Alexei L Vyssotski

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6712304/publications.pdf

Version: 2024-02-01

76 papers	5,981 citations	76326 40 h-index	79698 73 g-index
82 all docs	82 docs citations	82 times ranked	7617 citing authors

#	Article	IF	Citations
1	Homeostatic regulation of NREM sleep, but not REM sleep, in Australian magpies. Sleep, 2022, 45, .	1.1	8
2	Sleep architecture and regulation of male dusky antechinus, an Australian marsupial. Sleep, 2022, 45, .	1.1	4
3	Eavesdropping on the brain at sea: development of a surface-mounted system to detect weak electrophysiological signals from wild animals. Animal Biotelemetry, 2022, 10, .	1.9	5
4	A specific circuit in the midbrain detects stress and induces restorative sleep. Science, 2022, 377, 63-72.	12.6	36
5	Dysfunction of ventral tegmental area GABA neurons causes mania-like behavior. Molecular Psychiatry, 2021, 26, 5213-5228.	7.9	31
6	Seasonal variation in sleep homeostasis in migratory geese: a rebound of NREM sleep following sleep deprivation in summer but not in winter. Sleep, 2021, 44, .	1.1	10
7	Hidden Markov models identify major movement modes in accelerometer and magnetometer data from four albatross species. Movement Ecology, 2021, 9, 7.	2.8	17
8	Characterization of exploratory patterns and hippocampalâ€“prefrontal network oscillations during the emergence of free exploration. Science Bulletin, 2021, 66, 2238-2250.	9.0	7
9	Nitric Oxide Synthase Neurons in the Preoptic Hypothalamus Are NREM and REM Sleep-Active and Lower Body Temperature. Frontiers in Neuroscience, 2021, 15, 709825.	2.8	5
10	Urban noise restricts, fragments, and lightens sleep in Australian magpies. Environmental Pollution, 2020, 267, 115484.	7.5	27
11	White and Amber Light at Night Disrupt Sleep Physiology in Birds. Current Biology, 2020, 30, 3657-3663.e5.	3.9	51
12	Hippocampal gamma oscillations by sucrose instrumental memory retrieval in rats across sleep/wake cycle. Neuroscience Letters, 2020, 736, 135255.	2.1	2
13	Sleep Time in the European Starling Is Strongly Affected by Night Length and Moon Phase. Current Biology, 2020, 30, 1664-1671.e2.	3.9	21
14	The European starling (Sturnus vulgaris) shows signs of NREM sleep homeostasis but has very little REM sleep and no REM sleep homeostasis. Sleep, 2020, 43, .	1.1	13
15	Streetlights Disrupt Night-Time Sleep in Urban Black Swans. Frontiers in Ecology and Evolution, 2020, 8, .	2.2	20
16	Is xenon a suitable euthanasia agent for mice?. Veterinary Anaesthesia and Analgesia, 2019, 46, 652-657.	0.6	3
17	Galanin Neurons Unite Sleep Homeostasis and Î±2-Adrenergic Sedation. Current Biology, 2019, 29, 3315-3322.e3.	3.9	66
18	Eye state asymmetry during aquatic unihemispheric slow wave sleep in northern fur seals (Callorhinus ursinus). PLoS ONE, 2019, 14, e0217025.	2.5	34

#	Article	IF	Citations
19	Nitrogen gas produces less behavioural and neurophysiological excitation than carbon dioxide in mice undergoing euthanasia. PLoS ONE, 2019, 14, e0210818.	2.5	8
20	Validation of â€˜Somnivoreâ€™, a Machine Learning Algorithm for Automated Scoring and Analysis of Polysomnography Data. Frontiers in Neuroscience, 2019, 13, 207.	2.8	38
21	Genetic lesioning of histamine neurons increases sleepâ€“wake fragmentation and reveals their contribution to modafinil-induced wakefulness. Sleep, 2019, 42, .	1.1	17
22	GABA and glutamate neurons in the VTA regulate sleep and wakefulness. Nature Neuroscience, 2019, 22, 106-119.	14.8	188
23	Excitatory Pathways from the Lateral Habenula Enable Propofol-Induced Sedation. Current Biology, 2018, 28, 580-587.e5.	3.9	65
24	Basal forebrain contributes to default mode network regulation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1352-1357.	7.1	59
25	The low-down on sleeping down low: pigeons shift to lighter forms of sleep when sleeping near the ground. Journal of Experimental Biology, 2018, 221, .	1.7	24
26	Epileptiform activity during inert gas euthanasia of mice. PLoS ONE, 2018, 13, e0195872.	2.5	7
27	A Neuronal Hub Binding Sleep Initiation and Body Cooling in Response to a Warm External Stimulus. Current Biology, 2018, 28, 2263-2273.e4.	3.9	99
28	Fur Seals Suppress REM Sleep for Very Long Periods without Subsequent Rebound. Current Biology, 2018, 28, 2000-2005.e2.	3.9	90
29	Prefrontal cortical control of a brainstem social behavior circuit. Nature Neuroscience, 2017, 20, 260-270.	14.8	162
30	Ultradian Rhythmicity in Sleep-Wakefulness Is Related to Color in Nestling Barn Owls. Journal of Biological Rhythms, 2017, 32, 456-468.	2.6	7
31	Heart rate variability reveals that a decrease in parasympathetic (â€˜rest-and-digestâ€™) activity dominates autonomic stress responses in a free-living seabird. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2017, 212, 117-126.	1.8	17
32	Nocturnal, diurnal and bimodal patterns of locomotion, sibling interactions and sleep in nestling Barn Owls. Journal of Ornithology, 2017, 158, 1001-1012.	1.1	4
33	Sleep-Related Electrophysiology and Behavior of Tinamous (<b><i>Eudromia) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 89, 249-261.	1.7	18
34	Low atmospheric pressure system for stunning broiler chickens. EFSA Journal, 2017, 15, e05056.	1.8	7
35	A Neural Code That Is Isometric to Vocal Output and Correlates with Its Sensory Consequences. PLoS Biology, 2016, 14, e2000317.	5.6	25
36	Gamma band directional interactions between basal forebrain and visual cortex during wake and sleep states. Journal of Physiology (Paris), 2016, 110, 19-28.	2.1	18

#	Article	IF	Citations
37	Evidence that birds sleep in mid-flight. Nature Communications, 2016, 7, 12468.	12.8	235
38	Bottom-Up versus Top-Down Induction of Sleep by Zolpidem Acting on Histaminergic and Neocortex Neurons. Journal of Neuroscience, 2016, 36, 11171-11184.	3.6	34
39	Neuronal ensembles sufficient for recovery sleep and the sedative actions of Î±2 adrenergic agonists. Nature Neuroscience, 2015, 18, 553-561.	14.8	210
40	Is â€œcooling then freezingâ€•a humane way to kill amphibians and reptiles?. Biology Open, 2015, 4, 760-763.	1.2	57
41	Wakefulness Is Governed by GABA and Histamine Cotransmission. Neuron, 2015, 87, 164-178.	8.1	136
42	How Cheap Is Soaring Flight in Raptors? A Preliminary Investigation in Freely-Flying Vultures. PLoS ONE, 2014, 9, e84887.	2.5	120
43	Mapping Pathological Phenotypes in a Mouse Model of CDKL5 Disorder. PLoS ONE, 2014, 9, e91613.	2.5	145
44	Altered Activity in the Central Medial Thalamus Precedes Changes in the Neocortex during Transitions into Both Sleep and Propofol Anesthesia. Journal of Neuroscience, 2014, 34, 13326-13335.	3.6	115
45	Reconstruction of vocal interactions in a group of small songbirds. Nature Methods, 2014, 11, 1135-1137.	19.0	73
46	Staying awake â€“ a genetic region that hinders Î±₂ adrenergic receptor agonistâ€induced sleep. European Journal of Neuroscience, 2014, 40, 2311-2319.	2.6	28
47	Sleep and vigilance linked to melanism in wild barn owls. Journal of Evolutionary Biology, 2014, 27, 2057-2068.	1.7	13
48	Circadian Factor BMAL1 in Histaminergic Neurons Regulates Sleep Architecture. Current Biology, 2014, 24, 2838-2844.	3.9	74
49	Deficient neuron-microglia signaling results in impaired functional brain connectivity and social behavior. Nature Neuroscience, 2014, 17, 400-406.	14.8	958
50	Ecology and Neurophysiology of Sleep in Two Wild Sloth Species. Sleep, 2014, 37, 753-761.	1.1	51
51	Linking melanism to brain development: expression of a melanism-related gene in barn owl feather follicles covaries with sleep ontogeny. Frontiers in Zoology, 2013, 10, 42.	2.0	61
52	Evaluation of two minimally invasive techniques for electroencephalogram recording in wild or freely behaving animals. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2013, 199, 183-189.	1.6	19
53	At the interface of the auditory and vocal motor systems: NIf and its role in vocal processing, production and learning. Journal of Physiology (Paris), 2013, 107, 178-192.	2.1	43
54	Global slowing of network oscillations in mouse neocortex by diazepam. Neuropharmacology, 2013, 65, 123-133.	4.1	28

#	Article	IF	Citations
55	GABAergic Inhibition of Histaminergic Neurons Regulates Active Waking But Not the Sleepâ€“Wake Switch or Propofol-Induced Loss of Consciousness. Journal of Neuroscience, 2012, 32, 13062-13075.	3.6	89
56	Adaptive Sleep Loss in Polygynous Pectoral Sandpipers. Science, 2012, 337, 1654-1658.	12.6	208
57	Distinct features of fast oscillations in phasic and tonic rapid eye movement sleep. Journal of Sleep Research, 2012, 21, 630-633.	3.2	41
58	Flying at No Mechanical Energy Cost: Disclosing the Secret of Wandering Albatrosses. PLoS ONE, 2012, 7, e41449.	2.5	82
59	Ostriches Sleep like Platypuses. PLoS ONE, 2011, 6, e23203.	2.5	78
60	Selective Coupling between Theta Phase and Neocortical Fast Gamma Oscillations during REM-Sleep in Mice. PLoS ONE, 2011, 6, e28489.	2.5	105
61	Lab Mice in the Field: Unorthodox Daily Activity and Effects of a Dysfunctional Circadian Clock Allele. Journal of Biological Rhythms, 2011, 26, 118-129.	2.6	124
62	Local sleep homeostasis in the avian brain: convergence of sleep function in mammals and birds?. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 2419-2428.	2.6	100
63	Large-scale navigational map in a mammal. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E718-24.	7.1	175
64	EEG gamma frequency and sleepâ€“wake scoring in mice: Comparing two types of supervised classifiers. Brain Research, 2010, 1322, 59-71.	2.2	69
65	Early age-related changes in adult hippocampal neurogenesis in C57 mice. Neurobiology of Aging, 2010, 31, 151-161.	3.1	322
66	An unexpected role for TASK-3 potassium channels in network oscillations with implications for sleep mechanisms and anesthetic action. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17546-17551.	7.1	80
67	EEG Responses to Visual Landmarks in Flying Pigeons. Current Biology, 2009, 19, 1159-1166.	3.9	127
68	Sleeping outside the box: electroencephalographic measures of sleep in sloths inhabiting a rainforest. Biology Letters, 2008, 4, 402-405.	2.3	113
69	Miniature Neurologgers for Flying Pigeons: Multichannel EEG and Action and Field Potentials in Combination With GPS Recording. Journal of Neurophysiology, 2006, 95, 1263-1273.	1.8	93
70	A comparison of wild-caught wood mice and bank voles in the Intellicage: assessing exploration, daily activity patterns and place learning paradigms. Behavioural Brain Research, 2005, 157, 211-217.	2.2	143
71	Pigeon Homing along Highways and Exits. Current Biology, 2004, 14, 1239-1249.	3.9	128
72	Role of a neuronal small non-messenger RNA: behavioural alterations in BC1 RNA-deleted mice. Behavioural Brain Research, 2004, 154, 273-289.	2.2	136

#	Article	IF	Citations
73	Long-term monitoring of hippocampus-dependent behavior in naturalistic settings: Mutant mice lacking neurotrophin receptor TrkB in the forebrain show spatial learning but impaired behavioral flexibility. Hippocampus, 2002, 12, 27-38.	1.9	64
74	Early behavioural changes in mice infected with BSE and scrapie: automated home cage monitoring reveals prion strain differences. European Journal of Neuroscience, 2002, 16, 735-742.	2.6	67
75	Long-term monitoring of hippocampus-dependent behavior in naturalistic settings: Mutant mice lacking neurotrophin receptor TrkB in the forebrain show spatial learning but impaired behavioral flexibility. Hippocampus, 2002, 12, 27.	1.9	3
76	Empirical Evidence for Energy Efficiency Using Intermittent Gliding Flight in Northern Bald Ibises. Frontiers in Ecology and Evolution, 0, 10, .	2.2	1