

Kay M Tye

List of Publications by Year in descending order

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Version: 2024-02-01

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	Neural systems that facilitate the representation of social rank. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022, 377, 20200444.	1.8	32
2	Cortical ensembles orchestrate social competition through hypothalamic outputs. <i>Nature</i> , 2022, 603, 667-671.	13.7	64
3	Dynamic influences on the neural encoding of social valence. <i>Nature Reviews Neuroscience</i> , 2022, 23, 535-550.	4.9	15
4	The neuroscience of unmet social needs. <i>Social Neuroscience</i> , 2021, 16, 221-231.	0.7	24
5	Valence processing in the PFC: Reconciling circuit-level and systems-level views. <i>International Review of Neurobiology</i> , 2021, 158, 171-212.	0.9	9
6	The neural circuitry of social homeostasis: Consequences of acute versus chronic social isolation. <i>Cell</i> , 2021, 184, 1500-1516.	13.5	48
7	Acute social isolation evokes midbrain craving responses similar to hunger. <i>Nature Neuroscience</i> , 2020, 23, 1597-1605.	7.1	133
8	Context-dependent plasticity of adult-born neurons regulated by cortical feedback. <i>Science Advances</i> , 2020, 6, .	4.7	18
9	A modeling framework for adaptive lifelong learning with transfer and savings through gating in the prefrontal cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 29872-29882.	3.3	26
10	Precision Calcium Imaging of Dense Neural Populations via a Cell-Body-Targeted Calcium Indicator. <i>Neuron</i> , 2020, 107, 470-486.e11.	3.8	87
11	Leveraging calcium imaging to illuminate circuit dysfunction in addiction. <i>Alcohol</i> , 2019, 74, 47-63.	0.8	43
12	Hippocampal-Prefrontal Theta Transmission Regulates Avoidance Behavior. <i>Neuron</i> , 2019, 104, 601-610.e4.	3.8	101
13	Neural mechanisms of social homeostasis. <i>Annals of the New York Academy of Sciences</i> , 2019, 1457, 5-25.	1.8	111
14	A cortical-brainstem circuit predicts and governs compulsive alcohol drinking. <i>Science</i> , 2019, 366, 1008-1012.	6.0	147
15	Dopamine tunes prefrontal outputs to orchestrate aversive processing. <i>Brain Research</i> , 2019, 1713, 16-31.	1.1	53
16	Nontoxic, double-deletion-mutant rabies viral vectors for retrograde targeting of projection neurons. <i>Nature Neuroscience</i> , 2018, 21, 638-646.	7.1	171
17	Estimating a Separably Markov Random Field from Binary Observations. <i>Neural Computation</i> , 2018, 30, 1046-1079.	1.3	5
18	Corticoamygdala Transfer of Socially Derived Information Gates Observational Learning. <i>Cell</i> , 2018, 173, 1329-1342.e18.	13.5	210

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19	Organization of Valence-Encoding and Projection-Defined Neurons in the Basolateral Amygdala. <i>Cell Reports</i> , 2018, 22, 905-918.	2.9	214
20	Dopamine enhances signal-to-noise ratio in cortical-brainstem encoding of aversive stimuli. <i>Nature</i> , 2018, 563, 397-401.	13.7	185
21	Double threat in striatal dopamine signaling. <i>Nature Neuroscience</i> , 2018, 21, 1296-1297.	7.1	0
22	Neural Circuit Motifs in Valence Processing. <i>Neuron</i> , 2018, 100, 436-452.	3.8	168
23	Amygdala inputs to prefrontal cortex guide behavior amid conflicting cues of reward and punishment. <i>Nature Neuroscience</i> , 2017, 20, 824-835.	7.1	235
24	Endocannabinoid Signaling in the Control of Social Behavior. <i>Trends in Neurosciences</i> , 2017, 40, 385-396.	4.2	76
25	A light- and calcium-gated transcription factor for imaging and manipulating activated neurons. <i>Nature Biotechnology</i> , 2017, 35, 864-871.	9.4	165
26	Divergent Routing of Positive and Negative Information from the Amygdala during Memory Retrieval. <i>Neuron</i> , 2016, 90, 348-361.	3.8	307
27	Inhibitory Input from the Lateral Hypothalamus to the Ventral Tegmental Area Disinhibits Dopamine Neurons and Promotes Behavioral Activation. <i>Neuron</i> , 2016, 90, 1286-1298.	3.8	309
28	A New Handle for a Hot Topic: Genetic Markers for Warm-Sensing. <i>Cell</i> , 2016, 167, 43-44.	13.5	1
29	Dorsal Raphe Dopamine Neurons Represent the Experience of Social Isolation. <i>Cell</i> , 2016, 164, 617-631.	13.5	294
30	Architectural Representation of Valence in the Limbic System. <i>Neuropsychopharmacology</i> , 2016, 41, 1697-1715.	2.8	110
31	Decoding Neural Circuits that Control Compulsive Sucrose Seeking. <i>Cell</i> , 2015, 160, 528-541.	13.5	310
32	From circuits to behaviour in the amygdala. <i>Nature</i> , 2015, 517, 284-292.	13.7	1,508
33	A circuit mechanism for differentiating positive and negative associations. <i>Nature</i> , 2015, 520, 675-678.	13.7	478
34	<i>In vivo</i> Optogenetic Stimulation of the Rodent Central Nervous System. <i>Journal of Visualized Experiments</i> , 2015, , 51483.	0.2	17
35	Resolving the neural circuits of anxiety. <i>Nature Neuroscience</i> , 2015, 18, 1394-1404.	7.1	504
36	Optogenetics: 10 years after ChR2 in neurons—views from the community. <i>Nature Neuroscience</i> , 2015, 18, 1202-1212.	7.1	122

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37	Optogenetic insights on the relationship between anxiety-related behaviors and social deficits. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 241.	1.0	120
38	PTEN knockdown alters dendritic spine/protrusion morphology, not density. <i>Journal of Comparative Neurology</i> , 2014, 522, 1171-1190.	0.9	47
39	Neural Circuit Reprogramming: A New Paradigm for Treating Neuropsychiatric Disease?. <i>Neuron</i> , 2014, 83, 1259-1261.	3.8	20
40	Amygdala Inputs to the Ventral Hippocampus Bidirectionally Modulate Social Behavior. <i>Journal of Neuroscience</i> , 2014, 34, 586-595.	1.7	397
41	Natural Neural Projection Dynamics Underlying Social Behavior. <i>Cell</i> , 2014, 157, 1535-1551.	13.5	1,121
42	Noninvasive optical inhibition with a red-shifted microbial rhodopsin. <i>Nature Neuroscience</i> , 2014, 17, 1123-1129.	7.1	480
43	Deciphering Memory Function with Optogenetics. <i>Progress in Molecular Biology and Translational Science</i> , 2014, 122, 341-390.	0.9	17
44	Progress in understanding mood disorders: optogenetic dissection of neural circuits. <i>Genes, Brain and Behavior</i> , 2014, 13, 38-51.	1.1	86
45	BLA to vHPC Inputs Modulate Anxiety-Related Behaviors. <i>Neuron</i> , 2013, 79, 658-664.	3.8	460
46	Dopamine neurons modulate neural encoding and expression of depression-related behaviour. <i>Nature</i> , 2013, 493, 537-541.	13.7	874
47	Diverging neural pathways assemble a behavioural state from separable features in anxiety. <i>Nature</i> , 2013, 496, 219-223.	13.7	543
48	Optogenetic dissection of neural circuits underlying emotional valence and motivated behaviors. <i>Brain Research</i> , 2013, 1511, 73-92.	1.1	102
49	A prefrontal cortex-brainstem neuronal projection that controls response to behavioural challenge. <i>Nature</i> , 2012, 492, 428-432.	13.7	526
50	Principles for applying optogenetic tools derived from direct comparative analysis of microbial opsins. <i>Nature Methods</i> , 2012, 9, 159-172.	9.0	666
51	Input-specific control of reward and aversion in the ventral tegmental area. <i>Nature</i> , 2012, 491, 212-217.	13.7	1,062
52	Glutamate Inputs to the Nucleus Accumbens: Does Source Matter?. <i>Neuron</i> , 2012, 76, 671-673.	3.8	16
53	GABA Neurons of the VTA Drive Conditioned Place Aversion. <i>Neuron</i> , 2012, 73, 1173-1183.	3.8	514
54	Optogenetic investigation of neural circuits underlying brain disease in animal models. <i>Nature Reviews Neuroscience</i> , 2012, 13, 251-266.	4.9	655

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55	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
56	Recombinase-Driver Rat Lines: Tools, Techniques, and Optogenetic Application to Dopamine-Mediated Reinforcement. Neuron, 2011, 72, 721-733.	3.8	593
57	Amygdala circuitry mediating reversible and bidirectional control of anxiety. Nature, 2011, 471, 358-362.	13.7	1,073
58	Excitatory transmission from the amygdala to nucleus accumbens facilitates reward seeking. Nature, 2011, 475, 377-380.	13.7	739
59	Methylphenidate facilitates learning-induced amygdala plasticity. Nature Neuroscience, 2010, 13, 475-481.	7.1	69
60	Amygdala Neural Encoding of the Absence of Reward during Extinction. Journal of Neuroscience, 2010, 30, 116-125.	1.7	75
61	Neuroplastic Alterations in the Limbic System Following Cocaine or Alcohol Exposure. Current Topics in Behavioral Neurosciences, 2010, 3, 3-27.	0.8	61
62	Reduced Nucleus Accumbens SK Channel Activity Enhances Alcohol Seeking during Abstinence. Neuron, 2010, 65, 682-694.	3.8	89
63	Rapid strengthening of thalamo-amygdala synapses mediates cueâ€“reward learning. Nature, 2008, 453, 1253-1257.	13.7	194
64	Amygdala Neurons Differentially Encode Motivation and Reinforcement. Journal of Neuroscience, 2007, 27, 3937-3945.	1.7	111
65	Optogenetic investigation of neural circuits underlying brain disease in animal models. , 0, .		1
66	Getting Emotional: How the Amygdala Learns the Difference Between Good and Bad. Frontiers for Young Minds, 0, 6, .	0.8	0