Antoine Adamantidis

List of Publications by Year
in descending order

102 papers	10,402 citations	87723 38 h-index	40881 93 g-index
116 all docs	116 docs citations	116 times ranked	10225 citing authors

#	Article	IF	Citations
1	A genetically encoded sensor for in vivo imaging of orexin neuropeptides. Nature Methods, 2022, 19, 231-241.	9.0	50
2	â€œDiversity matters seriesâ€â€"The Black In Neuro movement. European Journal of Neuroscience, 2022, 55, 343-349.	1.2	0
3	How the gut talks to the brain. Science, 2022, 376, 248-249.	6.0	8
4	The evolutionarily conserved miRNA-137 targets the neuropeptide hypocretin/orexin and modulates the wake to sleep ratio. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2112225119.	3.3	9
5	Paradoxical somatodendritic decoupling supports cortical plasticity during REM sleep. Science, 2022, 376, 724-730.	6.0	42
6	Sleep to Survive Predators. Neuroscience Bulletin, 2022, 38, 1114-1116.	1.5	0
7	Reciprocal Lateral Hypothalamic and Raphe GABAergic Projections Promote Wakefulness. Journal of Neuroscience, 2021, 41, 4840-4849.	1.7	15
8	â€œThe Trailblazers of Neuroscience.â€• European Journal of Neuroscience, 2021, 53, 2419-2420.	1.2	0
9	â€œDiversity matters seriesâ€â€"The ALBA network. European Journal of Neuroscience, 2021, 54, 4055-4060.	1.2	2
10	Sleep and Metabolism: Implication of Lateral Hypothalamic Neurons. Frontiers of Neurology and Neuroscience, 2021, 45, 75-90.	3.0	11
11	How REM sleep shapes hypothalamic computations for feeding behavior. Trends in Neurosciences, 2021, 44, 990-1003.	4.2	5
12	A role for spindles in the onset of rapid eye movement sleep. Nature Communications, 2020, 11, 5247.	5.8	45
13	Slow Waves Promote Sleep-Dependent Plasticity and Functional Recovery after Stroke. Journal of Neuroscience, 2020, 40, 8637-8651.	1.7	31
14	Circadian VIPergic Neurons of the Suprachiasmatic Nuclei Sculpt the Sleep-Wake Cycle. Neuron, 2020, 108, 486-499.e5.	3.8	55
15	The Rat Mammary Gland as a Novel Site of Expression of Melanin-Concentrating Hormone Receptor 1 mRNA and Its Protein Immunoreactivity. Frontiers in Endocrinology, 2020, 11, 463.	1.5	4
16	REM sleep stabilizes hypothalamic representation of feeding behavior. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19590-19598.	3.3	18
17	Loss of Snord116 alters cortical neuronal activity in mice: a preclinical investigation of Praderâ€"Willi syndrome. Human Molecular Genetics, 2020, 29, 2051-2064.	1.4	12
18	Ciliary melaninâ€concentrating hormone receptor 1 (MCHR1) is widely distributed in the murine CNS in a sexâ€independent manner. Journal of Neuroscience Research, 2020, 98, 2045-2071.	1.3	23

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19	Rapid fast-delta decay following prolonged wakefulness marks a phase of wake-inertia in NREM sleep. Nature Communications, 2020, 11, 3130.	5.8	59
20	Discharge and Role of GABA Pontomesencephalic Neurons in Cortical Activity and Sleep-Wake States Examined by Optogenetics and Juxtacellular Recordings in Mice. Journal of Neuroscience, 2020, 40, 5970-5989.	1.7	6
21	Role of spontaneous and sensory orexin network dynamics in rapid locomotion initiation. Progress in Neurobiology, 2020, 187, 101771.	2.8	51
22	A circuit perspective on narcolepsy. Sleep, 2020, 43, .	0.6	27
23	Diet and sleep: is hypothalamus the link?. Current Opinion in Physiology, 2020, 15, 224-229.	0.9	4
24	Die normale Schlafphysiologie. , 2020, , 5-19.		0
25	Dynamic modulation of thetaâ€“gamma coupling during rapid eye movement sleep. Sleep, 2019, 42, .	0.6	39
26	Narcolepsy â€” clinical spectrum, aetiopathophysiology, diagnosis and treatment. Nature Reviews Neurology, 2019, 15, 519-539.	4.9	364
27	Assessing Epileptogenicity Using Phase-Locked High Frequency Oscillations: A Systematic Comparison of Methods. Frontiers in Neurology, 2019, 10, 1132.	1.1	13
28	Chronic Nicotine Exposure Alters Metabotropic Glutamate Receptor 5: Longitudinal PET Study and Behavioural Assessment in Rats. Neurotoxicity Research, 2019, 36, 806-816.	1.3	8
29	Functions and Circuits of REM Sleep. Handbook of Behavioral Neuroscience, 2019, , 249-267.	0.7	2
30	Dynamic REM Sleep Modulation by Ambient Temperature and the Critical Role of the Melanin-Concentrating Hormone System. Current Biology, 2019, 29, 1976-1987.e4.	1.8	43
31	SPINDLE: End-to-end learning from EEG/EMG to extrapolate animal sleep scoring across experimental settings, labs and species. PLoS Computational Biology, 2019, 15, e1006968.	1.5	51
32	Oscillating circuitries in the sleeping brain. Nature Reviews Neuroscience, 2019, 20, 746-762.	4.9	144
33	Sleep as a model to understand neuroplasticity and recovery after stroke: Observational, perturbational and interventional approaches. Journal of Neuroscience Methods, 2019, 313, 37-43.	1.3	13
34	Optogenetic Dissection of Sleep-Wake States In Vitro and In Vivo. Handbook of Experimental Pharmacology, 2018, 253, 125-151.	0.9	2
35	Sleep-Wake Cycling and Energy Conservation: Role of Hypocretin and the Lateral Hypothalamus in Dynamic State-Dependent Resource Optimization. Frontiers in Neurology, 2018, 9, 790.	1.1	24
36	Optogenetics Dissection of Sleep Circuits and Functions. , 2018, , 535-564.		0

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37	Sleep-wake control and the thalamus. Current Opinion in Neurobiology, 2018, 52, 188-197.	2.0	104
38	Thalamic dual control of sleep and wakefulness. Nature Neuroscience, 2018, 21, 974-984.	7.1	159
39	Cell Type-Specific Targeting Strategies for Optogenetics. Neuromethods, 2018, , 25-42.	0.2	4
40	Discharge and Role of Acetylcholine Pontomesencephalic Neurons in Cortical Activity and Sleep-Wake States Examined by Optogenetics and Juxtacellular Recording in Mice. ENeuro, 2018, 5, ENEURO.0270-18.2018.	0.9	35
41	Electronic Sleep Stage Classifiers: A Survey and VLSI Design Methodology. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 177-188.	2.7	30
42	The role of sleep in recovery following ischemic stroke: A review of human and animal data. Neurobiology of Sleep and Circadian Rhythms, 2017, 2, 94-105.	1.4	114
43	REM Sleep on It!. Neuropsychopharmacology, 2017, 42, 375-375.	2.8	1
44	Melanin-concentrating hormone and sleep. Current Opinion in Neurobiology, 2017, 44, 152-158.	2.0	43
45	REM sleep and memory. Current Opinion in Neurobiology, 2017, 44, 167-177.	2.0	94
46	Sleep & metabolism: The multitasking ability of lateral hypothalamic inhibitory circuitries. Frontiers in Neuroendocrinology, 2017, 44, 27-34.	2.5	44
47	Monoaminergic control of brain states and sensory processing: Existing knowledge and recent insights obtained with optogenetics. Progress in Neurobiology, 2017, 151, 237-253.	2.8	38
48	Anaesthesia and sleep. Clinical and Translational Neuroscience, 2017, 1, 2514183X1772628.	0.4	10
49	Role of REM Sleep, Melanin Concentrating Hormone and Orexin/Hypocretin Systems in the Sleep Deprivation Pre-Ischemia. PLoS ONE, 2017, 12, e0168430.	1.1	23
50	MCH receptor deletion does not impair glucose-conditioned flavor preferences in mice. Physiology and Behavior, 2016, 163, 239-244.	1.0	14
51	Causal evidence for the role of REM sleep theta rhythm in contextual memory consolidation. Science, 2016, 352, 812-816.	6.0	490
52	Awake dynamics and brain-wide direct inputs of hypothalamic MCH and orexin networks. Nature Communications, 2016, 7, 11395.	5.8	152
53	Hypothalamic feedforward inhibition of thalamocortical network controls arousal and consciousness. Nature Neuroscience, 2016, 19, 290-298.	7.1	228
54	Sleep-Wake Cycle Dysfunction in the TgCRND8 Mouse Model of Alzheimerâ€™s Disease: From Early to Advanced Pathological Stages. PLoS ONE, 2015, 10, e0130177.	1.1	40

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55	An integrated microprobe for the brain. Nature Biotechnology, 2015, 33, 259-260.	9.4	4
56	Parvalbumin Interneurons of Hippocampus Tune Population Activity at Theta Frequency. Neuron, 2015, 86, 1277-1289.	3.8	203
57	Sleep: The Sound of a Local Alarm Clock. Current Biology, 2015, 25, R49-R51.	1.8	1
58	Optogenetics in Freely Moving Mammals: Dopamine and Reward. Cold Spring Harbor Protocols, 2015, 2015, pdb.top086330.	0.2	10
59	Deletion of Melanin Concentrating Hormone Receptor-1 disrupts overeating in the presence of food cues. Physiology and Behavior, 2015, 152, 402-407.	1.0	30
60	Optogenetic Evidence for Inhibitory Signaling from Orexin to MCH Neurons via Local Microcircuits. Journal of Neuroscience, 2015, 35, 5435-5441.	1.7	113
61	Optogenetics: 10 years after ChR2 in neuronsâ€"views from the community. Nature Neuroscience, 2015, 18, 1202-1212.	7.1	122
62	Optogenetic Dissection of Neural Circuit Function in Behaving Animals. Neuromethods, 2015, , 143-160.	0.2	0
63	Wearable low-latency sleep stage classifier. , 2014, , .		14
64	Coreleased Orexin and Glutamate Evoke Nonredundant Spike Outputs and Computations in Histamine Neurons. Cell Reports, 2014, 7, 697-704.	2.9	160
65	Optogenetics: Opsins and Optical Interfaces in Neuroscience. Cold Spring Harbor Protocols, 2014, 2014, pdb.top083329.	0.2	28
66	Establishing a Fiber-Optic-Based Optical Neural Interface. Cold Spring Harbor Protocols, 2014, 2014, pdb.prot083337-pdb.prot083337.	0.2	4
67	Melanin-concentrating hormone regulates beat frequency of ependymal cilia and ventricular volume. Nature Neuroscience, 2013, 16, 845-847.	7.1	70
68	Optogenetic identification of a rapid eye movement sleep modulatory circuit in the hypothalamus. Nature Neuroscience, 2013, 16, 1637-1643.	7.1	359
69	Control of Ventricular Ciliary Beating by the Melanin Concentrating Hormone-Expressing Neurons of the Lateral Hypothalamus: A Functional Imaging Survey. Frontiers in Endocrinology, 2013, 4, 182.	1.5	24
70	MCH Neurons: Vigilant Workers in the Night. Sleep, 2013, 36, 1783-1786.	0.6	13
71	Norepinephrine Drives Persistent Activity in Prefrontal Cortex via Synergistic Î±1 and Î±2 Adrenoceptors. PLoS ONE, 2013, 8, e66122.	1.1	75
72	Functional wiring of hypocretin and LC-NE neurons: implications for arousal. Frontiers in Behavioral Neuroscience, 2013, 7, 43.	1.0	53

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73	Optogenetic control of arousal neurons. , 2013, , 66-72.		1
74	Optogenetic Probing of Fast Glutamatergic Transmission from Hypocretin/Orexin to Histamine Neurons<i>In Situ</i>. Journal of Neuroscience, 2012, 32, 12437-12443.	1.7	131
75	Shining Light on Wakefulness and Arousal. Biological Psychiatry, 2012, 71, 1046-1052.	0.7	85
76	The role of melaninâ€concentrating hormone in conditioned reward learning. European Journal of Neuroscience, 2012, 36, 3126-3133.	1.2	31
77	Analysis of Neuronal Circuits with Optogenetics. Neuromethods, 2012, , 207-223.	0.2	1
78	Optogenetic Probing of Hypocretinsâ€™ Regulation of Wakefulness. , 2011, , 129-137.		0
79	Activation of Central Orexin/Hypocretin Neurons by Dietary Amino Acids. Neuron, 2011, 72, 616-629.	3.8	134
80	Optogenetic Interrogation of Dopaminergic Modulation of the Multiple Phases of Reward-Seeking Behavior. Journal of Neuroscience, 2011, 31, 10829-10835.	1.7	322
81	Optogenetic disruption of sleep continuity impairs memory consolidation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13305-13310.	3.3	172
82	The Hypocretins/Orexins: Master Regulators of Arousal and Hyperarousal. , 2011, , 121-128.		0
83	Tuning arousal with optogenetic modulation of locus coeruleus neurons. Nature Neuroscience, 2010, 13, 1526-1533.	7.1	800
84	Optogenetic interrogation of neural circuits: technology for probing mammalian brain structures. Nature Protocols, 2010, 5, 439-456.	5.5	895
85	Optogenetic deconstruction of sleep-wake circuitry in the brain. Frontiers in Molecular Neuroscience, 2010, 2, 31.	1.4	47
86	Major Impairments of Glutamatergic Transmission and Long-Term Synaptic Plasticity in the Hippocampus of Mice Lacking the Melanin-Concentrating Hormone Receptor-1. Journal of Neurophysiology, 2010, 104, 1417-1425.	0.9	35
87	The hypocretins as sensors for metabolism and arousal. Journal of Physiology, 2009, 587, 33-40.	1.3	92
88	A role for Melanin-Concentrating Hormone in learning and memory. Peptides, 2009, 30, 2066-2070.	1.2	51
89	Phasic Firing in Dopaminergic Neurons Is Sufficient for Behavioral Conditioning. Science, 2009, 324, 1080-1084.	6.0	1,064
90	Sleep Homeostasis Modulates Hypocretin-Mediated Sleep-to-Wake Transitions. Journal of Neuroscience, 2009, 29, 10939-10949.	1.7	232

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91	Sleep architecture of the melaninâ€concentrating hormone receptorâ€ƒ1â€knockout mice. European Journal of Neuroscience, 2008, 27, 1793-1800.	1.2	78
92	Amphetamine- and cocaine-induced conditioned place preference and concomitant psychomotor sensitization in mice with genetically inactivated melanin-concentrating hormone MCH1 receptor. European Journal of Pharmacology, 2008, 599, 72-80.	1.7	17
93	Sleep and metabolism: shared circuits, new connections. Trends in Endocrinology and Metabolism, 2008, 19, 362-370.	3.1	97
94	A Temperature-sensitive Mutation in the Arabidopsis thaliana Phosphomannomutase Gene Disrupts Protein Glycosylation and Triggers Cell Death. Journal of Biological Chemistry, 2008, 283, 5708-5718.	1.6	60
95	Circuit-breakers: optical technologies for probing neural signals and systems. Nature Reviews Neuroscience, 2007, 8, 577-581.	4.9	586
96	Neural substrates of awakening probed with optogenetic control of hypocretin neurons. Nature, 2007, 450, 420-424.	13.7	1,157
97	Alcohol Drinking in MCH Receptor-1-Deficient Mice. Alcoholism: Clinical and Experimental Research, 2007, 31, 1325-1337.	1.4	16
98	Mice lacking the melanin-concentrating hormone receptor-1 exhibit an atypical psychomotor susceptibility to cocaine and no conditioned cocaine response. Behavioural Brain Research, 2006, 173, 94-103.	1.2	28
99	Disrupting the melanin-concentrating hormone receptorâ€ƒ1 in mice leads to cognitive deficits and alterations of NMDA receptor function. European Journal of Neuroscience, 2005, 21, 2837-2844.	1.2	87
100	Transgenic engineering of male-specific muscular hypertrophy. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 6413-6418.	3.3	38
101	Promoter characterization of the mouse melanin-concentrating hormone receptor 1. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2004, 1678, 1-6.	2.4	4
102	Human immune cells express ppMCH mRNA and functional MCHR1 receptor. FEBS Letters, 2002, 527, 205-210.	1.3	41