A High-Light Sensitivity Optical Neural Silencer: Develo Optogenetic Control of Non-Human Primate Cortex

Frontiers in Systems Neuroscience

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Citation Report

#	Article	IF	Citations
1	Synthetic Physiology. Science, 2011, 332, 1508-1509.	6.0	7
2	Optogenetic tools for analyzing the neural circuits of behavior. Trends in Cognitive Sciences, 2011, 15, 592-600.	4.0	246
3	Genetic Manipulation of Genes and Cells in the Nervous System of the Fruit Fly. Neuron, 2011, 72, 202-230.	3.8	395
4	A history of optogenetics: the development of tools for controlling brain circuits with light. F1000 Biology Reports, 2011, 3, 11.	4.0	169
5	Optogenetic Control of Cells and Circuits. Annual Review of Cell and Developmental Biology, 2011, 27, 731-758.	4.0	149
6	Genetic dissection of the circuit for hand dexterity in primates. Nature, 2012, 487, 235-238.	13.7	218
7	Three-dimensional multiwaveguide probe array for light delivery to distributed brain circuits. Optics Letters, 2012, 37, 4841.	1.7	171
8	Principles for applying optogenetic tools derived from direct comparative analysis of microbial opsins. Nature Methods, 2012, 9, 159-172.	9.0	666
9	In Vivo Application of Optogenetics for Neural Circuit Analysis. ACS Chemical Neuroscience, 2012, 3, 577-584.	1.7	83
10	Optogenetic Inactivation Modifies Monkey Visuomotor Behavior. Neuron, 2012, 76, 901-907.	3.8	120
11	Optogenetic Neuromodulation. International Review of Neurobiology, 2012, 107, 185-205.	0.9	23
12	Enhancement of the Long-Wavelength Sensitivity of Optogenetic Microbial Rhodopsins by 3,4-Dehydroretinal. Biochemistry, 2012, 51, 4499-4506.	1.2	30
13	Optogenetic Investigation of Neuropsychiatric Diseases. International Journal of Neuroscience, 2012, 123, 7-16.	0.8	10
14	A comprehensive concept of optogenetics. Progress in Brain Research, 2012, 196, 1-28.	0.9	65
15	Optogenetic Modulation of Neural Circuits that Underlie Reward Seeking. Biological Psychiatry, 2012, 71, 1061-1067.	0.7	102
16	Potential Utility of Optogenetics in the Study of Depression. Biological Psychiatry, 2012, 71, 1068-1074.	0.7	49
17	Shedding Light on Brain Circuits. Biological Psychiatry, 2012, 71, 1028-1029.	0.7	5
18	Optogenetics: Eye Movements atÂLight Speed. Current Biology, 2012, 22, R804-R806.	1.8	0

#	Article	IF	Citations
19	Near-IR Resonance Raman Spectroscopy of Archaerhodopsin 3: Effects of Transmembrane Potential. Journal of Physical Chemistry B, 2012, 116, 14592-14601.	1.2	36
20	Mouse transgenic approaches in optogenetics. Progress in Brain Research, 2012, 196, 193-213.	0.9	74
21	Genetically encoded molecular tools for light-driven silencing of targeted neurons. Progress in Brain Research, 2012, 196, 49-61.	0.9	43
22	Optogenetics in the nonhuman primate. Progress in Brain Research, 2012, 196, 215-233.	0.9	58
23	When the electricity (and the lights) go out: transient changes in excitability. Nature Neuroscience, 2012, 15, 1058-1060.	7.1	18
24	Saccadic eye movements evoked by optogenetic activation of primate V1. Nature Neuroscience, 2012, 15, 1368-1370.	7.1	148
25	Viral vector-based reversible neuronal inactivation and behavioral manipulation in the macaque monkey. Frontiers in Systems Neuroscience, 2012, 6, 48.	1.2	9
26	A toolbox of Cre-dependent optogenetic transgenic mice for light-induced activation and silencing. Nature Neuroscience, 2012, 15, 793-802.	7.1	1,153
27	Optogenetics and thermogenetics: technologies for controlling the activity of targeted cells within intact neural circuits. Current Opinion in Neurobiology, 2012, 22, 61-71.	2.0	168
28	Lighting up the brain's reward circuitry. Annals of the New York Academy of Sciences, 2012, 1260, 24-33.	1.8	4
29	Dissecting local circuits in vivo: Integrated optogenetic and electrophysiology approaches for exploring inhibitory regulation of cortical activity. Journal of Physiology (Paris), 2012, 106, 104-111.	2.1	47
30	The optogenetic (r)evolution. Molecular Genetics and Genomics, 2012, 287, 95-109.	1.0	69
31	Controlling the neuronal balancing act: optical coactivation of excitation and inhibition in neuronal subdomains. BMC Neuroscience, 2013, 14, .	0.8	1
32	Prefrontal Activity Links Nonoverlapping Events in Memory. Journal of Neuroscience, 2013, 33, 10910-10914.	1.7	87
33	Characterization of the Properties of Seven Promoters in the Motor Cortex of Rats and Monkeys After Lentiviral Vector-Mediated Gene Transfer. Human Gene Therapy Methods, 2013, 24, 333-344.	2.1	71
34	An implantable neural probe with monolithically integrated dielectric waveguide and recording electrodes for optogenetics applications. Journal of Neural Engineering, 2013, 10, 056012.	1.8	162
35	Long-lasting silencing of orexin/hypocretin neurons using archaerhodopsin induces slow-wave sleep in mice. Behavioural Brain Research, 2013, 255, 64-74.	1.2	117
36	Potential of proton-pumping rhodopsins: engineering photosystems into microorganisms. Trends in Biotechnology, 2013, 31, 633-642.	4.9	23

#	Article	IF	Citations
37	Optogenetics through windows on the brain in the nonhuman primate. Journal of Neurophysiology, 2013, 110, 1455-1467.	0.9	103
38	Optogenetic manipulation of neural and nonâ€neural functions. Development Growth and Differentiation, 2013, 55, 474-490.	0.6	49
39	An optogenetic approach in epilepsy. Neuropharmacology, 2013, 69, 89-95.	2.0	47
40	Layer-specific excitatory circuits differentially control recurrent network dynamics in the neocortex. Nature Neuroscience, 2013, 16, 227-234.	7.1	203
41	Parallel and patterned optogenetic manipulation of neurons in the brain slice using a DMD-based projector. Neuroscience Research, 2013, 75, 59-64.	1.0	39
42	Recent Developments in Optical Neuromodulation Technologies. Molecular Neurobiology, 2013, 47, 172-185.	1.9	5
43	Development of transgenic animals for optogenetic manipulation of mammalian nervous system function: Progress and prospects for behavioral neuroscience. Behavioural Brain Research, 2013, 255, 3-18.	1.2	49
44	An optogenetic application of proton pump ArchT to C. elegans cells. Neuroscience Research, 2013, 75, 29-34.	1.0	16
45	Optogenetics in psychiatric animal models. Cell and Tissue Research, 2013, 354, 61-68.	1.5	5
46	Genetic Approaches to Neural Circuits in the Mouse. Annual Review of Neuroscience, 2013, 36, 183-215.	5.0	184
47	Targeting neurons and photons for optogenetics. Nature Neuroscience, 2013, 16, 805-815.	7.1	297
48	Optogenetics in primates: a shining future?. Trends in Genetics, 2013, 29, 403-411.	2.9	75
49	Optogenetics: Molecular and Optical Tools for Controlling Life with Light. , 2013, , .		0
50	Saccade Modulation by Optical and Electrical Stimulation in the Macaque Frontal Eye Field. Journal of Neuroscience, 2013, 33, 16684-16697.	1.7	98
52	Light-Emitting Channelrhodopsins for Combined Optogenetic and Chemical-Genetic Control of Neurons. PLoS ONE, 2013, 8, e59759.	1.1	75
54	Optogenetic control of arousal neurons. , 2013, , 66-72.		1
55	Laserspritzer: A Simple Method for Optogenetic Investigation with Subcellular Resolutions. PLoS ONE, 2014, 9, e101600.	1.1	6
56	Optogenetic dissection of medial prefrontal cortex circuitry. Frontiers in Systems Neuroscience, 2014, 8, 230.	1.2	179

#	Article	IF	Citations
57	Auditory Cortex Is Required for Fear Potentiation of Gap Detection. Journal of Neuroscience, 2014, 34, 15437-15445.	1.7	40
58	Optogenetic Manipulation of Activity and Temporally Controlled Cell-Specific Ablation Reveal a Role for MCH Neurons in Sleep/Wake Regulation. Journal of Neuroscience, 2014, 34, 6896-6909.	1.7	187
59	Neural Coding for Effective Rehabilitation. BioMed Research International, 2014, 2014, 1-17.	0.9	2
60	Injection parameters and virus dependent choice of promoters to improve neuron targeting in the nonhuman primate brain. Gene Therapy, 2014, 21, 233-241.	2.3	50
61	Fast-conducting mechanoreceptors contribute to withdrawal behavior in normal and nerve injured rats. Pain, 2014, 155, 2646-2655.	2.0	53
62	Hebbian and neuromodulatory mechanisms interact to trigger associative memory formation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E5584-92.	3.3	170
63	Toward microendoscopy-inspired cardiac optogeneticsin vivo: technical overview and perspective. Journal of Biomedical Optics, 2014, 19, 080701.	1.4	39
64	A Method for Activation of Endogenous Acid-sensing Ion Channel 1a (ASIC1a) in the Nervous System with High Spatial and Temporal Precision. Journal of Biological Chemistry, 2014, 289, 15441-15448.	1.6	13
65	Balanced activity in basal ganglia projection pathways is critical for contraversive movements. Nature Communications, 2014, 5, 4315.	5.8	167
66	Epidermal Merkel cells are mechanosensory cells that tune mammalian touch receptors. Nature, 2014, 509, 617-621.	13.7	447
67	Control of Stress-Induced Persistent Anxiety by an Extra-Amygdala Septohypothalamic Circuit. Cell, 2014, 156, 522-536.	13.5	217
68	Island Cells Control Temporal Association Memory. Science, 2014, 343, 896-901.	6.0	269
69	Beyond the bolus: transgenic tools for investigating the neurophysiology of learning and memory. Learning and Memory, 2014, 21, 506-518.	0.5	5
70	How Might Novel Technologies Such as Optogenetics Lead to Better Treatments in Epilepsy?. Advances in Experimental Medicine and Biology, 2014, 813, 319-336.	0.8	19
71	Cortical Representations Are Reinstated by the Hippocampus during Memory Retrieval. Neuron, 2014, 84, 347-354.	3.8	307
72	Noninvasive optical inhibition with a red-shifted microbial rhodopsin. Nature Neuroscience, 2014, 17, 1123-1129.	7.1	480
73	Independent control of gamma and theta activity by distinct interneuron networks in the olfactory bulb. Nature Neuroscience, 2014, 17, 1208-1216.	7.1	185
74	Pharmacogenetic and optical dissection for mechanistic understanding of Parkinson's disease: Potential utilities revealed through behavioural assessment. Neuroscience and Biobehavioral Reviews, 2014, 47, 87-100.	2.9	13

#	Article	IF	Citations
75	Optogenetic Countering of Glial Acidosis Suppresses Glial Glutamate Release and Ischemic Brain Damage. Neuron, 2014, 81, 314-320.	3.8	154
76	Optical silencing of C. elegans cells with light-driven proton pumps. Methods, 2014, 68, 425-430.	1.9	9
77	Near-infrared (NIR) up-conversion optogenetics. Scientific Reports, 2015, 5, 16533.	1.6	109
78	Stateâ€dependent control of breathing by the retrotrapezoid nucleus. Journal of Physiology, 2015, 593, 2909-2926.	1.3	72
79	Activation of acid-sensing ion channels by localized proton transient reveals their role in proton signaling. Scientific Reports, 2015, 5, 14125.	1.6	28
80	Optogenetic Approaches to Restoring Vision. Annual Review of Vision Science, 2015, 1, 185-210.	2.3	39
81	Using Optogenetics to Dissect the Neural Circuits Underlying OCD and Related Disorders. Current Treatment Options in Psychiatry, 2015, 2, 297-311.	0.7	10
82	In Vivo Mapping of Cortical Columnar Networks in the Monkey with Focal Electrical and Optical Stimulation. Frontiers in Neuroanatomy, 2015, 9, 135.	0.9	27
83	Observation and manipulation of glial cell function by virtue of sufficient probe expression. Frontiers in Cellular Neuroscience, 2015, 9, 176.	1.8	3
84	The medial prefrontal cortex is crucial for the maintenance of persistent licking and the expression of incentive contrast. Frontiers in Integrative Neuroscience, 2015, 9, 23.	1.0	32
86	Optogenetics and Epilepsy: Past, Present and Future. Epilepsy Currents, 2015, 15, 34-38.	0.4	51
87	A Top-Down Cortical Circuit for Accurate Sensory Perception. Neuron, 2015, 86, 1304-1316.	3.8	308
88	Optogenetics and Deep Brain Stimulation Neurotechnologies. Handbook of Experimental Pharmacology, 2015, 228, 441-450.	0.9	4
89	Parvalbumin Interneurons of Hippocampus Tune Population Activity at Theta Frequency. Neuron, 2015, 86, 1277-1289.	3.8	203
90	Cortical Sensorimotor Reverberations. Neuron, 2015, 86, 1116-1118.	3.8	4
91	Optogenetics. Current Opinion in Ophthalmology, 2015, 26, 226-232.	1.3	71
92	Avian sarcoma leukosis virus receptor-envelope system for simultaneous dissection of multiple neural circuits in mammalian brain. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E2947-E2956.	3.3	12
93	Serotype-dependent transduction efficiencies of recombinant adeno-associated viral vectors in monkey neocortex. Neurophotonics, 2015, 2, 031209.	1.7	43

#	Article	IF	Citations
94	COUPLING VOLTAMMETRY WITH OPTOGENETICS TO REVEAL AXONAL CONTROL OF DOPAMINE TRANSMISSION BY STRIATAL ACETYLCHOLINE. , 2015, , 201-223.		0
95	Reciprocal inhibition between sensory ASH and ASI neurons modulates nociception and avoidance in Caenorhabditis elegans. Nature Communications, 2015, 6, 5655.	5.8	63
96	Hypoxia Silences Retrotrapezoid Nucleus Respiratory Chemoreceptors via Alkalosis. Journal of Neuroscience, 2015, 35, 527-543.	1.7	60
97	Beyond the hammer and the scalpel: selective circuit control for the epilepsies. Nature Neuroscience, 2015, 18, 331-338.	7.1	97
98	Mechanotransduction in epidermal Merkel cells. Pflugers Archiv European Journal of Physiology, 2015, 467, 101-108.	1.3	49
99	Cortically projecting basal forebrain parvalbumin neurons regulate cortical gamma band oscillations. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3535-3540.	3.3	246
100	Prefrontal inputs to the amygdala instruct fear extinction memory formation. Science Advances, 2015, 1, .	4.7	181
101	Making Sense of Optogenetics. International Journal of Neuropsychopharmacology, 2015, 18, pyv079.	1.0	112
102	Optrodes for combined optogenetics and electrophysiology in live animals. Neurophotonics, 2015, 2, 031205.	1.7	64
103	Modified toolbox for optogenetics in the nonhuman primate. Neurophotonics, 2015, 2, 031202.	1.7	27
104	Activating positive memory engrams suppresses depression-like behaviour. Nature, 2015, 522, 335-339.	13.7	283
105	3D silicon neural probe with integrated optical fibers for optogenetic modulation. Lab on A Chip, 2015, 15, 2939-2949.	3.1	17
106	Optogenetic tools for modulating and probing the epileptic network. Epilepsy Research, 2015, 116, 15-26.	0.8	28
107	Optogenetic versus Electrical Stimulation of Human Cardiomyocytes: Modeling Insights. Biophysical Journal, 2015, 108, 1934-1945.	0.2	60
108	Control of response reliability by parvalbumin-expressing interneurons in visual cortex. Nature Communications, 2015, 6, 6802.	5.8	61
109	In vivo Optogenetic Stimulation of the Rodent Central Nervous System. Journal of Visualized Experiments, 2015, , 51483.	0.2	17
110	Changing channels in pain and epilepsy: Exploiting ion channel gene therapy for disorders of neuronal hyperexcitability. FEBS Letters, 2015, 589, 1620-1634.	1.3	22
111	Optogenetic and pharmacological suppression of spatial clusters of face neurons reveal their causal role in face gender discrimination. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6730-6735.	3.3	143

#	Article	IF	Citations
112	Principles of designing interpretable optogenetic behavior experiments. Learning and Memory, 2015, 22, 232-238.	0.5	110
113	A novel analgesic approach to optogenetically and specifically inhibit pain transmission using TRPV1 promoter. Brain Research, 2015, 1609, 12-20.	1.1	37
114	Distinct recurrent versus afferent dynamics in cortical visual processing. Nature Neuroscience, 2015, 18, 1789-1797.	7.1	166
115	Hippocampal Remapping after Partial Inactivation of the Medial Entorhinal Cortex. Neuron, 2015, 88, 590-603.	3.8	100
116	A Multisensory Network for Olfactory Processing. Current Biology, 2015, 25, 2642-2650.	1.8	61
117	Preference for concentric orientations in the mouse superior colliculus. Nature Communications, 2015, 6, 6773.	5.8	74
118	Entorhinalâ€“hippocampal neuronal circuits bridge temporally discontiguous events. Learning and Memory, 2015, 22, 438-443.	0.5	84
119	Arithmetic and local circuitry underlying dopamine prediction errors. Nature, 2015, 525, 243-246.	13.7	297
120	Dopamine Is Required for the Neural Representation and Control of Movement Vigor. Cell, 2015, 162, 1418-1430.	13.5	241
121	Optogenetic Destabilization of the Memory Trace in CA1: Insights into Reconsolidation and Retrieval Processes. Cerebral Cortex, 2017, 27, bhv282.	1.6	17
122	Optogenetic control of astrocytes: Is it possible to treat astrocyte-related epilepsy?. Brain Research Bulletin, 2015, 110, 20-25.	1.4	24
123	Young adult born neurons enhance hippocampal dependent performance via influences on bilateral networks. ELife, 2016, 5, .	2.8	40
124	Estimating Neural Background Input with Controlled and Fast Perturbations: A Bandwidth Comparison between Inhibitory Opsins and Neural Circuits. Frontiers in Neural Circuits, 2016, 10, 58.	1.4	3
125	Functional and topological diversity of LOV domain photoreceptors. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E1442-51.	3.3	125
126	Transient optogenetic inactivation of the medial entorhinal cortex biases the active population of hippocampal neurons. Hippocampus, 2016, 26, 246-260.	0.9	45
128	Optogenetic control of human neurons in organotypic brain cultures. Scientific Reports, 2016, 6, 24818.	1.6	56
129	Sensory Cortical Activity Is Related to the Selection of a Rhythmic Motor Action Pattern. Journal of Neuroscience, 2016, 36, 5596-5607.	1.7	29
130	Clock-driven vasopressin neurotransmission mediates anticipatory thirst prior to sleep. Nature, 2016, 537, 685-688.	13.7	130

#	Article	IF	Citations
131	Basal Ganglia Output Controls Active Avoidance Behavior. Journal of Neuroscience, 2016, 36, 10274-10284.	1.7	54
132	Probing pain pathways with light. Neuroscience, 2016, 338, 248-271.	1.1	19
133	Active Dendritic Properties and Local Inhibitory Input Enable Selectivity for Object Motion in Mouse Superior Colliculus Neurons. Journal of Neuroscience, 2016, 36, 9111-9123.	1.7	76
134	Archaerhodopsin Selectively and Reversibly Silences Synaptic Transmission through Altered pH. Cell Reports, 2016, 16, 2259-2268.	2.9	72
135	The lightâ€driven sodium ion pump: A new player in rhodopsin research. BioEssays, 2016, 38, 1274-1282.	1.2	23
136	Cortical Control of Spatial Resolution by VIP⁺Interneurons. Journal of Neuroscience, 2016, 36, 11498-11509.	1.7	47
137	Fiberless multicolor neural optoelectrode for in vivo circuit analysis. Scientific Reports, 2016, 6, 30961.	1.6	81
138	Is plasticity within the retrotrapezoid nucleus responsible for the recovery of the setâ€point after carotid body denervation in rats?. Journal of Physiology, 2016, 594, 3371-3390.	1.3	16
139	Distinct Hippocampal Pathways Mediate Dissociable Roles of Context in Memory Retrieval. Cell, 2016, 167, 961-972.e16.	13.5	226
140	FEF inactivation with improved optogenetic methods. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E7297-E7306.	3.3	98
141	The current trends and future prospect of neural activity measurement by genetically-encoded voltage indicators. Drug Delivery System, 2016, 31, 119-126.	0.0	0
142	Dorso-Lateral Frontal Cortex of the Ferret Encodes Perceptual Difficulty during Visual Discrimination. Scientific Reports, 2016, 6, 23568.	1.6	17
143	Light-based Approaches to Cardiac Arrhythmia Research: From Basic Science to Translational Applications. Clinical Medicine Insights: Cardiology, 2016, 10s1, CMC.S39711.	0.6	7
144	Epidural optogenetics for controlled analgesia. Molecular Pain, 2016, 12, 174480691662905.	1.0	49
145	Viral vector-based tools advance knowledge of basal ganglia anatomy and physiology. Journal of Neurophysiology, 2016, 115, 2124-2146.	0.9	17
146	Current progress in genetically encoded voltage indicators for neural activity recording. Current Opinion in Chemical Biology, 2016, 33, 95-100.	2.8	21
147	Adaptive Acceleration of Visually Evoked Smooth Eye Movements in Mice. Journal of Neuroscience, 2016, 36, 6836-6849.	1.7	21
148	Basolateral amygdala projections to ventral hippocampus modulate the consolidation of footshock, but not contextual, learning in rats. Learning and Memory, 2016, 23, 51-60.	0.5	53

#	Article	IF	Citations
149	Mutant of a Light-Driven Sodium Ion Pump Can Transport Cesium Ions. Journal of Physical Chemistry Letters, 2016, 7, 51-55.	2.1	42
150	Cell-Targeted Optogenetics and Electrical Microstimulation Reveal the Primate Koniocellular Projection to Supra-granular Visual Cortex. Neuron, 2016, 90, 143-151.	3.8	82
151	A Large-Scale Interface for Optogenetic Stimulation and Recording in Nonhuman Primates. Neuron, 2016, 89, 927-939.	3.8	94
152	Recoding a cocaine-place memory engram to a neutral engram in the hippocampus. Nature Neuroscience, 2016, 19, 564-567.	7.1	112
153	Closed-loop firing rate regulation of two interacting excitatory and inhibitory neural populations of the basal ganglia. Biological Cybernetics, 2016, 110, 55-71.	0.6	17
154	Optogenetic Approaches to Target Specific Neural Circuits in Post-stroke Recovery. Neurotherapeutics, 2016, 13, 325-340.	2.1	34
155	The fiber-optic imaging and manipulation of neural activity during animal behavior. Neuroscience Research, 2016, 103, 1-9.	1.0	64
156	A comparison of the effects of male pheromone priming and optogenetic inhibition of accessory olfactory bulb forebrain inputs on the sexual behavior of estrous female mice. Hormones and Behavior, 2017, 89, 104-112.	1.0	28
157	Hippocampal Processing of Ambiguity Enhances Fear Memory. Psychological Science, 2017, 28, 143-161.	1.8	17
158	Genetically encoded bioluminescent voltage indicator for multi-purpose use in wide range of bioimaging. Scientific Reports, 2017, 7, 42398.	1.6	57
159	Driving and regulating temporal association learning coordinated by entorhinal-hippocampal network. Neuroscience Research, 2017, 121, 1-6.	1.0	22
160	Electrophysiological Properties and Viability of Neonatal Rat Ventricular Myocyte Cultures with Inducible ChR2 Expression. Scientific Reports, 2017, 7, 1531.	1.6	23
161	Visuomotor Coupling Shapes the Functional Development of Mouse Visual Cortex. Cell, 2017, 169, 1291-1302.e14.	13.5	159
162	Hypothalamic regulation of the sleep/wake cycle. Neuroscience Research, 2017, 118, 74-81.	1.0	51
163	From Synapse to Behavior: Optogenetic Tools for the Investigation of the Caenorhabditis elegans Nervous System. , 0, , 55-65.		0
164	Sodium and Engineered Potassium Light-Driven Pumps. , 2017, , 79-92.		5
165	Methods for Simultaneous Electrophysiology and Optogenetics In Vivo. , 0, , 93-108.		0
166	Bioluminescence Activation of Light-sensing Molecules. , 0, , 151-166.		0

#	Article	IF	Citations
167	Optogenetics for Neurological Disorders: What Is the Path to the Clinic?. , 0, , 169-180.		1
168	Optogenetic Control of Astroglia. , 0, , 181-195.		0
169	Blood Pressure Regulation by the Rostral Ventrolateral Medulla in Conscious Rats: Effects of Hypoxia, Hypercapnia, Baroreceptor Denervation, and Anesthesia. Journal of Neuroscience, 2017, 37, 4565-4583.	1.7	57
170	Distinct neural mechanisms for the control of thirst and salt appetite in the subfornical organ. Nature Neuroscience, 2017, 20, 230-241.	7.1	131
171	Optogenetic Tools for Subcellular Applications in Neuroscience. Neuron, 2017, 96, 572-603.	3.8	274
172	Optogenetic Modulation of a Minor Fraction of Parvalbumin-Positive Interneurons Specifically Affects Spatiotemporal Dynamics of Spontaneous and Sensory-Evoked Activity in Mouse Somatosensory Cortex in Vivo. Cerebral Cortex, 2017, 27, 5784-5803.	1.6	37
173	Under What Circumstances Do Rostral Ventrolateral Medulla Neurons Support Blood Pressure?. Journal of Neuroscience, 2017, 37, 8048-8050.	1.7	1
174	Modular organization of the brainstem noradrenaline system coordinates opposing learning states. Nature Neuroscience, 2017, 20, 1602-1611.	7.1	246
175	Effect of optogenetic manipulation of accumbal medium spiny neurons expressing dopamine D2 receptors in cocaineâ€induced behavioral sensitization. European Journal of Neuroscience, 2017, 46, 2056-2066.	1.2	10
176	Will optogenetics be used to treat chronic pain patients?. Pain Management, 2017, 7, 269-278.	0.7	7
177	Silencing Neurons: Tools, Applications, and Experimental Constraints. Neuron, 2017, 95, 504-529.	3.8	263
178	Optogenetic Modulation of CardiacÂSympathetic Nerve Activity toÂPrevent VentricularÂArrhythmias. Journal of the American College of Cardiology, 2017, 70, 2778-2790.	1.2	75
179	Epilepsy and optogenetics: can seizures be controlled by light?. Clinical Science, 2017, 131, 1605-1616.	1.8	27
180	Let There Be Lightâ€"Optoprobes for Neural Implants. Proceedings of the IEEE, 2017, 105, 101-138.	16.4	51
181	Patch-Clamp Recording from Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes: Improving Action Potential Characteristics through Dynamic Clamp. International Journal of Molecular Sciences, 2017, 18, 1873.	1.8	55
182	Dendritic Spikes in Sensory Perception. Frontiers in Cellular Neuroscience, 2017, 11, 29.	1.8	21
184	Microbial Rhodopsins. Sub-Cellular Biochemistry, 2018, 87, 19-56.	1.0	39
185	Cell-Type-Specific Contributions of Medial Prefrontal Neurons to Flexible Behaviors. Journal of Neuroscience, 2018, 38, 4490-4504.	1.7	66

#	Article	IF	Citations
186	Hippocampus-driven feed-forward inhibition of the prefrontal cortex mediates relapse of extinguished fear. Nature Neuroscience, 2018, 21, 384-392.	7.1	165
187	Dopamine neuron activity before action initiation gates and invigorates future movements. Nature, 2018, 554, 244-248.	13.7	416
188	Dynamic all-optical drug screening on cardiac voltage-gated ion channels. Scientific Reports, 2018, 8, 1153.	1.6	17
189	Interaction between hippocampal-prefrontal plasticity and thalamic-prefrontal activity. Scientific Reports, 2018, 8, 1382.	1.6	16
190	The power of optogenetics. Herzschrittmachertherapie Und Elektrophysiologie, 2018, 29, 24-29.	0.3	12
191	Optogenetic Control of the Melanin-Concentrating Hormone Expressing Neurons. , 2018, , 75-107.		0
192	Optogenetic silencing of a corticotropin-releasing factor pathway from the central amygdala to the bed nucleus of the stria terminalis disrupts sustained fear. Molecular Psychiatry, 2018, 23, 914-922.	4.1	72
193	Diminishing fear: Optogenetic approach toward understanding neural circuits of fear control. Pharmacology Biochemistry and Behavior, 2018, 174, 64-79.	1.3	10
194	Organization of dopamine and serotonin system: Anatomical and functional mapping of monosynaptic inputs using rabies virus. Pharmacology Biochemistry and Behavior, 2018, 174, 9-22.	1.3	32
195	Advances in optogenetic and chemogenetic methods to study brain circuits in non-human primates. Journal of Neural Transmission, 2018, 125, 547-563.	1.4	64
196	Parvalbumin-Positive Interneurons Regulate Neuronal Ensembles in Visual Cortex. Cerebral Cortex, 2018, 28, 1831-1845.	1.6	65
197	Optogenetics: Lighting a Path from the Laboratory to the Clinic. Neuromethods, 2018, , 277-300.	0.2	3
198	Multimodal Functional Neuroimaging by Simultaneous BOLD fMRI and Fiber-Optic Calcium Recordings and Optogenetic Control. Molecular Imaging and Biology, 2018, 20, 171-182.	1.3	44
199	Methods matter: A primer on permanent and reversible interference techniques in animals for investigators of human neuropsychology. Neuropsychologia, 2018, 115, 211-219.	0.7	9
200	Behavioral Manipulation by Optogenetics in the Nonhuman Primate. Neuroscientist, 2018, 24, 526-539.	2.6	21
201	Lightâ€induced regulation of ligandâ€gated channel activity. British Journal of Pharmacology, 2018, 175, 1892-1902.	2.7	25
202	Optogenetic and chemogenetic techniques for neurogastroenterology. Nature Reviews Gastroenterology and Hepatology, 2018, 15, 21-38.	8.2	40
203	Optogenetic manipulation of ENS - The brain in the gut. Life Sciences, 2018, 192, 18-25.	2.0	7

#	Article	IF	Citations
204	Sleep Counteracts Aging Phenotypes to Survive Starvation-Induced Developmental Arrest in C.Âelegans. Current Biology, 2018, 28, 3610-3624.e8.	1.8	44
205	Light-Activated Dynamic Clamp Using iPSC-Derived Cardiomyocytes. Biophysical Journal, 2018, 115, 2206-2217.	0.2	28
206	Dissecting Molecular and Circuit Mechanisms for Inhibition and Delayed Response of ASI Neurons during Nociceptive Stimulus. Cell Reports, 2018, 25, 1885-1897.e9.	2.9	6
207	Cardiac Electrophysiological Effects of Light-Activated Chloride Channels. Frontiers in Physiology, 2018, 9, 1806.	1.3	36
208	A Guide to Optogenetic Applications, With Special Focus on Behavioral and InÂVivo Electrophysiological Experiments. Handbook of Behavioral Neuroscience, 2018, 28, 263-284.	0.7	1
209	Light Control of the Tet Gene Expression System in Mammalian Cells. Cell Reports, 2018, 25, 487-500.e6.	2.9	62
210	Optical Approaches for Interrogating Neural Circuits Controlling Hormone Secretion. Endocrinology, 2018, 159, 3822-3833.	1.4	12
211	The role of the gustatory cortex in incidental experience-evoked enhancement of later taste learning. Learning and Memory, 2018, 25, 587-600.	0.5	15
212	Active dendritic integration and mixed neocortical network representations during an adaptive sensing behavior. Nature Neuroscience, 2018, 21, 1583-1590.	7.1	73
213	Optical and thermal simulations for the design of optodes for minimally invasive optogenetics stimulation or photomodulation of deep and large cortical areas in non-human primate brain. Journal of Neural Engineering, 2018, 15, 065004.	1.8	9
214	Layer 2/3 Pyramidal Neurons Control the Gain of Cortical Output. Cell Reports, 2018, 24, 2799-2807.e4.	2.9	54
215	Inactivation of Serotonergic Neurons in the Rostral Medullary RaphÃ© Attenuates Stress-Induced Tachypnea and Tachycardia in Mice. Frontiers in Physiology, 2018, 9, 832.	1.3	16
216	Neuromodulation Using Optogenetics and Related Technologies. , 2018, , 487-500.		0
217	Specificity, Versatility, and Continual Development: The Power of Optogenetics for Epilepsy Research. Frontiers in Cellular Neuroscience, 2018, 12, 151.	1.8	23
218	A Compact Closed-Loop Optogenetics System Based on Artifact-Free Transparent Graphene Electrodes. Frontiers in Neuroscience, 2018, 12, 132.	1.4	53
219	Optogenetics Dissection of Sleep Circuits and Functions. , 2018, , 535-564.		0
220	Lateral habenula perturbation reduces default-mode network connectivity in a rat model of depression. Translational Psychiatry, 2018, 8, 68.	2.4	25
221	Behavioral Strategy Determines Frontal or Posterior Location of Short-Term Memory in Neocortex. Neuron, 2018, 99, 814-828.e7.	3.8	105

#	Article	IF	Citations
222	Microbial Halorhodopsins: Light-Driven Chloride Pumps. Chemical Reviews, 2018, 118, 10629-10645.	23.0	64
223	Top-down feedback controls spatial summation and response amplitude in primate visual cortex. Nature Communications, 2018, 9, 2281.	5.8	141
224	Expanding the Toolbox of Upconversion Nanoparticles for In Vivo Optogenetics and Neuromodulation. Advanced Materials, 2019, 31, e1803474.	11.1	118
225	Silencing cortical activity during sound-localization training impairs auditory perceptual learning. Nature Communications, 2019, 10, 3075.	5.8	26
226	Activation of a lateral hypothalamic-ventral tegmental circuit gates motivation. PLoS ONE, 2019, 14, e0219522.	1.1	25
227	Approaches and Limitations in the Investigation of Synaptic Transmission and Plasticity. Frontiers in Synaptic Neuroscience, 2019, 11, 20.	1.3	41
228	Reassessing the Role of Histaminergic Tuberomammillary Neurons in Arousal Control. Journal of Neuroscience, 2019, 39, 8929-8939.	1.7	32
229	The Spatial Extent of Optogenetic Silencing in Transgenic Mice Expressing Channelrhodopsin in Inhibitory Interneurons. Cell Reports, 2019, 29, 1381-1395.e4.	2.9	28
230	Transplanted Cells Are Essential for the Induction But Not the Expression of Cortical Plasticity. Journal of Neuroscience, 2019, 39, 7529-7538.	1.7	11
231	A Critical Role for Neocortical Processing of Threat Memory. Neuron, 2019, 104, 1180-1194.e7.	3.8	73
232	Lateral hypothalamic fast-spiking parvalbumin neurons modulate nociception through connections in the periaqueductal gray area. Scientific Reports, 2019, 9, 12026.	1.6	14
234	Medial geniculate body and primary auditory cortex differentially contribute to striatal sound representations. Nature Communications, 2019, 10, 418.	5.8	37
235	Perspective Tools for Optogenetics and Photopharmacology: From Design to Implementation. Springer Series in Chemical Physics, 2019, , 139-172.	0.2	4
236	Optogenetic Hyperpolarization of Cardiomyocytes Terminates Ventricular Arrhythmia. Frontiers in Physiology, 2019, 10, 498.	1.3	28
237	Optogenetic approaches to study the mammalian brain. Current Opinion in Structural Biology, 2019, 57, 157-163.	2.6	42
238	Ventrolateral periaqueductal gray mediates rapid eye movement sleep regulation by melanin-concentrating hormone neurons. Neuroscience, 2019, 406, 314-324.	1.1	25
239	Design of a light-gated proton channel based on the crystal structure of Coccomyxa rhodopsin. Science Signaling, 2019, 12, .	1.6	24
240	Intraspinal and Intracortical Delivery of AAV Vectors for Intersectional Circuit Tracing in Non-transgenic Species. Methods in Molecular Biology, 2019, 1950, 165-176.	0.4	3

#	Article	IF	Citations
241	Two eARCHT3.0 Lines for Optogenetic Silencing of Dopaminergic and Serotonergic Neurons. Frontiers in Neural Circuits, 2019, 13, 4.	1.4	5
242	Optogenetics: Illuminating the Neural Circuits of Depression. , 2019, , 147-157.		3
243	A method for combining multiple-units readout of optogenetic control with natural stimulation-evoked eyeblink conditioning in freely-moving mice. Scientific Reports, 2019, 9, 1857.	1.6	7
244	Primate optogenetics: Progress and prognosis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26195-26203.	3.3	65
245	Optogenetics: Tools for Controlling Brain Cells with Light. Molecular Frontiers Journal, 2019, 03, 129-137.	0.9	0
246	Transgenic Archaerhodopsin-3 Expression in Hypocretin/Orexin Neurons Engenders Cellular Dysfunction and Features of Type 2 Narcolepsy. Journal of Neuroscience, 2019, 39, 9435-9452.	1.7	12
247	Wiring the depressed brain: optogenetic and chemogenetic circuit interrogation in animal models of depression. Neuropsychopharmacology, 2019, 44, 1013-1026.	2.8	64
248	Illuminating the Activated Brain: Emerging Activity-Dependent Tools to Capture and Control Functional Neural Circuits. Neuroscience Bulletin, 2019, 35, 369-377.	1.5	18
249	What do we know about laminar connectivity?. NeuroImage, 2019, 197, 772-784.	2.1	51
250	Contemporary strategies for dissecting the neuronal basis of neurodevelopmental disorders. Neurobiology of Learning and Memory, 2019, 165, 106835.	1.0	5
251	Optogenetic stimulation of serotonin nuclei retrieve the lost memory in Alzheimer's disease. Journal of Cellular Physiology, 2020, 235, 836-847.	2.0	19
252	Optogenetic Modulation for the Treatment of Traumatic Brain Injury. Stem Cells and Development, 2020, 29, 187-197.	1.1	3
253	Adeno-Associated Viral Vectors in Neuroscience Research. Molecular Therapy - Methods and Clinical Development, 2020, 17, 69-82.	1.8	76
254	An Open Resource for Non-human Primate Optogenetics. Neuron, 2020, 108, 1075-1090.e6.	3.8	79
255	Gene delivery to neurons in the auditory brainstem of barn owls using standard recombinant adeno-associated virus vectors. Current Research in Neurobiology, 2020, 1, 100001.	1.1	2
256	Off-Peak 594-nm Light Surpasses On-Peak 532-nm Light in Silencing Distant ArchT-Expressing Neurons InÂVivo. IScience, 2020, 23, 101276.	1.9	7
257	Innovations in the Neurosurgical Management of Epilepsy. World Neurosurgery, 2020, 139, 775-788.	0.7	8
258	Orchestrating Opiate-Associated Memories in Thalamic Circuits. Neuron, 2020, 107, 1113-1123.e4.	3.8	65

#	Article	IF	Citations
259	Advanced Electrical and Optical Microsystems for Biointerfacing. Advanced Intelligent Systems, 2020, 2, 2000091.	3.3	16
260	Functional interrogation of neural circuits with virally transmitted optogenetic tools. Journal of Neuroscience Methods, 2020, 345, 108905.	1.3	13
261	A Disinhibitory Circuit for Contextual Modulation in Primary Visual Cortex. Neuron, 2020, 108, 1181-1193.e8.	3.8	77
262	Insights Into Spinal Dorsal Horn Circuit Function and Dysfunction Using Optical Approaches. Frontiers in Neural Circuits, 2020, 14, 31.	1.4	22
263	The OptoGenBox â€“ a device for long-term optogenetics in C. elegans. Journal of Neurogenetics, 2020, 34, 466-474.	0.6	7
264	Optogenetic translocation of protons out of penumbral neurons is protective in a rodent model of focal cerebral ischemia. Brain Stimulation, 2020, 13, 881-890.	0.7	11
265	Somatostatin-Expressing Interneurons in the Auditory Cortex Mediate Sustained Suppression by Spectral Surround. Journal of Neuroscience, 2020, 40, 3564-3575.	1.7	39
266	A virtual reality system to analyze neural activity and behavior in adult zebrafish. Nature Methods, 2020, 17, 343-351.	9.0	53
267	A wake-active locomotion circuit depolarizes a sleep-active neuron to switch on sleep. PLoS Biology, 2020, 18, e3000361.	2.6	19
268	Top-Down Feedback Controls the Cortical Representation of Illusory Contours in Mouse Primary Visual Cortex. Journal of Neuroscience, 2020, 40, 648-660.	1.7	42
269	Virus Vectors for Optogenetic Prosthetization of the Retina. Neuroscience and Behavioral Physiology, 2020, 50, 358-366.	0.2	1
270	Complementary roles of differential medial entorhinal cortex inputs to the hippocampus for the formation and integration of temporal and contextual memory (Systems Neuroscience). European Journal of Neuroscience, 2021, 54, 6762-6779.	1.2	19
271	An update on memory formation and retrieval: An engramâ€¢centric approach. Alzheimer's and Dementia, 2020, 16, 926-937.	0.4	10
272	Human Stem Cell-Derived Neurons Repair Circuits and Restore Neural Function. Cell Stem Cell, 2021, 28, 112-126.e6.	5.2	88
273	The Challenge of Gene Therapy for Neurological Diseases: Strategies and Tools to Achieve Efficient Delivery to the Central Nervous System. Human Gene Therapy, 2021, 32, 349-374.	1.4	21
274	Mediodorsal and Ventromedial Thalamus Engage Distinct L1 Circuits in the Prefrontal Cortex. Neuron, 2021, 109, 314-330.e4.	3.8	85
275	Imaging and optogenetic modulation of vascular mural cells in the live brain. Nature Protocols, 2021, 16, 472-496.	5.5	32
276	Cardiac optogenetics: a decade of enlightenment. Nature Reviews Cardiology, 2021, 18, 349-367.	6.1	97

#	Article	IF	Citations
277	Cell-Type-Specific Optogenetic Techniques Reveal Neural Circuits Crucial for Episodic Memories. Advances in Experimental Medicine and Biology, 2021, 1293, 429-447.	0.8	3
278	Structures of the archaerhodopsin-3 transporter reveal that disordering of internal water networks underpins receptor sensitization. Nature Communications, 2021, 12, 629.	5.8	22
279	Optogenetics. , 2021, , 283-302.		1
280	AAV1 is the optimal viral vector for optogenetic experiments in pigeons (Columba livia). Communications Biology, 2021, 4, 100.	2.0	28
284	Single cell plasticity and population coding stability in auditory thalamus upon associative learning. Nature Communications, 2021, 12, 2438.	5.8	37
285	A thalamo-amygdalar circuit underlying the extinction of remote fear memories. Nature Neuroscience, 2021, 24, 964-974.	7.1	44
286	Neurostimulation for Stroke Rehabilitation. Frontiers in Neuroscience, 2021, 15, 649459.	1.4	22
287	Corticotropin-Releasing Hormone from the Pontine Micturition Center Plays an Inhibitory Role in Micturition. Journal of Neuroscience, 2021, 41, 7314-7325.	1.7	6
288	Gap Junctions Between Striatal D1 Neurons and Cholinergic Interneurons. Frontiers in Cellular Neuroscience, 2021, 15, 674399.	1.8	2
290	Synaptic disruption and CREBâ€regulated transcription are restored by K ⁺ channel blockers in ALS. EMBO Molecular Medicine, 2021, 13, e13131.	3.3	22
291	Combining brain perturbation and neuroimaging in non-human primates. NeuroImage, 2021, 235, 118017.	2.1	50
292	A locus coeruleus to dentate gyrus noradrenergic circuit modulates aversive contextual processing. Neuron, 2021, 109, 2116-2130.e6.	3.8	40
293	Limited functional convergence of eye-specific inputs in the retinogeniculate pathway of the mouse. Neuron, 2021, 109, 2457-2468.e12.	3.8	23
294	Neurohumoral Cardiac Regulation: Optogenetics Gets Into the Groove. Frontiers in Physiology, 2021, 12, 726895.	1.3	14
295	Advances and prospects of rhodopsin-based optogenetics in plant research. Plant Physiology, 2021, 187, 572-589.	2.3	6
296	Functional organization of the midbrain periaqueductal gray for regulating aversive memory formation. Molecular Brain, 2021, 14, 136.	1.3	13
297	Marmosets: a promising model for probing the neural mechanisms underlying complex visual networks such as the frontalâ€“parietal network. Brain Structure and Function, 2021, 226, 3007-3022.	1.2	8
299	Optogenetic Control of Arrhythmias. , 2021, , 363-379.		0

#	Article	IF	Citations
300	Diversity, Mechanism, and Optogenetic Application of Light-Driven Ion Pump Rhodopsins. Advances in Experimental Medicine and Biology, 2021, 1293, 89-126.	0.8	16
301	Inscribing Optical Excitability to Non-Excitable Cardiac Cells: Viral Delivery of Optogenetic Tools in Primary Cardiac Fibroblasts. Methods in Molecular Biology, 2016, 1408, 303-317.	0.4	22
302	Combining Optogenetics with MEA, Depth-Resolved LFPs and Assessing the Scope of Optogenetic Network Modulation. Neuromethods, 2018, , 133-152.	0.2	5
303	Potential of Optogenetics for the Behavior Manipulation of Non-human Primates. , 2015, , 279-290.		6
304	General Description: Future Prospects of Optogenetics. , 2015, , 111-131.		3
305	CHAPTER 10. Optogenetic and Chemogenetic Tools for Drug Discovery in Schizophrenia. RSC Drug Discovery Series, 2015, , 234-272.	0.2	1
306	Optogenetic inhibition of the colon epithelium reduces hypersensitivity in a mouse model of inflammatory bowel disease. Pain, 2021, 162, 1126-1134.	2.0	13
312	Neuronal gain modulability is determined by dendritic morphology: A computational optogenetic study. PLoS Computational Biology, 2018, 14, e1006027.	1.5	19
313	Coordination of Fictive Motor Activity in the Larval Zebrafish Is Generated by Non-Segmental Mechanisms. PLoS ONE, 2014, 9, e109117.	1.1	22
314	Inhibiting the Activity of CA1 Hippocampal Neurons Prevents the Recall of Contextual Fear Memory in Inducible ArchT Transgenic Mice. PLoS ONE, 2015, 10, e0130163.	1.1	11
315	A Chimera Na+-Pump Rhodopsin as an Effective Optogenetic Silencer. PLoS ONE, 2016, 11, e0166820.	1.1	28
318	Optogenetic methods and technologies in solving applied medical problems. Bulletin of Siberian Medicine, 2020, 19, 195-203.	0.1	1
319	A Suite of Transgenic Driver and Reporter Mouse Lines with Enhanced Brain Cell Type Targeting and Functionality. SSRN Electronic Journal, 0, , .	0.4	2
320	Drug Screening with Genetically Encoded Fluorescent Sensors: Today and Tomorrow. International Journal of Molecular Sciences, 2021, 22, 148.	1.8	13
321	Optogenetics and its application in neural degeneration and regeneration. Neural Regeneration Research, 2017, 12, 1197.	1.6	42
322	Active avoidance requires inhibitory signaling in the rodent prelimbic prefrontal cortex. ELife, 2018, 7, .	2.8	66
323	Functional properties of stellate cells in medial entorhinal cortex layer II. ELife, 2018, 7, .	2.8	62
324	Targeting light-gated chloride channels to neuronal somatodendritic domain reduces their excitatory effect in the axon. ELife, 2018, 7, .	2.8	64

#	Article	IF	Citations
325	PARIS, an optogenetic method for functionally mapping gap junctions. ELife, 2019, 8, .	2.8	29
326	Impact of precisely-timed inhibition of gustatory cortex on taste behavior depends on single-trial ensemble dynamics. ELife, 2019, 8, .	2.8	40
327	Disrupting Epileptiform Activity by Preventing Parvalbumin Interneuron Depolarization Block. Journal of Neuroscience, 2021, 41, 9452-9465.	1.7	25
328	Optogenetics. , 2014, , 1-5.		0
329	Optogenetics. , 2014, , 269-282.		0
330	Optogenetic Approaches to Restoring Intrinsic Visual Processing Features in Retinal Ganglion Cells. , 2015, , 353-365.		0
331	Optogenetic strategies for the treatment of neurodegenerative diseases. Anatomy, 2015, 9, 177-181.	0.2	0
334	Optogenetic Methods to Study Lateralized Synaptic Function. Neuromethods, 2017, , 331-365.	0.2	0
335	Revolutionizing Causal Circuitry Neurostimulation Utilizing the Optogenetic Technique Through Advanced Microsystems Development. Series in Bioengineering, 2017, , 61-80.	0.3	0
343	Optogenetics for cardiac pacing, resynchronization, and arrhythmia termination. , 2020, , 861-890.		0
348	An Optogenetic Tool to Raise Intracellular pH in Single Cells and Drive Localized Membrane Dynamics. Journal of the American Chemical Society, 2021, 143, 18877-18887.	6.6	17
349	Optogenetic Inhibition of Na_v1.8 Expressing Corneal Afferents Reduces Persistent Dry Eye Pain. , 2021, 62, 15.		4
350	Dopamine promotes aggression in mice via ventral tegmental area to lateral septum projections. Nature Communications, 2021, 12, 6796.	5.8	38
351	Corticothalamic projections deliver enhanced responses to medial geniculate body as a function of the temporal reliability of the stimulus. Journal of Physiology, 2021, 599, 5465-5484.	1.3	9
353	Towards translational optogenetics. Nature Biomedical Engineering, 2023, 7, 349-369.	11.6	54
355	Optogenetics: implications for Alzheimerâ€™s disease research and therapy. Molecular Brain, 2022, 15, 20.	1.3	14
356	Contributions of Distinct Auditory Cortical Inhibitory Neuron Types to the Detection of Sounds in Background Noise. ENeuro, 2022, 9, ENEURO.0264-21.2021.	0.9	4
357	Post-traumatic stress disorder: clinical and translational neuroscience from cells to circuits. Nature Reviews Neurology, 2022, 18, 273-288.	4.9	111

#	Article	IF	Citations
358	Corticofugal regulation of predictive coding. ELife, 2022, 11, .	2.8	20
359	Hybrid fiber optic-fMRI for multimodal cell-specific recording and manipulation of neural activity in rodents. Neurophotonics, 2022, 9, 032206.	1.7	6
360	Divergent brainstem opioidergic pathways that coordinate breathing with pain and emotions. Neuron, 2022, 110, 857-873.e9.	3.8	49
361	Intracortical microstimulation pulse waveform and frequency recruits distinct spatiotemporal patterns of cortical neuron and neuropil activation. Journal of Neural Engineering, 2022, 19, 026024.	1.8	8
362	An optoelectronic neural interface approach for precise superposition of optical and electrical stimulation in flexible array structures. Biosensors and Bioelectronics, 2022, 205, 114090.	5.3	3
363	Activity and Coupling to Hippocampal Oscillations of Median Raphe GABAergic Cells in Awake Mice. Frontiers in Neural Circuits, 2021, 15, 784034.	1.4	4
366	Prefrontal pyramidal neurons are critical for all phases of working memory. Cell Reports, 2022, 39, 110659.	2.9	21
377	Interactions between brainstem neurons that regulate the motility to the stomach. Journal of Neuroscience, 0, , JN-RM-0419-22.	1.7	3
380	Optogenetic inactivation of the medial septum impairs long-term object recognition memory formation. Molecular Brain, 2022, 15, .	1.3	5
381	Optogenetics. , 2022, , 2561-2565.		0
383	Optogenetics at the presynapse. Nature Neuroscience, 2022, 25, 984-998.	7.1	37
384	Action suppression reveals opponent parallel control via striatal circuits. Nature, 2022, 607, 521-526.	13.7	21
385	A central alarm system that gates multi-sensory innate threat cues to the amygdala. Cell Reports, 2022, 40, 111222.	2.9	27
386	Rhodopsin-Based Optogenetics: Basics and Applications. Methods in Molecular Biology, 2022, , 71-100.	0.4	8
387	Nigrostriatal dopamine pathway regulates auditory discrimination behavior. Nature Communications, 2022, 13, .	5.8	9
388	Adult-born dentate granule cells promote hippocampal population sparsity. Nature Neuroscience, 2022, 25, 1481-1491.	7.1	37
389	Effects of optogenetic inhibition of a small fraction of parvalbumin-positive interneurons on the representation of sensory stimuli in mouse barrel cortex. Scientific Reports, 2022, 12, .	1.6	4
390	Activation of basal forebrain-to-lateral habenula circuitry drives reflexive aversion and suppresses feeding behavior. Scientific Reports, 2022, 12, .	1.6	6

#	Article	IF	Citations
391	A dive into the cell wall with Arabidopsis. Comptes Rendus - Biologies, 2022, 345, 41-60.	0.1	0
392	Optogenetics in taste research: A decade of enlightenment. Oral Diseases, 0, , .	1.5	0
393	Activation of the rostral nucleus accumbens shell by optogenetics induces cataplexy-like behavior in orexin neuron-ablated mice. Scientific Reports, 2023, 13, .	1.6	4
394	Glutamatergic and GABAergic neurons in pontine central gray mediate opposing valence-specific behaviors through a global network. Neuron, 2023, 111, 1486-1503.e7.	3.8	6
395	Mapping of clonal lineages across developmental stages in human neural differentiation. Cell Stem Cell, 2023, 30, 473-487.e9.	5.2	3
396	Optogenetics reveals paradoxical network stabilizations in hippocampal CA1 and CA3. Current Biology, 2023, 33, 1689-1703.e5.	1.8	2
397	Error-related signaling in nucleus accumbens D2 receptor-expressing neurons guides inhibition-based choice behavior in mice. Nature Communications, 2023, 14, .	5.8	8
398	Neuro-urology research: a comprehensive overview. , 2023, , 1-28.		0
401	Genetic Approaches for Neural Circuits Dissection in Non-human Primates. Neuroscience Bulletin, 0, , .	1.5	0
417	Cardiac optogenetics: shining light on signaling pathways. Pflugers Archiv European Journal of Physiology, 2023, 475, 1421-1437.	1.3	1