Kay M Tye

List of Publications by Year
in descending order

66 papers	17,605 citations	46984 47 h-index	106281 65 g-index
76 all docs	76 docs citations	76 times ranked	16816 citing authors

#	Article	IF	Citations
1	From circuits to behaviour in the amygdala. Nature, 2015, 517, 284-292.	13.7	1,508
2	Natural Neural Projection Dynamics Underlying Social Behavior. Cell, 2014, 157, 1535-1551.	13.5	1,121
3	Amygdala circuitry mediating reversible and bidirectional control of anxiety. Nature, 2011, 471, 358-362.	13.7	1,073
4	Input-specific control of reward and aversion in the ventral tegmental area. Nature, 2012, 491, 212-217.	13.7	1,062
5	Dopamine neurons modulate neural encoding and expression of depression-related behaviour. Nature, 2013, 493, 537-541.	13.7	874
6	Excitatory transmission from the amygdala to nucleus accumbens facilitates reward seeking. Nature, 2011, 475, 377-380.	13.7	739
7	Principles for applying optogenetic tools derived from direct comparative analysis of microbial opsins. Nature Methods, 2012, 9, 159-172.	9.0	666
8	Optogenetic investigation of neural circuits underlying brain disease in animal models. Nature Reviews Neuroscience, 2012, 13, 251-266.	4.9	655
9	Recombinase-Driver Rat Lines: Tools, Techniques, and Optogenetic Application to Dopamine-Mediated Reinforcement. Neuron, 2011, 72, 721-733.	3.8	593
10	Diverging neural pathways assemble a behavioural state from separable features in anxiety. Nature, 2013, 496, 219-223.	13.7	543
11	A prefrontal cortexâ€“brainstem neuronal projection that controls response to behavioural challenge. Nature, 2012, 492, 428-432.	13.7	526
12	GABA Neurons of the VTA Drive Conditioned Place Aversion. Neuron, 2012, 73, 1173-1183.	3.8	514
13	Resolving the neural circuits of anxiety. Nature Neuroscience, 2015, 18, 1394-1404.	7.1	504
14	Noninvasive optical inhibition with a red-shifted microbial rhodopsin. Nature Neuroscience, 2014, 17, 1123-1129.	7.1	480
15	A circuit mechanism for differentiating positive and negative associations. Nature, 2015, 520, 675-678.	13.7	478
16	BLA to vHPC Inputs Modulate Anxiety-Related Behaviors. Neuron, 2013, 79, 658-664.	3.8	460
17	High-efficiency channelrhodopsins for fast neuronal stimulation at low light levels. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7595-7600.	3.3	409
18	Amygdala Inputs to the Ventral Hippocampus Bidirectionally Modulate Social Behavior. Journal of Neuroscience, 2014, 34, 586-595.	1.7	397

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19	Decoding Neural Circuits that Control Compulsive Sucrose Seeking. Cell, 2015, 160, 528-541.	13.5	310
20	Inhibitory Input from the Lateral Hypothalamus to the Ventral Tegmental Area Disinhibits Dopamine Neurons and Promotes Behavioral Activation. Neuron, 2016, 90, 1286-1298.	3.8	309
21	Divergent Routing of Positive and Negative Information from the Amygdala during Memory Retrieval. Neuron, 2016, 90, 348-361.	3.8	307
22	Dorsal Raphe Dopamine Neurons Represent the Experience of Social Isolation. Cell, 2016, 164, 617-631.	13.5	294
23	Amygdala inputs to prefrontal cortex guide behavior amid conflicting cues of reward and punishment. Nature Neuroscience, 2017, 20, 824-835.	7.1	235
24	Organization of Valence-Encoding and Projection-Defined Neurons in the Basolateral Amygdala. Cell Reports, 2018, 22, 905-918.	2.9	214
25	Corticoamygdala Transfer of Socially Derived Information Gates Observational Learning. Cell, 2018, 173, 1329-1342.e18.	13.5	210
26	Rapid strengthening of thalamo-amygdala synapses mediates cueâ€“reward learning. Nature, 2008, 453, 1253-1257.	13.7	194
27	Dopamine enhances signal-to-noise ratio in cortical-brainstem encoding of aversive stimuli. Nature, 2018, 563, 397-401.	13.7	185
28	Nontoxic, double-deletion-mutant rabies viral vectors for retrograde targeting of projection neurons. Nature Neuroscience, 2018, 21, 638-646.	7.1	171
29	Neural Circuit Motifs in Valence Processing. Neuron, 2018, 100, 436-452.	3.8	168
30	A light- and calcium-gated transcription factor for imaging and manipulating activated neurons. Nature Biotechnology, 2017, 35, 864-871.	9.4	165
31	A cortical-brainstem circuit predicts and governs compulsive alcohol drinking. Science, 2019, 366, 1008-1012.	6.0	147
32	Acute social isolation evokes midbrain craving responses similar to hunger. Nature Neuroscience, 2020, 23, 1597-1605.	7.1	133
33	Optogenetics: 10 years after ChR2 in neuronsâ€”views from the community. Nature Neuroscience, 2015, 18, 1202-1212.	7.1	122
34	Optogenetic insights on the relationship between anxiety-related behaviors and social deficits. Frontiers in Behavioral Neuroscience, 2014, 8, 241.	1.0	120
35	Amygdala Neurons Differentially Encode Motivation and Reinforcement. Journal of Neuroscience, 2007, 27, 3937-3945.	1.7	111
36	Neural mechanisms of social homeostasis. Annals of the New York Academy of Sciences, 2019, 1457, 5-25.	1.8	111

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37	Architectural Representation of Valence in the Limbic System. Neuropsychopharmacology, 2016, 41, 1697-1715.	2.8	110
38	Optogenetic dissection of neural circuits underlying emotional valence and motivated behaviors. Brain Research, 2013, 1511, 73-92.	1.1	102
39	Hippocampal-Prefrontal Theta Transmission Regulates Avoidance Behavior. Neuron, 2019, 104, 601-610.e4.	3.8	101
40	Reduced Nucleus Accumbens SK Channel Activity Enhances Alcohol Seeking during Abstinence. Neuron, 2010, 65, 682-694.	3.8	89
41	Precision Calcium Imaging of Dense Neural Populations via a Cell-Body-Targeted Calcium Indicator. Neuron, 2020, 107, 470-486.e11.	3.8	87
42	Progress in understanding mood disorders: optogenetic dissection of neural circuits. Genes, Brain and Behavior, 2014, 13, 38-51.	1.1	86
43	Endocannabinoid Signaling in the Control of Social Behavior. Trends in Neurosciences, 2017, 40, 385-396.	4.2	76
44	Amygdala Neural Encoding of the Absence of Reward during Extinction. Journal of Neuroscience, 2010, 30, 116-125.	1.7	75
45	Methylphenidate facilitates learning-induced amygdala plasticity. Nature Neuroscience, 2010, 13, 475-481.	7.1	69
46	Cortical ensembles orchestrate social competition through hypothalamic outputs. Nature, 2022, 603, 667-671.	13.7	64
47	Neuroplastic Alterations in the Limbic System Following Cocaine or Alcohol Exposure. Current Topics in Behavioral Neurosciences, 2010, 3, 3-27.	0.8	61
48	Dopamine tunes prefrontal outputs to orchestrate aversive processing. Brain Research, 2019, 1713, 16-31.	1.1	53
49	The neural circuitry of social homeostasis: Consequences of acute versus chronic social isolation. Cell, 2021, 184, 1500-1516.	13.5	48
50	PTEN knockdown alters dendritic spine/protrusion morphology, not density. Journal of Comparative Neurology, 2014, 522, 1171-1190.	0.9	47
51	Leveraging calcium imaging to illuminate circuit dysfunction in addiction. Alcohol, 2019, 74, 47-63.	0.8	43
52	Neural systems that facilitate the representation of social rank. Philosophical Transactions of the Royal Society B: Biological Sciences, 2022, 377, 20200444.	1.8	32
53	A modeling framework for adaptive lifelong learning with transfer and savings through gating in the prefrontal cortex. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29872-29882.	3.3	26
54	The neuroscience of unmet social needs. Social Neuroscience, 2021, 16, 221-231.	0.7	24

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55	Neural Circuit Reprogramming: A New Paradigm for Treating Neuropsychiatric Disease?. Neuron, 2014, 83, 1259-1261.	3.8	20
56	Context-dependent plasticity of adult-born neurons regulated by cortical feedback. Science Advances, 2020, 6, .	4.7	18
57	Deciphering Memory Function with Optogenetics. Progress in Molecular Biology and Translational Science, 2014, 122, 341-390.	0.9	17
58	In vivo Optogenetic Stimulation of the Rodent Central Nervous System. Journal of Visualized Experiments, 2015, , 51483.	0.2	17
59	Glutamate Inputs to the Nucleus Accumbens: Does Source Matter?. Neuron, 2012, 76, 671-673.	3.8	16
60	Dynamic influences on the neural encoding of social valence. Nature Reviews Neuroscience, 2022, 23, 535-550.	4.9	15
61	Valence processing in the PFC: Reconciling circuit-level and systems-level views. International Review of Neurobiology, 2021, 158, 171-212.	0.9	9
62	Estimating a Separably Markov Random Field from Binary Observations. Neural Computation, 2018, 30, 1046-1079.	1.3	5
63	A New Handle for a Hot Topic: Genetic Markers for Warm-Sensing. Cell, 2016, 167, 43-44.	13.5	1
64	Optogenetic investigation of neural circuits underlying brain disease in animal models. , 0, .		1
65	Double threat in striatal dopamine signaling. Nature Neuroscience, 2018, 21, 1296-1297.	7.1	0
66	Getting Emotional: How the Amygdala Learns the Difference Between Good and Bad. Frontiers for Young Minds, 0, 6, .	0.8	0