO ₂ in the lateral horn. <i>PLoS Biology</i> , 2019, 17, e2006749.	2.6	24
1955	Ionotropic Receptors Specify the Morphogenesis of Phasic Sensors Controlling Rapid Thermal Preference in <i>Drosophila</i> . <i>Neuron</i> , 2019, 101, 738-747.e3.	3.8	90
1956	A disinhibitory mechanism biases <i>Drosophila</i> innate light preference. <i>Nature Communications</i> , 2019, 10, 124.	5.8	16
1957	Enhanced Population Coding for Rewarded Choices in the Medial Frontal Cortex of the Mouse. <i>Cerebral Cortex</i> , 2019, 29, 4090-4106.	1.6	37
1958	Functional Synaptic Architecture of Callosal Inputs in Mouse Primary Visual Cortex. <i>Neuron</i> , 2019, 101, 421-428.e5.	3.8	46
1959	Interacting neural ensembles in orbitofrontal cortex for social and feeding behaviour. <i>Nature</i> , 2019, 565, 645-649.	13.7	165
1960	Retinal Characterization of the Thy1-GCaMP3 Transgenic Mouse Line After Optic Nerve Transection. , 2019, 60, 183.		9
1961	An open-source control system for in vivo fluorescence measurements from deep-brain structures. <i>Journal of Neuroscience Methods</i> , 2019, 311, 170-177.	1.3	16
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1964	Molecular-docking-guided design and synthesis of new IAA-tacrine hybrids as multifunctional AChE/BChE inhibitors. <i>Bioorganic Chemistry</i> , 2019, 83, 277-288.	2.0	38
1965	Mapping Structure-Function Relationships in the Brain. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2019, 4, 510-521.	1.1	11
1966	Inositol 1,4,5-trisphosphate receptor type 2-independent Ca ²⁺ release from the endoplasmic reticulum in astrocytes. <i>Glia</i> , 2019, 67, 113-124.	2.5	43
1967	Miniscope GRIN Lens System for Calcium Imaging of Neuronal Activity from Deep Brain Structures in Behaving Animals. <i>Current Protocols in Neuroscience</i> , 2019, 86, e56.	2.6	66
1968	5-Azido-8-ethynyl-NAADP: A bifunctional, clickable photoaffinity probe for the identification of NAADP receptors. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2019, 1866, 1180-1188.	1.9	15
1969	Fine Control of Sound Frequency Tuning and Frequency Discrimination Acuity by Synaptic Zinc Signaling in Mouse Auditory Cortex. <i>Journal of Neuroscience</i> , 2019, 39, 854-865.	1.7	26
1970	Light-microscopy methods in <i>C. elegans</i> research. <i>Current Opinion in Systems Biology</i> , 2019, 13, 82-92.	1.3	16
1971	Dopamine tunes prefrontal outputs to orchestrate aversive processing. <i>Brain Research</i> , 2019, 1713, 16-31.	1.1	53
1972	Hemodynamic and neuronal responses to cocaine differ in awake versus anesthetized animals: Optical brain imaging study. <i>NeuroImage</i> , 2019, 188, 188-197.	2.1	13
1973	Nicotine and alcohol: the role of midbrain dopaminergic neurons in drug reinforcement. <i>European Journal of Neuroscience</i> , 2019, 50, 2180-2200.	1.2	23
1974	Activity dependent internalization of the glutamate transporter GLT-1 requires calcium entry through the NCX sodium/calcium exchanger. <i>Neurochemistry International</i> , 2019, 123, 125-132.	1.9	22
1975	Enhanced neuronal and blunted hemodynamic reactivity to cocaine in the prefrontal cortex following extended cocaine access: optical imaging study in anesthetized rats. <i>Addiction Biology</i> , 2019, 24, 485-497.	1.4	13
1976	Insights from intoxicated <i>Drosophila</i> . <i>Alcohol</i> , 2019, 74, 21-27.	0.8	17
1977	Striatopallidal neurons control avoidance behavior in exploratory tasks. <i>Molecular Psychiatry</i> , 2020, 25, 491-505.	4.1	29
1978	The receptor channel formed by ppk25, ppk29 and ppk23 can sense the <i>Drosophila</i> female pheromone 7,11-heptacosadiene. <i>Genes, Brain and Behavior</i> , 2020, 19, e12529.	1.1	23
1979	Fast nonconvex deconvolution of calcium imaging data. <i>Biostatistics</i> , 2020, 21, 709-726.	0.9	38
1980	What single-unit recording studies tell us about the basic mechanisms of sleep and wakefulness. <i>European Journal of Neuroscience</i> , 2020, 52, 3507-3530.	1.2	8

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1982	Visualization of astrocytic intracellular Ca ²⁺ mobilization. <i>Journal of Physiology</i> , 2020, 598, 1671-1681.	1.3	18
1983	Lamprey Parapinopsin (λ _{UV}): a Bistable UV-Sensitive Optogenetic Switch for Ultrafast Control of GPCR Pathways. <i>ChemBioChem</i> , 2020, 21, 612-617.	1.3	30
1984	The role of carbon dioxide in nematode behaviour and physiology. <i>Parasitology</i> , 2020, 147, 841-854.	0.7	16
1985	Deconvolution of Sustained Neural Activity From Large-Scale Calcium Imaging Data. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 1094-1103.	5.4	0
1986	Simulation of transcranial magnetic stimulation in head model with morphologically-realistic cortical neurons. <i>Brain Stimulation</i> , 2020, 13, 175-189.	0.7	193
1987	Cellular and Widefield Imaging of Sound Frequency Organization in Primary and Higher Order Fields of the Mouse Auditory Cortex. <i>Cerebral Cortex</i> , 2020, 30, 1603-1622.	1.6	62
1989	Enhancement of human iPSC-derived cardiomyocyte maturation by chemical conditioning in a 3D environment. <i>Journal of Molecular and Cellular Cardiology</i> , 2020, 138, 1-11.	0.9	80
1990	Simultaneous mesoscopic and two-photon imaging of neuronal activity in cortical circuits. <i>Nature Methods</i> , 2020, 17, 107-113.	9.0	102
1991	Toward Decoding Bioelectric Events in Xenopus Embryogenesis: New Methodology for Tracking Interplay Between Calcium and Resting Potentials In Vivo. <i>Journal of Molecular Biology</i> , 2020, 432, 605-620.	2.0	14
1992	Transient and sustained effects of dopamine and serotonin signaling in motivation-related behavior. <i>Psychiatry and Clinical Neurosciences</i> , 2020, 74, 91-98.	1.0	26
1993	Motor learning requires myelination to reduce asynchrony and spontaneity in neural activity. <i>Glia</i> , 2020, 68, 193-210.	2.5	55
1994	Is hippocampal remapping the physiological basis for context?. <i>Hippocampus</i> , 2020, 30, 851-864.	0.9	42
1995	CdSe quantum dots labeled Staphylococcus aureus for research studies of THP-1 derived macrophage phagocytic behavior. <i>RSC Advances</i> , 2020, 10, 260-270.	1.7	3
1996	Adreno-melatonin receptor complexes control ion homeostasis and intraocular pressure - their disruption contributes to hypertensive glaucoma. <i>British Journal of Pharmacology</i> , 2020, 177, 2090-2105.	2.7	8
1997	Ketamine disinhibits dendrites and enhances calcium signals in prefrontal dendritic spines. <i>Nature Communications</i> , 2020, 11, 72.	5.8	128
1998	Transmembrane helix 6b links proton and metal release pathways and drives conformational change in an Nramp-family transition metal transporter. <i>Journal of Biological Chemistry</i> , 2020, 295, 1212-1224.	1.6	10
1999	Confocal Microscopy: Principles and Modern Practices. <i>Current Protocols in Cytometry</i> , 2020, 92, e68.	3.7	113

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2325	Interactions between stimuli-evoked cortical activity and spontaneous low frequency oscillations measured with neuronal calcium. <i>NeuroImage</i> , 2020, 210, 116554.	2.1	16

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2327	Aberrant Cortical Ensembles and Schizophrenia-like Sensory Phenotypes in <i>Setd1a</i> +/- Mice. <i>Biological Psychiatry</i> , 2020, 88, 215-223.	0.7	29
2328	Parallel Channels for Motion Feature Extraction in the Pretectum and Tectum of Larval Zebrafish. <i>Cell Reports</i> , 2020, 30, 442-453.e6.	2.9	38
2329	The Microbiologist's Guide to Membrane Potential Dynamics. <i>Trends in Microbiology</i> , 2020, 28, 304-314.	3.5	156
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2333	Primary nitrate responses mediated by calcium signalling and diverse protein phosphorylation. <i>Journal of Experimental Botany</i> , 2020, 71, 4428-4441.	2.4	45
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2341	Intraorganellar calcium imaging in Arabidopsis seedling roots using the GCaMP variants GCaMP6m and R-CEPIA1er. <i>Journal of Plant Physiology</i> , 2020, 246-247, 153127.	1.6	13
2342	A Multi-regional Network Encoding Heading and Steering Maneuvers in <i>Drosophila</i> . <i>Neuron</i> , 2020, 106, 126-141.e5.	3.8	38
2343	FMRP regulates presynaptic localization of neuronal voltage gated calcium channels. <i>Neurobiology of Disease</i> , 2020, 138, 104779.	2.1	25

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2345	Opposing Somatic and Dendritic Expression of Stimulus-Selective Response Plasticity in Mouse Primary Visual Cortex. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 555.	1.8	19
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2353	Mitochondria determine the sequential propagation of the calcium macrodomains revealed by the super-resolution calcium lantern imaging. <i>Science China Life Sciences</i> , 2020, 63, 1543-1551.	2.3	3
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2359	Non-apoptotic cell death induced by opening the large conductance mechanosensitive channel MscL in hepatocellular carcinoma HepG2 cells. <i>Biomaterials</i> , 2020, 250, 120061.	5.7	6
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2364	The gut-brain axis mediates sugar preference. <i>Nature</i> , 2020, 580, 511-516.	13.7	172
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2388	New frontiers in translational research: Touchscreens, open science, and the mouse translational research accelerator platform. <i>Genes, Brain and Behavior</i> , 2021, 20, e12705.	1.1	18
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2715	CalTrack: High-Throughput Automated Calcium Transient Analysis in Cardiomyocytes. <i>Circulation Research</i> , 2021, 129, 326-341.	2.0	31

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2723	Mitochondrial calcium uniporter deletion prevents painful diabetic neuropathy by restoring mitochondrial morphology and dynamics. <i>Pain</i> , 2022, 163, 560-578.	2.0	19
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2725	Unlocking pan-neuronal expression in mosquitoes. <i>Cell Reports Methods</i> , 2021, 1, 100051.	1.4	1
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3358	Building a functional connectome of the <i>Drosophila</i> central complex. <i>ELife</i> , 2018, 7, .	2.8	112
3359	Unsupervised discovery of temporal sequences in high-dimensional datasets, with applications to neuroscience. <i>ELife</i> , 2019, 8, .	2.8	85
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3363	Cholinergic modulation of hippocampal calcium activity across the sleep-wake cycle. <i>ELife</i> , 2019, 8, .	2.8	28
3364	Differential regulation of the <i>Drosophila</i> sleep homeostat by circadian and arousal inputs. <i>ELife</i> , 2019, 8, .	2.8	67
3365	High-throughput synapse-resolving two-photon fluorescence microendoscopy for deep-brain volumetric imaging in vivo. <i>ELife</i> , 2019, 8, .	2.8	75

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3369	Visual cue-related activity of cells in the medial entorhinal cortex during navigation in virtual reality. <i>ELife</i> , 2020, 9, .	2.8	26
3370	PARIS, an optogenetic method for functionally mapping gap junctions. <i>ELife</i> , 2019, 8, .	2.8	29
3371	Rapid task-dependent tuning of the mouse olfactory bulb. <i>ELife</i> , 2019, 8, .	2.8	36
3372	Transitioning between preparatory and precisely sequenced neuronal activity in production of a skilled behavior. <i>ELife</i> , 2019, 8, .	2.8	21
3373	Slow presynaptic mechanisms that mediate adaptation in the olfactory pathway of <i>Drosophila</i> . <i>ELife</i> , 2019, 8, .	2.8	33
3374	The ion channel <i>ppk301</i> controls freshwater egg-laying in the mosquito <i>Aedes aegypti</i> . <i>ELife</i> , 2019, 8, .	2.8	74
3375	Context-dependent signaling of coincident auditory and visual events in primary visual cortex. <i>ELife</i> , 2019, 8, .	2.8	66
3376	Sensory perception drives food avoidance through excitatory basal forebrain circuits. <i>ELife</i> , 2019, 8, .	2.8	27
3377	Coordination of rapid cholinergic and dopaminergic signaling in striatum during spontaneous movement. <i>ELife</i> , 2019, 8, .	2.8	64
3378	GABA neurons in the ventral tegmental area regulate non-rapid eye movement sleep in mice. <i>ELife</i> , 2019, 8, .	2.8	53
3379	Sweet neurons inhibit texture discrimination by signaling TMC-expressing mechanosensitive neurons in <i>Drosophila</i> . <i>ELife</i> , 2019, 8, .	2.8	31
3380	Enrichment drives emergence of functional columns and improves sensory coding in the whisker map in L2/3 of mouse S1. <i>ELife</i> , 2019, 8, .	2.8	15
3381	Imaging neuropeptide release at synapses with a genetically engineered reporter. <i>ELife</i> , 2019, 8, .	2.8	33
3382	Local synaptic inputs support opposing, network-specific odor representations in a widely projecting modulatory neuron. <i>ELife</i> , 2019, 8, .	2.8	12
3383	Functional clustering of dendritic activity during decision-making. <i>ELife</i> , 2019, 8, .	2.8	115

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3384	Modular organization of cerebellar climbing fiber inputs during goal-directed behavior. <i>ELife</i> , 2019, 8, .	2.8	40
3385	Structured inhibitory activity dynamics in new virtual environments. <i>ELife</i> , 2019, 8, .	2.8	19
3386	Acetic acid activates distinct taste pathways in <i>Drosophila</i> to elicit opposing, state-dependent feeding responses. <i>ELife</i> , 2019, 8, .	2.8	53
3387	Inhibitory muscarinic acetylcholine receptors enhance aversive olfactory learning in adult <i>Drosophila</i> . <i>ELife</i> , 2019, 8, .	2.8	36
3388	Activity dynamics of amygdala GABAergic neurons during cataplexy of narcolepsy. <i>ELife</i> , 2019, 8, .	2.8	14
3389	Circuits that encode and guide alcohol-associated preference. <i>ELife</i> , 2020, 9, .	2.8	32
3390	Crystal structure of dopamine receptor D4 bound to the subtype selective ligand, L745870. <i>ELife</i> , 2019, 8, .	2.8	19
3391	Layer 6 ensembles can selectively regulate the behavioral impact and layer-specific representation of sensory deviants. <i>ELife</i> , 2020, 9, .	2.8	20
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3397	Quantitative analysis of 1300-nm three-photon calcium imaging in the mouse brain. <i>ELife</i> , 2020, 9, .	2.8	76
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3399	Transverse sinus injections drive robust whole-brain expression of transgenes. <i>ELife</i> , 2020, 9, .	2.8	24
3400	Neuropeptide VF neurons promote sleep via the serotonergic raphe. <i>ELife</i> , 2020, 9, .	2.8	10
3401	Leptin increases sympathetic nerve activity via induction of its own receptor in the paraventricular nucleus. <i>ELife</i> , 2020, 9, .	2.8	26

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3404	Localized inhibition in the <i>Drosophila</i> mushroom body. <i>ELife</i> , 2020, 9, .	2.8	29
3405	Erasable labeling of neuronal activity using a reversible calcium marker. <i>ELife</i> , 2020, 9, .	2.8	18
3406	Acetylcholine is released in the basolateral amygdala in response to predictors of reward and enhances the learning of cue-reward contingency. <i>ELife</i> , 2020, 9, .	2.8	55
3407	Alzheimer's disease risk gene BIN1 induces Tau-dependent network hyperexcitability. <i>ELife</i> , 2020, 9, .	2.8	35
3408	Spatial readout of visual looming in the central brain of <i>Drosophila</i> . <i>ELife</i> , 2020, 9, .	2.8	37
3409	Cold-induced hyperphagia requires AgRP neuron activation in mice. <i>ELife</i> , 2020, 9, .	2.8	32
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3417	Modulation of sleep-courtship balance by nutritional status in <i>Drosophila</i> . <i>ELife</i> , 2020, 9, .	2.8	17
3418	Magnesium efflux from <i>Drosophila</i> Kenyon cells is critical for normal and diet-enhanced long-term memory. <i>ELife</i> , 2020, 9, .	2.8	5
3419	Modulation of flight and feeding behaviours requires presynaptic IP3Rs in dopaminergic neurons. <i>ELife</i> , 2020, 9, .	2.8	14

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4593	Awake perception is associated with dedicated neuronal assemblies in the cerebral cortex. <i>Nature Neuroscience</i> , 2022, 25, 1327-1338.	7.1	14
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4597	Multiscale imaging informs translational mouse modeling of neurological disease. <i>Neuron</i> , 2022, 110, 3688-3710.	3.8	3
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4602	Flexible control of pulse intensity and repetition rate for multiphoton photostimulation. <i>Frontiers in Physics</i> , 0, 10, .	1.0	0
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4608	Midbrain dopamine neurons signal phasic and ramping reward prediction error during goal-directed navigation. <i>Cell Reports</i> , 2022, 41, 111470.	2.9	7
4609	Cortical sensory processing across motivational states during goal-directed behavior. <i>Neuron</i> , 2022, 110, 4176-4193.e10.	3.8	15
4610	Automating the High-Throughput Screening of Protein-Based Optical Indicators and Actuators. <i>Biochemistry</i> , 2023, 62, 169-177.	1.2	1
4612	Rapid reconstruction of neural circuits using tissue expansion and light sheet microscopy. <i>ELife</i> , 0, 11, .	2.8	17

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4630	The impact of familiarity on cortical taste coding. <i>Current Biology</i> , 2022, 32, 4914-4924.e4.	1.8	3
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4640	Immature olfactory sensory neurons provide behaviourally relevant sensory input to the olfactory bulb. <i>Nature Communications</i> , 2022, 13, .	5.8	13
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