Edward M Callaway

List of Publications by Year
in descending order

153	22,715	8755 75	10158 140
papers	citations	h-index	g-index

166	166	166	18286
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Monosynaptic Restriction of Transsynaptic Tracing from Single, Genetically Targeted Neurons. Neuron, 2007, 53, 639-647.	8.1	1,080
2	In vivo genome editing via CRISPR/Cas9 mediated homology-independent targeted integration. Nature, 2016, 540, 144-149.	27.8	906
3	Genetic dissection of an amygdala microcircuit that gates conditioned fear. Nature, 2010, 468, 270-276.	27.8	745
4	Genetic Dissection of Neural Circuits. Neuron, 2008, 57, 634-660.	8.1	714
5	Parallel processing strategies of the primate visual system. Nature Reviews Neuroscience, 2009, 10, 360-372.	10.2	627
6	Retrograde neuronal tracing with a deletion-mutant rabies virus. Nature Methods, 2007, 4, 47-49.	19.0	606
7	Brominated 7-hydroxycoumarin-4-ylmethyls: Photolabile protecting groups with biologically useful cross-sections for two photon photolysis. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 1193-1200.	7.1	592
8	Excitatory cortical neurons form fine-scale functional networks. Nature, 2005, 433, 868-873.	27.8	553
9	LOCAL CIRCUITS IN PRIMARY VISUAL CORTEX OF THE MACAQUE MONKEY. Annual Review of Neuroscience, 1998, 21, 47-74.	10.7	525
10	Cortical representations of olfactory input by trans-synaptic tracing. Nature, 2011, 472, 191-196.	27.8	478
11	Functional Specialization of Seven Mouse Visual Cortical Areas. Neuron, 2011, 72, 1040-1054.	8.1	422
12	Differential Innervation of Direct- and Indirect-Pathway Striatal Projection Neurons. Neuron, 2013, 79, 347-360.	8.1	408
13	A viral strategy for targeting and manipulating interneurons across vertebrate species. Nature Neuroscience, 2016, 19, 1743-1749.	14.8	396
14	Genetic Dissection of Neural Circuits: A Decade of Progress. Neuron, 2018, 98, 256-281.	8.1	374
15	Immunochemical characterization of inhibitory mouse cortical neurons: Three chemically distinct classes of inhibitory cells. Journal of Comparative Neurology, 2010, 518, 389-404.	1.6	373
16	Photostimulation using caged glutamate reveals functional circuitry in living brain slices.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 7661-7665.	7.1	370
17	Monosynaptic Circuit Tracing with Glycoprotein-Deleted Rabies Viruses. Journal of Neuroscience, 2015, 35, 8979-8985.	3.6	355
18	Fine-scale specificity of cortical networks depends on inhibitory cell type and connectivity. Nature Neuroscience, 2005, 8, 1552-1559.	14.8	348

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19	V1 spinal neurons regulate the speed of vertebrate locomotor outputs. Nature, 2006, 440, 215-219.	27.8	348
20	Emergence and refinement of clustered horizontal connections in cat striate cortex. Journal of Neuroscience, 1990, 10, 1134-1153.	3.6	334
21	Monosynaptic circuit tracing in vivo through Cre-dependent targeting and complementation of modified rabies virus. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21848-21853.	7.1	332
22	A multimodal cell census and atlas of the mammalian primary motor cortex. Nature, 2021, 598, 86-102.	27.8	316
23	Laminar sources of synaptic input to cortical inhibitory interneurons and pyramidal neurons. Nature Neuroscience, 2000, 3, 701-707.	14.8	300
24	New Rabies Virus Variants for Monitoring and Manipulating Activity and Gene Expression in Defined Neural Circuits. Neuron, 2011, 71, 617-631.	8.1	296
25	Topography and Areal Organization of Mouse Visual Cortex. Journal of Neuroscience, 2014, 34, 12587-12600.	3.6	295
26	Silencing preBÃ¶tzinger Complex somatostatin-expressing neurons induces persistent apnea in awake rat. Nature Neuroscience, 2008, 11, 538-540.	14.8	279
27	A dedicated circuit links direction-selective retinal ganglion cells to the primary visual cortex. Nature, 2014, 507, 358-361.	27.8	279
28	Three Types of Cortical Layer 5 Neurons That Differ in Brain-wide Connectivity and Function. Neuron, 2015, 88, 1253-1267.	8.1	273
29	Design and generation of recombinant rabies virus vectors. Nature Protocols, 2013, 8, 1583-1601.	12.0	257
30	Preferential labeling of inhibitory and excitatory cortical neurons by endogenous tropism of adeno-associated virus and lentivirus vectors. Neuroscience, 2009, 161, 441-450.	2.3	247
31	Monosynaptic inputs to new neurons in the dentate gyrus. Nature Communications, 2012, 3, 1107.	12.8	244
32	Transneuronal circuit tracing with neurotropic viruses. Current Opinion in Neurobiology, 2008, 18, 617-623.	4.2	232
33	Brains, Genes, and Primates. Neuron, 2015, 86, 617-631.	8.1	231
34	Distinct Hippocampal Pathways Mediate Dissociable Roles of Context in Memory Retrieval. Cell, 2016, 167, 961-972.e16.	28.9	226
35	Metabolic cost as a unifying principle governing neuronal biophysics. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12329-12334.	7.1	212
36	Parallel colour-opponent pathways to primary visual cortex. Nature, 2003, 426, 668-671.	27.8	211

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37	Laminar Specificity of Functional Input to Distinct Types of Inhibitory Cortical Neurons. Journal of Neuroscience, 2009, 29, 70-85.	3.6	203
38	A Disynaptic Relay from Superior Colliculus to Dorsal Stream Visual Cortex in Macaque Monkey. Neuron, 2010, 65, 270-279.	8.1	203
39	Improved Monosynaptic Neural Circuit Tracing Using Engineered Rabies Virus Glycoproteins. Cell Reports, 2016, 15, 692-699.	6.4	203
40	Targeting Single Neuronal Networks for Gene Expression and Cell Labeling In Vivo. Neuron, 2010, 67, 562-574.	8.1	196
41	Distributed and Mixed Information in Monosynaptic Inputs to Dopamine Neurons. Neuron, 2016, 91, 1374-1389.	8.1	195
42	Cell-Type-Specific Circuit Connectivity of Hippocampal CA1 Revealed through Cre-Dependent Rabies Tracing. Cell Reports, 2014, 7, 269-280.	6.4	184
43	Effects of binocular deprivation on the development of clustered horizontal connections in cat striate cortex.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 745-749.	7.1	183
44	Structure and function of parallel pathways in the primate early visual system. Journal of Physiology, 2005, 566, 13-19.	2.9	168
45	Mouse cortical inhibitory neuron type that coexpresses somatostatin and calretinin. Journal of Comparative Neurology, 2006, 499, 144-160.	1.6	165
46	Early Somatostatin Interneuron Connectivity Mediates the Maturation of Deep Layer Cortical Circuits. Neuron, 2016, 89, 521-535.	8.1	154
47	Anterior-Posterior Direction Opponency in the Superficial Mouse Lateral Geniculate Nucleus. Neuron, 2012, 76, 713-720.	8.1	152
48	Afferent Inputs to Neurotransmitter-Defined Cell Types in the Ventral Tegmental Area. Cell Reports, 2016, 15, 2796-2808.	6.4	145
49	Two Functional Channels from Primary Visual Cortex to Dorsal Visual Cortical Areas. Science, 2001, 292, 297-300.	12.6	144
50	A Genetic Method for Selective and Quickly Reversible Silencing of Mammalian Neurons. Journal of Neuroscience, 2002, 22, 5287-5290.	3.6	143
51	Brain-Wide Maps of Synaptic Input to Cortical Interneurons. Journal of Neuroscience, 2016, 36, 4000-4009.	3.6	143
52	Orthogonal micro-organization of orientation and spatial frequency in primate primary visual cortex. Nature Neuroscience, 2012, 15, 1683-1690.	14.8	141
53	Convergence of magno- and parvocellular pathways in layer 4B of macaque primary visual cortex. Nature, 1996, 380, 442-446.	27.8	139
54	Feedforward, feedback and inhibitory connections in primate visual cortex. Neural Networks, 2004, 17, 625-632.	5.9	137

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55	DNA methylation atlas of the mouse brain at single-cell resolution. Nature, 2021, 598, 120-128.	27.8	135
56	Redefining the boundaries of the hippocampal CA2 subfield in the mouse using gene expression and 3-dimensional reconstruction. Journal of Comparative Neurology, 2005, 485, 1-10.	1.6	134
57	Genetic-Based Dissection Unveils the Inputs and Outputs of Striatal Patch and Matrix Compartments. Neuron, 2016, 91, 1069-1084.	8.1	133
58	Higher-Order Thalamic Circuits Channel Parallel Streams of Visual Information in Mice. Neuron, 2019, 102, 477-492.e5.	8.1	133
59	Selective and Quickly Reversible Inactivation of Mammalian Neurons In Vivo Using the Drosophila Allatostatin Receptor. Neuron, 2006, 51, 157-170.	8.1	127
60	Stimulating neurons with light. Current Opinion in Neurobiology, 2002, 12, 587-592.	4.2	121
61	The Parvocellular LGN Provides a Robust Disynaptic Input to the Visual Motion Area MT. Neuron, 2006, 50, 319-327.	8.1	119
62	Targeted gene delivery to telencephalic inhibitory neurons by directional in utero electroporation. Journal of Neuroscience Methods, 2005, 143, 151-158.	2.5	115
63	Functional Streams and Local Connections of Layer 4C Neurons in Primary Visual Cortex of the Macaque Monkey. Journal of Neuroscience, 1998, 18, 9489-9499.	3.6	110
64	Contributions of individual layer 2â€“5 spiny neurons to local circuits in macaque primary visual cortex. Visual Neuroscience, 1996, 13, 907-922.	1.0	104
65	Optogenetics through windows on the brain in the nonhuman primate. Journal of Neurophysiology, 2013, 110, 1455-1467.	1.8	103
66	Color and orientation are jointly coded and spatially organized in primate primary visual cortex. Science, 2019, 364, 1275-1279.	12.6	100
67	S Cone Contributions to the Magnocellular Visual Pathway in Macaque Monkey. Neuron, 2002, 35, 1135-1146.	8.1	96
68	Short promoters in viral vectors drive selective expression in mammalian inhibitory neurons, but do not restrict activity to specific inhibitory cell-types. Frontiers in Neural Circuits, 2009, 3, 19.	2.8	95
69	Competition favouring inactive over active motor neurons during synapse elimination. Nature, 1987, 328, 422-426.	27.8	89
70	Excitatory Local Connections of Superficial Neurons in Rat Auditory Cortex. Journal of Neuroscience, 2008, 28, 11174-11185.	3.6	89
71	Layer-Specific Input to Distinct Cell Types in Layer 6 of Monkey Primary Visual Cortex. Journal of Neuroscience, 2001, 21, 3600-3608.	3.6	88
72	Pattern and Component Motion Responses in Mouse Visual Cortical Areas. Current Biology, 2015, 25, 1759-1764.	3.9	88

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73	Extraction of Distinct Neuronal Cell Types from within a Genetically Continuous Population. Neuron, 2020, 107, 274-282.e6.	8.1	88
74	Development of layer-specific axonal arborizations in mouse primary somatosensory cortex. Journal of Comparative Neurology, 2006, 494, 398-414.	1.6	87
75	A molecular and genetic arsenal for systems neuroscience. Trends in Neurosciences, 2005, 28, 196-201.	8.6	86
76	Developmental Sculpting of Dendritic Morphology of Layer 4 Neurons in Visual Cortex: Influence of Retinal Input. Journal of Neuroscience, 2011, 31, 7456-7470.	3.6	86
77	Automated identification of mouse visual areas with intrinsic signal imaging. Nature Protocols, 2017, 12, 32-43.	12.0	84
78	Multiple Circuits Relaying Primate Parallel Visual Pathways to the Middle Temporal Area. Journal of Neuroscience, 2006, 26, 12789-12798.	3.6	83
79	The Development of Local, Layer-Specific Visual Cortical Axons in the Absence of Extrinsic Influences and Intrinsic Activity. Journal of Neuroscience, 1998, 18, 4145-4154.	3.6	81
80	Local Connections to Specific Types of Layer 6 Neurons in the Rat Visual Cortex. Journal of Neurophysiology, 2006, 95, 1751-1761.	1.8	81
81	Contrast Dependence and Differential Contributions from Somatostatin- and Parvalbumin-Expressing Neurons to Spatial Integration in Mouse V1. Journal of Neuroscience, 2013, 33, 11145-11154.	3.6	74
82	Monosynaptic Projections to Excitatory and Inhibitory preBÃ¶tzinger Complex Neurons. Frontiers in Neuroanatomy, 2020, 14, 58.	1.7	74
83	Molecular layer perforant path-associated cells contribute to feed-forward inhibition in the adult dentate gyrus. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9106-9111.	7.1	73
84	Diversity and Cell Type Specificity of Local Excitatory Connections to Neurons in Layer 3B of Monkey Primary Visual Cortex. Neuron, 2000, 25, 459-471.	8.1	72
85	Retrograde tracing with recombinant rabies virus reveals correlations between projection targets and dendritic architecture in layer 5 of mouse barrel cortex. Frontiers in Neural Circuits, 2008, 1, 5.	2.8	72
86	Specialized Circuits from Primary Visual Cortex to V2 and Area MT. Neuron, 2007, 55, 799-808.	8.1	64
87	Transgenic Targeting of Recombinant Rabies Virus Reveals Monosynaptic Connectivity of Specific Neurons. Journal of Neuroscience, 2010, 30, 16509-16513.	3.6	63
88	Anatomical Identification of Extracellularly Recorded Cells in Large-Scale Multielectrode Recordings. Journal of Neuroscience, 2015, 35, 4663-4675.	3.6	63
89	Efficient Receptive Field Tiling in Primate V1. Neuron, 2016, 91, 893-904.	8.1	63
90	Imaging light responses of retinal ganglion cells in the living mouse eye. Journal of Neurophysiology, 2013, 109, 2415-2421.	1.8	61

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91	Cytochrome-oxidase blobs and intrinsic horizontal connections of layer 2/3 pyramidal neurons in primate V1. Visual Neuroscience, 1998, 15, 1007-1027.	1.0	60
92	Development of GABAergic inputs controls the contribution of maturing neurons to the adult hippocampal network. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4290-4295.	7.1	53
93	Morphological Substrates for Parallel Streams of Corticogeniculate Feedback Originating in Both V1 and V2 of the Macaque Monkey. Neuron, 2016, 90, 388-399.	8.1	52
94	Mapping Brain-Wide Afferent Inputs of Parvalbumin-Expressing GABAergic Neurons in Barrel Cortex Reveals Local and Long-Range Circuit Motifs. Cell Reports, 2019, 28, 3450-3461.e8.	6.4	52
95	Characterization of Long Descending Premotor Propriospinal Neurons in the Spinal Cord. Journal of Neuroscience, 2014, 34, 9404-9417.	3.6	51
96	Cell type specificity of local cortical connections. Journal of Neurocytology, 2002, 31, 231-237.	1.5	50
97	Visual Spatial Summation in Macaque Geniculocortical Afferents. Journal of Neurophysiology, 2006, 96, 3474-3484.	1.8	50
98	Two-Photon Imaging of Calcium in Virally Transfected Striate Cortical Neurons of Behaving Monkey. PLoS ONE, 2010, 5, e13829.	2.5	50
99	Sources of off-target expression from recombinase-dependent AAV vectors and mitigation with cross-over insensitive ATG-out vectors. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 27001-27010.	7.1	50
100	Context-dependent and dynamic functional influence of corticothalamic pathways to first- and higher-order visual thalamus. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13066-13077.	7.1	49
101	Prenatal Development of Layer-Specific Local Circuits in Primary Visual Cortex of the Macaque Monkey. Journal of Neuroscience, 1998, 18, 1505-1527.	3.6	47
102	Epigenomic diversity of cortical projection neurons in the mouse brain. Nature, 2021, 598, 167-173.	27.8	47
103	Molecular Fingerprinting of Onâ€“Off Direction-Selective Retinal Ganglion Cells Across Species and Relevance to Primate Visual Circuits. Journal of Neuroscience, 2019, 39, 78-95.	3.6	44
104	Topographic specificity of functional connections from hippocampal CA3 to CA1. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 2560-2565.	7.1	43
105	Laminar Patterns of Local Excitatory Input to Layer 5 Neurons in Macaque Primary Visual Cortex. Cerebral Cortex, 2005, 15, 479-488.	2.9	40
106	Diverse Representations of Olfactory Information in Centrifugal Feedback Projections. Journal of Neuroscience, 2016, 36, 7535-7545.	3.6	39
107	Intersectional monosynaptic tracing for dissecting subtype-specific organization of GABAergic interneuron inputs. Nature Neuroscience, 2019, 22, 492-502.	14.8	39
108	Centrifugal Inputs to the Main Olfactory Bulb Revealed Through Whole Brain Circuit-Mapping. Frontiers in Neuroanatomy, 2018, 12, 115.	1.7	39

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109	In vivo Evidence for Radial Migration of Neurons by Long-Distance Somal Translocation in the Developing Ferret Visual Cortex. Cerebral Cortex, 2006, 16, 1571-1583.	2.9	38
110	Reorganization of Exuberant Axonal Arbors Contributes to the Development of Laminar Specificity in Ferret Visual Cortex. Journal of Neuroscience, 2002, 22, 6682-6695.	3.6	37
111	Cell Type-Specific Control of Neuronal Responsiveness by Gamma-Band Oscillatory Inhibition. Journal of Neuroscience, 2010, 30, 2150-2159.	3.6	37
112	Nonlinearity of two-photon Ca²⁺imaging yields distorted measurements of tuning for V1 neuronal populations. Journal of Neurophysiology, 2012, 107, 923-936.	1.8	36
113	Selective viral vector transduction of ErbB4 expressing cortical interneurons in vivo with a viral receptorâ€“ligand bridge protein. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16703-16708.	7.1	35
114	Transgenic Silencing of Neurons in the Mammalian Brain by Expression of the Allatostatin Receptor (AlstR). Journal of Neurophysiology, 2009, 102, 2554-2562.	1.8	32
115	Targeting thalamic circuits rescues motor and mood deficits in PD mice. Nature, 2022, 607, 321-329.	27.8	32
116	Morphology of superior colliculusâ€•and middle temporal areaâ€projecting neurons in primate primary visual cortex. Journal of Comparative Neurology, 2012, 520, 52-80.	1.6	31
117	Development of axonal arbors of layer 6 pyramidal neurons in ferret primary visual cortex. Journal of Comparative Neurology, 1996, 376, 295-305.	1.6	29
118	Local and Global Influences of Visual Spatial Selection and Locomotion in Mouse Primary Visual Cortex. Current Biology, 2019, 29, 1592-1605.e5.	3.9	27
119	Optical control of retrogradely infected neurons using drug-regulated â€œTLoopâ€•lentiviral vectors. Journal of Neurophysiology, 2014, 111, 2150-2159.	1.8	24
120	Comment on â€œPrinciples of connectivity among morphologically defined cell types in adult neocortexâ€• Science, 2016, 353, 1108-1108.	12.6	24
121	A systematic topographical relationship between mouse lateral posterior thalamic neurons and their visual cortical projection targets. Journal of Comparative Neurology, 2020, 528, 99-111.	1.6	24
122	Slowing of synapse elimination by Î±-bungarotoxin superfusion of the neonatal rabbit soleus muscle. Developmental Biology, 1989, 131, 356-365.	2.0	21
123	Ocular dominance columns and local projections of layer 6 pyramidal neurons in macaque primary visual cortex. Visual Neuroscience, 1997, 14, 241-251.	1.0	21
124	Neural substrates within primary visual cortex for interactions between parallel visual pathways. Progress in Brain Research, 2005, 149, 59-64.	1.4	21
125	Distinct â€œdrivingâ€•versus â€œmodulatoryâ€•influences of different visual corticothalamic pathways. Current Biology, 2021, 31, 5121-5137.e7.	3.9	19
126	Single-cell transcriptomic classification of rabies-infected cortical neurons. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	19

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127	Development of visual cortical axons: Layer-specific effects of extrinsic influences and activity blockade. Journal of Comparative Neurology, 2001, 430, 321-331.	1.6	18
128	Cell Type-Specific Control of Spike Timing by Gamma-Band Oscillatory Inhibition. Cerebral Cortex, 2016, 26, bhv044.	2.9	18
129	Laminar Specificity of Local Circuits in Barrel Cortex of Ephrin-A5 Knockout Mice. Journal of Neuroscience, 2000, 20, RC88-RC88.	3.6	16
130	Monosynaptic inputs to ErbB4â€expressing inhibitory neurons in mouse primary somatosensory cortex. Journal of Comparative Neurology, 2011, 519, 3402-3414.	1.6	15
131	Functional Local Input to Layer 5 Pyramidal Neurons in the Rat Visual Cortex. Cerebral Cortex, 2016, 26, 991-1003.	2.9	13
132	Neural Mechanisms for the Generation of Visual Complex Cells. Neuron, 2001, 32, 378-380.	8.1	10
133	Lack of fiber type selectivity during reinnervation of neonatal rabbit soleus muscle. Developmental Biology, 1989, 131, 401-414.	2.0	9
134	Viral vector-based reversible neuronal inactivation and behavioral manipulation in the macaque monkey. Frontiers in Systems Neuroscience, 2012, 6, 48.	2.5	9
135	Competitive elimination of neuromuscular synapses. Nature, 1988, 331, 21-22.	27.8	8
136	Caged Neurotransmitters: Shedding light on neural circuits. Current Biology, 1994, 4, 1010-1012.	3.9	8
137	Inhibitory Cell Types, Circuits and Receptive Fields in Mouse Visual Cortex. Research and Perspectives in Neurosciences, 2016, , 11-18.	0.4	8
138	Francis Crick's Legacy for Neuroscience: Between the Î± and the Î©. PLoS Biology, 2004, 2, e419.	5.6	7
139	Paint It Black (or Red, or Green): Optical and Genetic Tools Illuminate Inhibitory Contributions to Cortical Circuit Function. Neuron, 2010, 67, 681-684.	8.1	7
140	More than a feeling: sensation from cortical stimulation. Nature Neuroscience, 2008, 11, 10-11.	14.8	6
141	Application of Recombinant Rabies Virus toXenopusTadpole Brain. ENeuro, 2021, 8, ENEURO.0477-20.2021.	1.9	6
142	Common features of diverse circuits. Current Opinion in Neurobiology, 2012, 22, 565-567.	4.2	5
143	Secondary auditory cortex mediates a sensorimotor mechanism for action timing. Nature Neuroscience, 2022, 25, 330-344.	14.8	5
144	Close Encounters. Neuron, 2004, 43, 156-158.	8.1	4

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145	Should I Stay or Should I Go? Presynaptic Boutons in the Adult Cortex Still Haven't Made Up Their Minds. Neuron, 2006, 49, 780-783.	8.1	4
146	Visual scenes and cortical neurons: What you see is what you get. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 3344-3345.	7.1	3
147	New technologies. Current Opinion in Neurobiology, 2006, 16, 540-542.	4.2	3
148	Suitability of hCMV for viral gene expression in the brain. Nature Methods, 2007, 4, 379-379.	19.0	3
149	Orientation Tuningâ€"A Crooked Path to the Straight and Narrow. Neuron, 2002, 36, 783-785.	8.1	0
150	Antisense inhibition of reward learning. Nature Neuroscience, 2004, 7, 1023-1024.	14.8	0
151	New Rabies Virus Variants for Monitoring and Manipulating Activity and Gene Expression in Defined Neural Circuits. Neuron, 2012, 74, 206.	8.1	0
152	A precise and minimally invasive approach to optogenetics in the awake primate. Proceedings of SPIE, 2013, , .	0.8	0
153	Optical recording of the light response of ganglion cells in the living eye. , 2013, , .		0