

Alexei L Vyssotski

List of Publications by Year in descending order

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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	Deficient neuron-microglia signaling results in impaired functional brain connectivity and social behavior. <i>Nature Neuroscience</i> , 2014, 17, 400-406.	14.8	958
2	Early age-related changes in adult hippocampal neurogenesis in C57 mice. <i>Neurobiology of Aging</i> , 2010, 31, 151-161.	3.1	322
3	Evidence that birds sleep in mid-flight. <i>Nature Communications</i> , 2016, 7, 12468.	12.8	235
4	Neuronal ensembles sufficient for recovery sleep and the sedative actions of $\hat{1}\pm 2$ adrenergic agonists. <i>Nature Neuroscience</i> , 2015, 18, 553-561.	14.8	210
5	Adaptive Sleep Loss in Polygynous Pectoral Sandpipers. <i>Science</i> , 2012, 337, 1654-1658.	12.6	208
6	GABA and glutamate neurons in the VTA regulate sleep and wakefulness. <i>Nature Neuroscience</i> , 2019, 22, 106-119.	14.8	188
7	Large-scale navigational map in a mammal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E718-24.	7.1	175
8	Prefrontal cortical control of a brainstem social behavior circuit. <i>Nature Neuroscience</i> , 2017, 20, 260-270.	14.8	162
9	Mapping Pathological Phenotypes in a Mouse Model of CDKL5 Disorder. <i>PLoS ONE</i> , 2014, 9, e91613.	2.5	145
10	A comparison of wild-caught wood mice and bank voles in the Intellicage: assessing exploration, daily activity patterns and place learning paradigms. <i>Behavioural Brain Research</i> , 2005, 157, 211-217.	2.2	143
11	Role of a neuronal small non-messenger RNA: behavioural alterations in BC1 RNA-deleted mice. <i>Behavioural Brain Research</i> , 2004, 154, 273-289.	2.2	136
12	Wakefulness Is Governed by GABA and Histamine Cotransmission. <i>Neuron</i> , 2015, 87, 164-178.	8.1	136
13	Pigeon Homing along Highways and Exits. <i>Current Biology</i> , 2004, 14, 1239-1249.	3.9	128
14	EEG Responses to Visual Landmarks in Flying Pigeons. <i>Current Biology</i> , 2009, 19, 1159-1166.	3.9	127
15	Lab Mice in the Field: Unorthodox Daily Activity and Effects of a Dysfunctional Circadian Clock Allele. <i>Journal of Biological Rhythms</i> , 2011, 26, 118-129.	2.6	124
16	How Cheap Is Soaring Flight in Raptors? A Preliminary Investigation in Freely-Flying Vultures. <i>PLoS ONE</i> , 2014, 9, e84887.	2.5	120
17	Altered Activity in the Central Medial Thalamus Precedes Changes in the Neocortex during Transitions into Both Sleep and Propofol Anesthesia. <i>Journal of Neuroscience</i> , 2014, 34, 13326-13335.	3.6	115
18	Sleeping outside the box: electroencephalographic measures of sleep in sloths inhabiting a rainforest. <i>Biology Letters</i> , 2008, 4, 402-405.	2.3	113

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19	Selective Coupling between Theta Phase and Neocortical Fast Gamma Oscillations during REM-Sleep in Mice. <i>PLoS ONE</i> , 2011, 6, e28489.	2.5	105
20	Local sleep homeostasis in the avian brain: convergence of sleep function in mammals and birds?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 2419-2428.	2.6	100
21	A Neuronal Hub Binding Sleep Initiation and Body Cooling in Response to a Warm External Stimulus. <i>Current Biology</i> , 2018, 28, 2263-2273.e4.	3.9	99
22	Miniature Neurologgers for Flying Pigeons: Multichannel EEG and Action and Field Potentials in Combination With GPS Recording. <i>Journal of Neurophysiology</i> , 2006, 95, 1263-1273.	1.8	93
23	Fur Seals Suppress REM Sleep for Very Long Periods without Subsequent Rebound. <i>Current Biology</i> , 2018, 28, 2000-2005.e2.	3.9	90
24	GABAergic Inhibition of Histaminergic Neurons Regulates Active Waking But Not the Sleep-Wake Switch or Propofol-Induced Loss of Consciousness. <i>Journal of Neuroscience</i> , 2012, 32, 13062-13075.	3.6	89
25	Flying at No Mechanical Energy Cost: Disclosing the Secret of Wandering Albatrosses. <i>PLoS ONE</i> , 2012, 7, e41449.	2.5	82
26	An unexpected role for TASK-3 potassium channels in network oscillations with implications for sleep mechanisms and anesthetic action. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 17546-17551.	7.1	80
27	Ostriches Sleep like Platypuses. <i>PLoS ONE</i> , 2011, 6, e23203.	2.5	78
28	Circadian Factor BMAL1 in Histaminergic Neurons Regulates Sleep Architecture. <i>Current Biology</i> , 2014, 24, 2838-2844.	3.9	74
29	Reconstruction of vocal interactions in a group of small songbirds. <i>Nature Methods</i> , 2014, 11, 1135-1137.	19.0	73
30	EEG gamma frequency and sleep-wake scoring in mice: Comparing two types of supervised classifiers. <i>Brain Research</i> , 2010, 1322, 59-71.	2.2	69
31	Early behavioural changes in mice infected with BSE and scrapie: automated home cage monitoring reveals prion strain differences. <i>European Journal of Neuroscience</i> , 2002, 16, 735-742.	2.6	67
32	Galanin Neurons Unite Sleep Homeostasis and \pm 2-Adrenergic Sedation. <i>Current Biology</i> , 2019, 29, 3315-3322.e3.	3.9	66
33	Excitatory Pathways from the Lateral Habenula Enable Propofol-Induced Sedation. <i>Current Biology</i> , 2018, 28, 580-587.e5.	3.9	65
34	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. <i>Hippocampus</i> , 2002, 12, 27-38.	1.9	64
35	Linking melanism to brain development: expression of a melanism-related gene in barn owl feather follicles covaries with sleep ontogeny. <i>Frontiers in Zoology</i> , 2013, 10, 42.	2.0	61
36	Basal forebrain contributes to default mode network regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1352-1357.	7.1	59

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37	Is "cooling then freezing" a humane way to kill amphibians and reptiles?. <i>Biology Open</i> , 2015, 4, 760-763.	1.2	57
38	Ecology and Neurophysiology of Sleep in Two Wild Sloth Species. <i>Sleep</i> , 2014, 37, 753-761.	1.1	51
39	White and Amber Light at Night Disrupt Sleep Physiology in Birds. <i>Current Biology</i> , 2020, 30, 3657-3663.e5.	3.9	51
40	At the interface of the auditory and vocal motor systems: Nlf and its role in vocal processing, production and learning. <i>Journal of Physiology (Paris)</i> , 2013, 107, 178-192.	2.1	43
41	Distinct features of fast oscillations in phasic and tonic rapid eye movement sleep. <i>Journal of Sleep Research</i> , 2012, 21, 630-633.	3.2	41
42	Validation of "Somnivore", a Machine Learning Algorithm for Automated Scoring and Analysis of Polysomnography Data. <i>Frontiers in Neuroscience</i> , 2019, 13, 207.	2.8	38
43	A specific circuit in the midbrain detects stress and induces restorative sleep. <i>Science</i> , 2022, 377, 63-72.	12.6	36
44	Bottom-Up versus Top-Down Induction of Sleep by Zolpidem Acting on Histaminergic and Neocortex Neurons. <i>Journal of Neuroscience</i> , 2016, 36, 11171-11184.	3.6	34
45	Eye state asymmetry during aquatic unihemispheric slow wave sleep in northern fur seals (<i>Callorhinus ursinus</i>). <i>PLoS ONE</i> , 2019, 14, e0217025.	2.5	34
46	Dysfunction of ventral tegmental area GABA neurons causes mania-like behavior. <i>Molecular Psychiatry</i> , 2021, 26, 5213-5228.	7.9	31
47	Global slowing of network oscillations in mouse neocortex by diazepam. <i>Neuropharmacology</i> , 2013, 65, 123-133.	4.1	28
48	Staying awake " a genetic region that hinders α_2 adrenergic receptor agonist-induced sleep. <i>European Journal of Neuroscience</i> , 2014, 40, 2311-2319.	2.6	28
49	Urban noise restricts, fragments, and lightens sleep in Australian magpies. <i>Environmental Pollution</i> , 2020, 267, 115484.	7.5	27
50	A Neural Code That Is Isometric to Vocal Output and Correlates with Its Sensory Consequences. <i>PLoS Biology</i> , 2016, 14, e2000317.	5.6	25
51	The low-down on sleeping down low: pigeons shift to lighter forms of sleep when sleeping near the ground. <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	24
52	Sleep Time in the European Starling Is Strongly Affected by Night Length and Moon Phase. <i>Current Biology</i> , 2020, 30, 1664-1671.e2.	3.9	21
53	Streetlights Disrupt Night-Time Sleep in Urban Black Swans. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	2.2	20
54	Evaluation of two minimally invasive techniques for electroencephalogram recording in wild or freely behaving animals. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2013, 199, 183-189.	1.6	19

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55	Gamma band directional interactions between basal forebrain and visual cortex during wake and sleep states. <i>Journal of Physiology (Paris)</i> , 2016, 110, 19-28.	2.1	18
56	Sleep-Related Electrophysiology and Behavior of Tinamous (–––Eudromia) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (el</i> 89, 249-261.	1.7	18
57	Heart rate variability reveals that a decrease in parasympathetic (–rest-and-digest–TM) activity dominates autonomic stress responses in a free-living seabird. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2017, 212, 117-126.	1.8	17
58	Genetic lesioning of histamine neurons increases sleep–wake fragmentation and reveals their contribution to modafinil-induced wakefulness. <i>Sleep</i> , 2019, 42, .	1.1	17
59	Hidden Markov models identify major movement modes in accelerometer and magnetometer data from four albatross species. <i>Movement Ecology</i> , 2021, 9, 7.	2.8	17
60	Sleep and vigilance linked to melanism in wild barn owls. <i>Journal of Evolutionary Biology</i> , 2014, 27, 2057-2068.	1.7	13
61	The European starling (<i>Sturnus vulgaris</i>) shows signs of NREM sleep homeostasis but has very little REM sleep and no REM sleep homeostasis. <i>Sleep</i> , 2020, 43, .	1.1	13
62	Seasonal variation in sleep homeostasis in migratory geese: a rebound of NREM sleep following sleep deprivation in summer but not in winter. <i>Sleep</i> , 2021, 44, .	1.1	10
63	Nitrogen gas produces less behavioural and neurophysiological excitation than carbon dioxide in mice undergoing euthanasia. <i>PLoS ONE</i> , 2019, 14, e0210818.	2.5	8
64	Homeostatic regulation of NREM sleep, but not REM sleep, in Australian magpies. <i>Sleep</i> , 2022, 45, .	1.1	8
65	Ultradian Rhythmicity in Sleep-Wakefulness Is Related to Color in Nestling Barn Owls. <i>Journal of Biological Rhythms</i> , 2017, 32, 456-468.	2.6	7
66	Low atmospheric pressure system for stunning broiler chickens. <i>EFSA Journal</i> , 2017, 15, e05056.	1.8	7
67	Epileptiform activity during inert gas euthanasia of mice. <i>PLoS ONE</i> , 2018, 13, e0195872.	2.5	7
68	Characterization of exploratory patterns and hippocampal–prefrontal network oscillations during the emergence of free exploration. <i>Science Bulletin</i> , 2021, 66, 2238-2250.	9.0	7
69	Nitric Oxide Synthase Neurons in the Preoptic Hypothalamus Are NREM and REM Sleep-Active and Lower Body Temperature. <i>Frontiers in Neuroscience</i> , 2021, 15, 709825.	2.8	5
70	Eavesdropping on the brain at sea: development of a surface-mounted system to detect weak electrophysiological signals from wild animals. <i>Animal Biotelemetry</i> , 2022, 10, .	1.9	5
71	Nocturnal, diurnal and bimodal patterns of locomotion, sibling interactions and sleep in nestling Barn Owls. <i>Journal of Ornithology</i> , 2017, 158, 1001-1012.	1.1	4
72	Sleep architecture and regulation of male dusky antechinus, an Australian marsupial. <i>Sleep</i> , 2022, 45, .	1.1	4

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73	Is xenon a suitable euthanasia agent for mice?. <i>Veterinary Anaesthesia and Analgesia</i> , 2019, 46, 652-657.	0.6	3
74	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. <i>Hippocampus</i> , 2002, 12, 27.	1.9	3
75	Hippocampal gamma oscillations by sucrose instrumental memory retrieval in rats across sleep/wake cycle. <i>Neuroscience Letters</i> , 2020, 736, 135255.	2.1	2
76	Empirical Evidence for Energy Efficiency Using Intermittent Gliding Flight in Northern Bald Ibises. <i>Frontiers in Ecology and Evolution</i> , 0, 10, .	2.2	1