Lief E Fenno

List of Publications by Year
in descending order

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38 papers	13,149 citations	172457 29 h-index	315739 38 g-index
40 all docs	40 docs citations	40 times ranked	16609 citing authors

#	Article	IF	Citations
1	Neocortical excitation/inhibition balance in information processing and social dysfunction. Nature, 2011, 477, 171-178.	27.8	2,036
2	Optogenetics in Neural Systems. Neuron, 2011, 71, 9-34.	8.1	1,629
3	The Development and Application of Optogenetics. Annual Review of Neuroscience, 2011, 34, 389-412.	10.7	1,567
4	Natural Neural Projection Dynamics Underlying Social Behavior. Cell, 2014, 157, 1535-1551.	28.9	1,121
5	Amygdala circuitry mediating reversible and bidirectional control of anxiety. Nature, 2011, 471, 358-362.	27.8	1,073
6	Global and local fMRI signals driven by neurons defined optogenetically by type and wiring. Nature, 2010, 465, 788-792.	27.8	659
7	Temporally precise in vivo control of intracellular signalling. Nature, 2009, 458, 1025-1029.	27.8	653
8	Midbrain circuits for defensive behaviour. Nature, 2016, 534, 206-212.	27.8	546
9	The Microbial Opsin Family of Optogenetic Tools. Cell, 2011, 147, 1446-1457.	28.9	471
10	Targeting cells with single vectors using multiple-feature Boolean logic. Nature Methods, 2014, 11, 763-772.	19.0	427
11	Next-generation probes, particles, and proteins for neural interfacing. Science Advances, 2017, 3, e1601649.	10.3	377
12	SNCA Triplication Parkinson's Patient's iPSC-derived DA Neurons Accumulate Î±-Synuclein and Are Susceptible to Oxidative Stress. PLoS ONE, 2011, 6, e26159.	2.5	257
13	Modulation of prefrontal cortex excitation/inhibition balance rescues social behavior in CNTNAP2 -deficient mice. Science Translational Medicine, 2017, 9, .	12.4	252
14	Thirst-associated preoptic neurons encode an aversive motivational drive. Science, 2017, 357, 1149-1155.	12.6	233
15	Chronic Optogenetic Activation Augments AÎ² Pathology in a Mouse Model of Alzheimer Disease. Cell Reports, 2015, 11, 859-865.	6.4	186
16	Optogenetic neuronal stimulation promotes functional recovery after stroke. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12913-12918.	7.1	169
17	A new mode of corticothalamic transmission revealed in the Gria4â^'/â^' model of absence epilepsy. Nature Neuroscience, 2011, 14, 1167-1173.	14.8	159
18	The central amygdala controls learning in the lateral amygdala. Nature Neuroscience, 2017, 20, 1680-1685.	14.8	159

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19	Distinct Thalamic Reticular Cell Types Differentially Modulate Normal and Pathological Cortical Rhythms. Cell Reports, 2017, 19, 2130-2142.	6.4	150
20	Genetically targeted chemical assembly of functional materials in living cells, tissues, and animals. Science, 2020, 367, 1372-1376.	12.6	132
21	Sono-optogenetics facilitated by a circulation-delivered rechargeable light source for minimally invasive optogenetics. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26332-26342.	7.1	118
22	A hypothalamus-habenula circuit controls aversion. Molecular Psychiatry, 2019, 24, 1351-1368.	7.9	111
23	Crystal structure of the natural anion-conducting channelrhodopsin GtACR1. Nature, 2018, 561, 343-348.	27.8	93
24	Comprehensive Dual- and Triple-Feature Intersectional Single-Vector Delivery of Diverse Functional Payloads to Cells of Behaving Mammals. Neuron, 2020, 107, 836-853.e11.	8.1	93
25	Structural mechanisms of selectivity and gating in anion channelrhodopsins. Nature, 2018, 561, 349-354.	27.8	67
26	Distinct Signaling by Ventral Tegmental Area Glutamate, GABA, and Combinatorial Glutamate-GABA Neurons in Motivated Behavior. Cell Reports, 2020, 32, 108094.	6.4	60
27	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
28	A functional cellular framework for sex and estrous cycle-dependent gene expression and behavior. Cell, 2022, 185, 654-671.e22.	28.9	52
29	A Molecular Calcium Integrator Reveals a Striatal Cell Type Driving Aversion. Cell, 2020, 183, 2003-2019.e16.	28.9	40
30	Microbial Opsins: A Family of Single-Component Tools for Optical Control of Neural Activity. Cold Spring Harbor Protocols, 2011, 2011, top102.	0.3	38
31	Sox6 expression distinguishes dorsally and ventrally biased dopamine neurons in the substantia nigra with distinctive properties and embryonic origins. Cell Reports, 2021, 37, 109975.	6.4	33
32	Transcriptional and functional divergence in lateral hypothalamic glutamate neurons projecting to the lateral habenula and ventral tegmental area. Neuron, 2021, 109, 3823-3837.e6.	8.1	31
33	Excitation of Diverse Classes of Cholecystokinin Interneurons in the Basal Amygdala Facilitates Fear Extinction. ENeuro, 2019, 6, ENEURO.0220-19.2019.	1.9	30
34	A Guide to Creating and Testing New INTRSECT Constructs. Current Protocols in Neuroscience, 2017, 80, 4.39.1-4.39.24.	2.6	25
35	Human embryonic stem cells: emerging technologies and practical applications. Current Opinion in Genetics and Development, 2008, 18, 324-329.	3.3	21
36	Reciprocal Lateral Hypothalamic and Raphe GABAergic Projections Promote Wakefulness. Journal of Neuroscience, 2021, 41, 4840-4849.	3.6	15

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37	Mapping Anatomy to Behavior in Thy1:18 ChR2-YFP Transgenic Mice Using Optogenetics. Cold Spring Harbor Protocols, 2015, 2015, pdb.prot075598.	0.3	7
38	Lee et al. reply. Nature, 2010, 468, E4-E5.	27.8	3