

Hongkui Zeng

List of Publications by Year in descending order

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Version: 2024-02-01

140
papers

34,611
citations

12322

69
h-index

10152

140
g-index

214
all docs

214
docs citations

214
times ranked

34035
citing authors

#	ARTICLE	IF	CITATIONS
1	Dense functional and molecular readout of a circuit hub in sensory cortex. <i>Science</i> , 2022, 375, eab15981.	6.0	36
2	Synaptic connectivity to L2/3 of primary visual cortex measured by two-photon optogenetic stimulation. <i>ELife</i> , 2022, 11, .	2.8	35
3	Voltage imaging in the olfactory bulb using transgenic mouse lines expressing the genetically encoded voltage indicator ArcLight. <i>Scientific Reports</i> , 2022, 12, 1875.	1.6	8
4	Petabyte-Scale Multi-Morphometry of Single Neurons for Whole Brains. <i>Neuroinformatics</i> , 2022, 20, 525-536.	1.5	14
5	Local connectivity and synaptic dynamics in mouse and human neocortex. <i>Science</i> , 2022, 375, eabj5861.	6.0	124
6	Single cell enhancer activity distinguishes GABAergic and cholinergic lineages in embryonic mouse basal ganglia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2108760119.	3.3	15
7	Cross-modal coherent registration of whole mouse brains. <i>Nature Methods</i> , 2022, 19, 111-118.	9.0	36
8	Single-cell transcriptomic classification of rabies-infected cortical neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	19
9	A gene-expression axis defines neuron behaviour. <i>Nature</i> , 2022, 607, 243-244.	13.7	1
10	Intersectional mapping of multi-transmitter neurons and other cell types in the brain. <i>Cell Reports</i> , 2022, 40, 111036.	2.9	9
11	Phenotypic variation of transcriptomic cell types in mouse motor cortex. <i>Nature</i> , 2021, 598, 144-150.	13.7	196
12	Regional, Layer, and Cell-Type-Specific Connectivity of the Mouse Default Mode Network. <i>Neuron</i> , 2021, 109, 545-559.e8.	3.8	94
13	Spatially resolved transcriptomics in neuroscience. <i>Nature Methods</i> , 2021, 18, 23-25.	9.0	65
14	Consistent cross-modal identification of cortical neurons with coupled autoencoders. <i>Nature Computational Science</i> , 2021, 1, 120-127.	3.8	29
15	Alternating sources of perisomatic inhibition during behavior. <i>Neuron</i> , 2021, 109, 997-1012.e9.	3.8	67
16	Functional enhancer elements drive subclass-selective expression from mouse to primate neocortex. <i>Cell Reports</i> , 2021, 34, 108754.	2.9	88
17	Relationship between simultaneously recorded spiking activity and fluorescence signal in GCaMP6 transgenic mice. <i>ELife</i> , 2021, 10, .	2.8	114
18	Enhancer viruses for combinatorial cell-subclass-specific labeling. <i>Neuron</i> , 2021, 109, 1449-1464.e13.	3.8	93

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19	A taxonomy of transcriptomic cell types across the isocortex and hippocampal formation. <i>Cell</i> , 2021, 184, 3222-3241.e26.	13.5	479
20	Control of impulsivity by Gi-protein signalling in layer-5 pyramidal neurons of the anterior cingulate cortex. <i>Communications Biology</i> , 2021, 4, 662.	2.0	15
21	Scaled, high fidelity electrophysiological, morphological, and transcriptomic cell characterization. <i>ELife</i> , 2021, 10, .	2.8	33
22	Signature morpho-electric, transcriptomic, and dendritic properties of human layer 5 neocortical pyramidal neurons. <i>Neuron</i> , 2021, 109, 2914-2927.e5.	3.8	54
23	Single-cell and single-nucleus RNA-seq uncovers shared and distinct axes of variation in dorsal LGN neurons in mice, non-human primates, and humans. <i>ELife</i> , 2021, 10, .	2.8	41
24	Survey of spiking in the mouse visual system reveals functional hierarchy. <i>Nature</i> , 2021, 592, 86-92.	13.7	284
25	A transcriptomic and epigenomic cell atlas of the mouse primary motor cortex. <i>Nature</i> , 2021, 598, 103-110.	13.7	166
26	Laminar distribution and arbor density of two functional classes of thalamic inputs to primary visual cortex. <i>Cell Reports</i> , 2021, 37, 109826.	2.9	6
27	Morphological diversity of single neurons in molecularly defined cell types. <i>Nature</i> , 2021, 598, 174-181.	13.7	180
28	Isoform cell-type specificity in the mouse primary motor cortex. <i>Nature</i> , 2021, 598, 195-199.	13.7	52
29	Human neocortical expansion involves glutamatergic neuron diversification. <i>Nature</i> , 2021, 598, 151-158.	13.7	160
30	Comparative cellular analysis of motor cortex in human, marmoset and mouse. <i>Nature</i> , 2021, 598, 111-119.	13.7	361
31	A multimodal cell census and atlas of the mammalian primary motor cortex. <i>Nature</i> , 2021, 598, 86-102.	13.7	316
32	Cellular anatomy of the mouse primary motor cortex. <i>Nature</i> , 2021, 598, 159-166.	13.7	117
33	Spatially resolved cell atlas of the mouse primary motor cortex by MERFISH. <i>Nature</i> , 2021, 598, 137-143.	13.7	205
34	Transcriptional network orchestrating regional patterning of cortical progenitors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	25
35	A large-scale standardized physiological survey reveals functional organization of the mouse visual cortex. <i>Nature Neuroscience</i> , 2020, 23, 138-151.	7.1	232
36	Distinct Transcriptomic Cell Types and Neural Circuits of the Subiculum and Prosubiculum along the Dorsal-Ventral Axis. <i>Cell Reports</i> , 2020, 31, 107648.	2.9	49

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37	Brainwide Genetic Sparse Cell Labeling to Illuminate the Morphology of Neurons and Glia with Cre-Dependent MORF Mice. <i>Neuron</i> , 2020, 108, 111-127.e6.	3.8	37
38	A community-based transcriptomics classification and nomenclature of neocortical cell types. <i>Nature Neuroscience</i> , 2020, 23, 1456-1468.	7.1	183
39	Integrated Morphoelectric and Transcriptomic Classification of Cortical GABAergic Cells. <i>Cell</i> , 2020, 183, 935-953.e19.	13.5	290
40	A collection of genetic mouse lines and related tools for inducible and reversible intersectional misexpression. <i>Development (Cambridge)</i> , 2020, 147, .	1.2	10
41	The Allen Mouse Brain Common Coordinate Framework: A 3D Reference Atlas. <i>Cell</i> , 2020, 181, 936-953.e20.	13.5	597
42	Fundamental bounds on the fidelity of sensory cortical coding. <i>Nature</i> , 2020, 580, 100-105.	13.7	146
43	RecV recombinase system for in vivo targeted optogenomic modifications of single cells or cell populations. <i>Nature Methods</i> , 2020, 17, 422-429.	9.0	36
44	Projection-specific Activity of Layer 2/3 Neurons Imaged in Mouse Primary Somatosensory Barrel Cortex During a Whisker Detection Task. <i>Function</i> , 2020, 1, zqaa008.	1.1	10
45	The Mouse Claustrum Is Required for Optimal Behavioral Performance Under High Cognitive Demand. <i>Biological Psychiatry</i> , 2020, 88, 719-726.	0.7	40
46	Common cell type nomenclature for the mammalian brain. <i>ELife</i> , 2020, 9, .	2.8	56
47	TeraVR empowers precise reconstruction of complete 3-D neuronal morphology in the whole brain. <i>Nature Communications</i> , 2019, 10, 3474.	5.8	64
48	Multimodal Analysis of Cell Types in a Hypothalamic Node Controlling Social Behavior. <i>Cell</i> , 2019, 179, 713-728.e17.	13.5	186
49	Hierarchical organization of cortical and thalamic connectivity. <i>Nature</i> , 2019, 575, 195-202.	13.7	421
50	Genetic Identification of Vagal Sensory Neurons That Control Feeding. <i>Cell</i> , 2019, 179, 1129-1143.e23.	13.5	265
51	Conserved cell types with divergent features in human versus mouse cortex. <i>Nature</i> , 2019, 573, 61-68.	13.7	1,198
52	Visual Cortex Gains Independence from Peripheral Drive before Eye Opening. <i>Neuron</i> , 2019, 104, 711-723.e3.	3.8	53
53	Intersectional monosynaptic tracing for dissecting subtype-specific organization of GABAergic interneuron inputs. <i>Nature Neuroscience</i> , 2019, 22, 492-502.	7.1	39
54	Neuronal cell-subtype specificity of neural synchronization in mouse primary visual cortex. <i>Nature Communications</i> , 2019, 10, 2533.	5.8	30

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55	Classification of electrophysiological and morphological neuron types in the mouse visual cortex. <i>Nature Neuroscience</i> , 2019, 22, 1182-1195.	7.1	333
56	Voltage imaging and optogenetics reveal behaviour-dependent changes in hippocampal dynamics. <i>Nature</i> , 2019, 569, 413-417.	13.7	255
57	Connectional architecture of a mouse hypothalamic circuit node controlling social behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 7503-7512.	3.3	113
58	<i>In vivo</i> sub-millisecond two-photon optogenetics with temporally focused patterned light. <i>Journal of Neuroscience</i> , 2019, 39, 1785-18.	1.7	53
59	A gut-to-brain signal of fluid osmolarity controls thirst satiation. <i>Nature</i> , 2019, 568, 98-102.	13.7	98
60	Autonomous patch-clamp robot for functional characterization of neurons in vivo: development and application to mouse visual cortex. <i>Journal of Neurophysiology</i> , 2019, 121, 2341-2357.	0.9	26
61	Volumetric Ca ²⁺ Imaging in the Mouse Brain Using Hybrid Multiplexed Sculpted Light Microscopy. <i>Cell</i> , 2019, 177, 1050-1066.e14.	13.5	148
62	Kilohertz two-photon brain imaging in awake mice. <i>Nature Methods</i> , 2019, 16, 1119-1122.	9.0	74
63	High-resolution data-driven model of the mouse connectome. <i>Network Neuroscience</i> , 2019, 3, 217-236.	1.4	69
64	Single-cell transcriptomic evidence for dense intracortical neuropeptide networks. <i>ELife</i> , 2019, 8, .	2.8	98
65	Generalized leaky integrate-and-fire models classify multiple neuron types. <i>Nature Communications</i> , 2018, 9, 709.	5.8	164
66	Nontoxic, double-deletion-mutant rabies viral vectors for retrograde targeting of projection neurons. <i>Nature Neuroscience</i> , 2018, 21, 638-646.	7.1	171
67	Systematic generation of biophysically detailed models for diverse cortical neuron types. <i>Nature Communications</i> , 2018, 9, 710.	5.8	123
68	Generation of a whole-brain atlas for the cholinergic system and mesoscopic projectome analysis of basal forebrain cholinergic neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 415-420.	3.3	241
69	Mesoscale connectomics. <i>Current Opinion in Neurobiology</i> , 2018, 50, 154-162.	2.0	59
70	Preparation of Acute Brain Slices Using an Optimized N-Methyl-D-glucamine Protective Recovery Method. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	182
71	Single-nucleus and single-cell transcriptomes compared in matched cortical cell types. <i>PLoS ONE</i> , 2018, 13, e0209648.	1.1	400
72	Flexible Learning-Free Segmentation and Reconstruction of Neural Volumes. <i>Scientific Reports</i> , 2018, 8, 14247.	1.6	12

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73	Distinct descending motor cortex pathways and their roles in movement. <i>Nature</i> , 2018, 563, 79-84.	13.7	320
74	Shared and distinct transcriptomic cell types across neocortical areas. <i>Nature</i> , 2018, 563, 72-78.	13.7	1,323
75	Cell-nonautonomous local and systemic responses to cell arrest enable long-bone catch-up growth in developing mice. <i>PLoS Biology</i> , 2018, 16, e2005086.	2.6	38
76	Enteroendocrine cells switch hormone expression along the crypt-to-villus BMP signalling gradient. <i>Nature Cell Biology</i> , 2018, 20, 909-916.	4.6	188
77	A Suite of Transgenic Driver and Reporter Mouse Lines with Enhanced Brain-Cell-Type Targeting and Functionality. <i>Cell</i> , 2018, 174, 465-480.e22.	13.5	571
78	Sparse recurrent excitatory connectivity in the microcircuit of the adult mouse and human cortex. <i>ELife</i> , 2018, 7, .	2.8	142
79	Organization of the connections between claustrum and cortex in the mouse. <i>Journal of Comparative Neurology</i> , 2017, 525, spc1-spc1.	0.9	1
80	Diverse Central Projection Patterns of Retinal Ganglion Cells. <i>Cell Reports</i> , 2017, 18, 2058-2072.	2.9	215
81	Identification of preoptic sleep neurons using retrograde labelling and gene profiling. <i>Nature</i> , 2017, 545, 477-481.	13.7	246
82	Specific connections of the interpeduncular subnuclei reveal distinct components of the habenulopeduncular pathway. <i>Journal of Comparative Neurology</i> , 2017, 525, 2632-2656.	0.9	52
83	The BRAIN Initiative Cell Census Consortium: Lessons Learned toward Generating a Comprehensive Brain Cell Atlas. <i>Neuron</i> , 2017, 96, 542-557.	3.8	235
84	Neuronal cell-type classification: challenges, opportunities and the path forward. <i>Nature Reviews Neuroscience</i> , 2017, 18, 530-546.	4.9	664
85	Organization of the connections between claustrum and cortex in the mouse. <i>Journal of Comparative Neurology</i> , 2017, 525, 1317-1346.	0.9	162
86	Layer-specific chromatin accessibility landscapes reveal regulatory networks in adult mouse visual cortex. <i>ELife</i> , 2017, 6, .	2.8	73
87	Local processing in neurites of VGluT3-expressing amacrine cells differentially organizes visual information. <i>ELife</i> , 2017, 6, .	2.8	23
88	An R-CaMP1.07 reporter mouse for cell-type-specific expression of a sensitive red fluorescent calcium indicator. <i>PLoS ONE</i> , 2017, 12, e0179460.	1.1	47
89	Aberrant Cortical Activity in Multiple GCaMP6-Expressing Transgenic Mouse Lines. <i>ENeuro</i> , 2017, 4, ENEURO.0207-17.2017.	0.9	221
90	Neocortical Chandelier Cells Developmentally Shape Axonal Arbors through Reorganization but Establish Subcellular Synapse Specificity without Refinement. <i>ENeuro</i> , 2017, 4, ENEURO.0057-17.2017.	0.9	24

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91	Two-Photon Holographic Stimulation of ReaChR. <i>Frontiers in Cellular Neuroscience</i> , 2016, 10, 234.	1.8	63
92	Inferring cortical function in the mouse visual system through large-scale systems neuroscience. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 7337-7344.	3.3	82
93	Long-Term Optical Access to an Estimated One Million Neurons in the Live Mouse Cortex. <i>Cell Reports</i> , 2016, 17, 3385-3394.	2.9	209
94	Subpallial Enhancer Transgenic Lines: a Data and Tool Resource to Study Transcriptional Regulation of GABAergic Cell Fate. <i>Neuron</i> , 2016, 92, 59-74.	3.8	62
95	Genetically Targeted All-Optical Electrophysiology with a Transgenic Cre-Dependent Optopatch Mouse. <i>Journal of Neuroscience</i> , 2016, 36, 11059-11073.	1.7	76
96	Integration of autopatching with automated pipette and cell detection in vitro. <i>Journal of Neurophysiology</i> , 2016, 116, 1564-1578.	0.9	39
97	Resolution of High-Frequency Mesoscale Intracortical Maps Using the Genetically Encoded Glutamate Sensor iGluSnFR. <i>Journal of Neuroscience</i> , 2016, 36, 1261-1272.	1.7	88
98	Adult mouse cortical cell taxonomy revealed by single cell transcriptomics. <i>Nature Neuroscience</i> , 2016, 19, 335-346.	7.1	1,522
99	3D Image-Guided Automatic Pipette Positioning for Single Cell Experiments in vivo. <i>Scientific Reports</i> , 2015, 5, 18426.	1.6	26
100	Lineage Tracing Using Cux2-Cre and Cux2-CreERT2 Mice. <i>Neuron</i> , 2015, 86, 1091-1099.	3.8	73
101	Neuroinformatics of the Allen Mouse Brain Connectivity Atlas. <i>Methods</i> , 2015, 73, 4-17.	1.9	176
102	Adaptive Image Enhancement for Tracing 3D Morphologies of Neurons and Brain Vasculatures. <i>Neuroinformatics</i> , 2015, 13, 153-166.	1.5	39
103	Electron Microscopy at Scale. <i>Cell</i> , 2015, 162, 474-475.	13.5	4
104	Ca ²⁺ signaling in astrocytes from <i>Ip3r2^Δ/Δ mice in brain slices and during startle responses in vivo. <i>Nature Neuroscience</i>, 2015, 18, 708-717.</i>	7.1	411
105	Vasoactive Intestinal Polypeptide (VIP)-Expressing Neurons in the Suprachiasmatic Nucleus Provide Sparse GABAergic Outputs to Local Neurons with Circadian Regulation Occurring Distal to the Opening of Postsynaptic GABA _A Ionotropic Receptors. <i>Journal of Neuroscience</i> , 2015, 35, 1905-1920.	1.7	48
106	Transgenic Mice for Intersectional Targeting of Neural Sensors and Effectors with High Specificity and Performance. <i>Neuron</i> , 2015, 85, 942-958.	3.8	992
107	Validation of optical voltage reporting by the genetically encoded voltage indicator VSFP-Butterfly from cortical layer 2/3 pyramidal neurons in mouse brain slices. <i>Physiological Reports</i> , 2015, 3, e12468.	0.7	15
108	Correlated Gene Expression and Target Specificity Demonstrate Excitatory Projection Neuron Diversity. <i>Cerebral Cortex</i> , 2015, 25, 433-449.	1.6	125

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109	Anatomical characterization of Cre driver mice for neural circuit mapping and manipulation. <i>Frontiers in Neural Circuits</i> , 2014, 8, 76.	1.4	383
110	Transcriptional Regulation of Enhancers Active in Protodomains of the Developing Cerebral Cortex. <i>Neuron</i> , 2014, 82, 989-1003.	3.8	99
111	A mesoscale connectome of the mouse brain. <i>Nature</i> , 2014, 508, 207-214.	13.7	2,143
112	Systematic comparison of adeno-associated virus and biotinylated dextran amine reveals equivalent sensitivity between tracers and novel projection targets in the mouse brain. <i>Journal of Comparative Neurology</i> , 2014, 522, 1989-2012.	0.9	52
113	Virtual finger boosts three-dimensional imaging and microsurgery as well as terabyte volume image visualization and analysis. <i>Nature Communications</i> , 2014, 5, 4342.	5.8	109
114	Scalable control of mounting and attack by Esr1+ neurons in the ventromedial hypothalamus. <i>Nature</i> , 2014, 509, 627-632.	13.7	399
115	Cerebellar Purkinje cell activity drives motor learning. <i>Nature Neuroscience</i> , 2013, 16, 1734-1736.	7.1	116
116	Differential Control of Learning and Anxiety along the Dorsoventral Axis of the Dentate Gyrus. <i>Neuron</i> , 2013, 77, 955-968.	3.8	582
117	Olfactory cortical neurons read out a relative time code in the olfactory bulb. <i>Nature Neuroscience</i> , 2013, 16, 949-957.	7.1	186
118	Genetic Approaches to Neural Circuits in the Mouse. <i>Annual Review of Neuroscience</i> , 2013, 36, 183-215.	5.0	184
119	Medial Habenula Output Circuit Mediated by $\hat{\pm}5$ Nicotinic Receptor-Expressing GABAergic Neurons in the Interpeduncular Nucleus. <i>Journal of Neuroscience</i> , 2013, 33, 18022-18035.	1.7	74
120	A Cre-Dependent GCaMP3 Reporter Mouse for Neuronal Imaging <i>In Vivo</i> . <i>Journal of Neuroscience</i> , 2012, 32, 3131-3141.	1.7	341
121	Large-Scale Cellular-Resolution Gene Profiling in Human Neocortex Reveals Species-Specific Molecular Signatures. <i>Cell</i> , 2012, 149, 483-496.	13.5	342
122	Adeno-associated Viral Vectors for Anterograde Axonal Tracing with Fluorescent Proteins in Nontransgenic and Cre Driver Mice. <i>Current Protocols in Neuroscience</i> , 2012, 59, Unit 1.20.1-18.	2.6	65
123	Mouse transgenic approaches in optogenetics. <i>Progress in Brain Research</i> , 2012, 196, 193-213.	0.9	74
124	A toolbox of Cre-dependent optogenetic transgenic mice for light-induced activation and silencing. <i>Nature Neuroscience</i> , 2012, 15, 793-802.	7.1	1,153
125	Differential connectivity and response dynamics of excitatory and inhibitory neurons in visual cortex. <i>Nature Neuroscience</i> , 2011, 14, 1045-1052.	7.1	439
126	Visual Tuning Properties of Genetically Identified Layer 2/3 Neuronal Types in the Primary Visual Cortex of Cre-Transgenic Mice. <i>Frontiers in Systems Neuroscience</i> , 2011, 4, 162.	1.2	55

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127	A robust and high-throughput Cre reporting and characterization system for the whole mouse brain. <i>Nature Neuroscience</i> , 2010, 13, 133-140.	7.1	5,650
128	An Inducible and Reversible Mouse Genetic Rescue System. <i>PLoS Genetics</i> , 2008, 4, e1000069.	1.5	82
129	The Role of Kisspeptinâ€™GPR54 Signaling in the Tonic Regulation and Surge Release of Gonadotropin-Releasing Hormone/Luteinizing Hormone. <i>Journal of Neuroscience</i> , 2007, 27, 12088-12095.	1.7	190
130	Large-scale, saturating insertional mutagenesis of the mouse genome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14406-14411.	3.3	16
131	Thyrotropin-Releasing Hormone Receptor 1-Deficient Mice Display Increased Depression and Anxiety-Like Behavior. <i>Molecular Endocrinology</i> , 2007, 21, 2795-2804.	3.7	64
132	Neuromedin U Receptor 2-Deficient Mice Display Differential Responses in Sensory Perception, Stress, and Feeding. <i>Molecular and Cellular Biology</i> , 2006, 26, 9352-9363.	1.1	63
133	Phenotypic Analysis of Mice Deficient in the Type 2 Galanin Receptor (GALR2). <i>Molecular and Cellular Biology</i> , 2005, 25, 4804-4811.	1.1	76
134	The G protein-coupled receptor repertoires of human and mouse. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 4903-4908.	3.3	662
135	Conditional calcineurin knockout mice exhibit multiple abnormal behaviors related to schizophrenia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 8987-8992.	3.3	459
136	Forebrain-Specific Calcineurin Knockout Selectively Impairs Bidirectional Synaptic Plasticity and Working/Episodic-like Memory. <i>Cell</i> , 2001, 107, 617-629.	13.5	457
137	The timSL Mutant of the Drosophila Rhythm Gene timeless Manifests Allele-Specific Interactions with period Gene Mutants. <i>Neuron</i> , 1996, 17, 921-929.	3.8	108
138	A light-entrainment mechanism for the Drosophila circadian clock. <i>Nature</i> , 1996, 380, 129-135.	13.7	432
139	A Suite of Transgenic Driver and Reporter Mouse Lines with Enhanced Brain Cell Type Targeting and Functionality. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2
140	Neuronal Cell-Subtype Specificity of Neural Synchronization in Mouse Primary Visual Cortex. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0