

# Vladyslav V Vyazovskiy

## List of Publications by Year in descending order

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Version: 2024-02-01

92  
papers

7,927  
citations

76294

40  
h-index

54882

84  
g-index

106  
all docs

106  
docs citations

106  
times ranked

6252  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rodent models in translational circadian photobiology. <i>Progress in Brain Research</i> , 2022, , 97-116.	0.9	3
2	Psilocin acutely alters sleep-wake architecture and cortical brain activity in laboratory mice. <i>Translational Psychiatry</i> , 2022, 12, 77.	2.4	11
3	Human lesions and animal studies link the claustrum to perception, salience, sleep and pain. <i>Brain</i> , 2022, 145, 1610-1623.	3.7	15
4	Re-examining extreme sleep duration in bats: implications for sleep phylogeny, ecology, and function. <i>Sleep</i> , 2022, 45, .	0.6	5
5	Tinnitus: at a crossroad between phantom perception and sleep. <i>Brain Communications</i> , 2022, 4, .	1.5	5
6	Neuronal spiking-based closed-loop stimulation during cortical ON and OFF states in freely moving mice. <i>Journal of Sleep Research</i> , 2022, 31, .	1.7	6
7	Modulation of recognition memory performance by light and its relationship with cortical EEG theta and gamma activities. <i>Biochemical Pharmacology</i> , 2021, 191, 114404.	2.0	11
8	The relationship between fasting-induced torpor, sleep, and wakefulness in laboratory mice. <i>Sleep</i> , 2021, 44, .	0.6	10
9	Waking experience modulates sleep need in mice. <i>BMC Biology</i> , 2021, 19, 65.	1.7	21
10	Too sleepy for school: is sleep in teenagers homeostatically regulated under chronic sleep restriction?. <i>Sleep</i> , 2021, 44, .	0.6	0
11	A role for the cortex in sleep-wake regulation. <i>Nature Neuroscience</i> , 2021, 24, 1210-1215.	7.1	73
12	The continued need for animals to advance brain research. <i>Neuron</i> , 2021, 109, 2374-2379.	3.8	36
13	Diazepam effects on local cortical neural activity during sleep in mice. <i>Biochemical Pharmacology</i> , 2021, 191, 114515.	2.0	18
14	Dim light in the evening causes coordinated realignment of circadian rhythms, sleep, and short-term memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	20
15	Deletion of AMPA receptor GluA1 subunit gene ( <i>Gria1</i> ) causes circadian rhythm disruption and aberrant responses to environmental cues. <i>Translational Psychiatry</i> , 2021, 11, 588.	2.4	13
16	The hypothalamic link between arousal and sleep homeostasis in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	19
17	Continuous and non-invasive thermography of mouse skin accurately describes core body temperature patterns, but not absolute core temperature. <i>Scientific Reports</i> , 2020, 10, 20680.	1.6	16
18	Forward genetics identifies a novel sleep mutant with sleep state inertia and REM sleep deficits. <i>Science Advances</i> , 2020, 6, eabb3567.	4.7	15

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19	Eat, sleep, repeat: the role of the circadian system in balancing sleep-wake control with metabolic need. <i>Current Opinion in Physiology</i> , 2020, 15, 183-191.	0.9	25
20	Sleep and ageing: from human studies to rodent models. <i>Current Opinion in Physiology</i> , 2020, 15, 210-216.	0.9	13
21	Unresponsive or just asleep? Do local slow waves in the perilesional cortex have a function?. <i>Brain</i> , 2020, 143, 3513-3515.	3.7	1
22	Global sleep homeostasis reflects temporally and spatially integrated local cortical neuronal activity. <i>ELife</i> , 2020, 9, .	2.8	31
23	Comment on 'Lack of evidence for associative learning in pea plants'. <i>ELife</i> , 2020, 9, .	2.8	10
24	Environment shapes sleep patterns in a wild nocturnal primate. <i>Scientific Reports</i> , 2019, 9, 9939.	1.6	65
25	Sleep homeostasis during daytime food entrainment in mice. <i>Sleep</i> , 2019, 42, .	0.6	19
26	Cortical region-specific sleep homeostasis in mice: effects of time of day and waking experience. <i>Sleep</i> , 2018, 41, .	0.6	39
27	Effects of Aging on Cortical Neural Dynamics and Local Sleep Homeostasis in Mice. <i>Journal of Neuroscience</i> , 2018, 38, 3911-3928.	1.7	63
28	Sleep- and Wake-Like States in Small Networks In Vivo and In Vitro. <i>Handbook of Experimental Pharmacology</i> , 2018, 253, 97-121.	0.9	1
29	Effects of circadian misalignment on sleep in mice. <i>Scientific Reports</i> , 2018, 8, 15343.	1.6	15
30	Light and Cognition: Roles for Circadian Rhythms, Sleep, and Arousal. <i>Frontiers in Neurology</i> , 2018, 9, 56.	1.1	189
31	Absent sleep EEG spindle activity in GluA1 (Gria1) knockout mice: relevance to neuropsychiatric disorders. <i>Translational Psychiatry</i> , 2018, 8, 154.	2.4	29
32	Constant Light Desynchronizes Olfactory versus Object and Visuospatial Recognition Memory Performance. <i>Journal of Neuroscience</i> , 2017, 37, 3555-3567.	1.7	13
33	Sleep homeostasis, habits and habituation. <i>Current Opinion in Neurobiology</i> , 2017, 44, 202-211.	2.0	27
34	Differences in electroencephalographic non-rapid-eye movement sleep slow-wave characteristics between young and old mice. <i>Scientific Reports</i> , 2017, 7, 43656.	1.6	55
35	The Interplay between Long- and Short-Range Temporal Correlations Shapes Cortex Dynamics across Vigilance States. <i>Journal of Neuroscience</i> , 2017, 37, 10114-10124.	1.7	39
36	Melanopsin Regulates Both Sleep-Promoting and Arousal-Promoting Responses to Light. <i>PLoS Biology</i> , 2016, 14, e1002482.	2.6	129

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37	Learning by Association in Plants. <i>Scientific Reports</i> , 2016, 6, 38427.	1.6	137
38	Why Does Sleep Slow-Wave Activity Increase After Extended Wake? Assessing the Effects of Increased Cortical Firing During Wake and Sleep. <i>Journal of Neuroscience</i> , 2016, 36, 12436-12447.	1.7	60
39	Stereotypic wheel running decreases cortical activity in mice. <i>Nature Communications</i> , 2016, 7, 13138.	5.8	60
40	Responses in Rat Core Auditory Cortex are Preserved during Sleep Spindle Oscillations. <i>Sleep</i> , 2016, 39, 1069-1082.	0.6	56
41	Sleep and Serotonin Modulate Paracapsular Nitric Oxide Synthase Expressing Neurons of the Amygdala. <i>ENeuro</i> , 2016, 3, ENEURO.0177-16.2016.	0.9	12
42	Banking Sleep and Biological Sleep Need. <i>Sleep</i> , 2015, 38, 1843-1845.	0.6	14
43	Sleep, recovery, and metaregulation: explaining the benefits of sleep. <i>Nature and Science of Sleep</i> , 2015, 7, 171.	1.4	73
44	Auditory Responses and Stimulus-Specific Adaptation in Rat Auditory Cortex are Preserved Across NREM and REM Sleep. <i>Cerebral Cortex</i> , 2015, 25, 1362-1378.	1.6	102
45	Lempel-Ziv complexity of cortical activity during sleep and waking in rats. <i>Journal of Neurophysiology</i> , 2015, 113, 2742-2752.	0.9	94
46	Mapping the birth of the sleep connectome. <i>Science</i> , 2015, 350, 909-910.	6.0	2
47	Long-term history and immediate preceding state affect EEG slow wave characteristics at NREM sleep onset in C57BL/6 mice. <i>Archives Italiennes De Biologie</i> , 2015, 152, 156-68.	0.1	11
48	NREM and REM Sleep. <i>Neuroscientist</i> , 2014, 20, 203-219.	2.6	125
49	Sleep: A Biological Stimulus from Our Nearest Celestial Neighbor?. <i>Current Biology</i> , 2014, 24, R557-R560.	1.8	8
50	Sleep and Synaptic Homeostasis. <i>Current Topics in Behavioral Neurosciences</i> , 2014, 25, 91-121.	0.8	18
51	The Dynamics of Cortical Neuronal Activity in the First Minutes after Spontaneous Awakening in Rats and Mice. <i>Sleep</i> , 2014, 37, 1337-1347.	0.6	44
52	Local Sleep Taking Care of High-Maintenance Cortical Circuits under Sleep Restriction. <i>Sleep</i> , 2014, 37, 1727-1730.	0.6	11
53	Prolonged wakefulness alters neuronal responsiveness to local electrical stimulation of the neocortex in awake rats. <i>Journal of Sleep Research</i> , 2013, 22, 239-250.	1.7	42
54	Sleep and the single neuron: the role of global slow oscillations in individual cell rest. <i>Nature Reviews Neuroscience</i> , 2013, 14, 443-451.	4.9	244

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55	Cortical Neuronal Mechanisms of Sleep Homeostasis. Zhurnal Vyssei Nervnoi Deyatelnosti Imeni I P Pavlova, 2013, 63, 13-23.	0.3	2
56	Reduction of EEG Theta Power and Changes in Motor Activity in Rats Treated with Ceftriaxone. PLoS ONE, 2012, 7, e34139.	1.1	19
57	The Temporal Structure of Behaviour and Sleep Homeostasis. PLoS ONE, 2012, 7, e50677.	1.1	28
58	Electrophysiological correlates of sleep homeostasis in freely behaving rats. Progress in Brain Research, 2011, 193, 17-38.	0.9	97
59	Investigating Sleep Homeostasis with Extracellular Recording of Multiunit Activity from the Neocortex in Freely Behaving Rats. Neuromethods, 2011, , 237-258.	0.2	1
60	Regional Slow Waves and Spindles in Human Sleep. Neuron, 2011, 70, 153-169.	3.8	794
61	Local sleep in awake rats. Nature, 2011, 472, 443-447.	13.7	708
62	Synaptic Potentiation and Sleep Need: Clues from Molecular and Electrophysiological Studies. Current Topics in Medicinal Chemistry, 2011, 11, 2472-2482.	1.0	47
63	Unilateral Cortical Spreading Depression Affects Sleep Need and Induces Molecular and Electrophysiological Signs of Synaptic Potentiation In Vivo. Cerebral Cortex, 2010, 20, 2939-2947.	1.6	46
64	Sleep homeostasis in the rat is preserved during chronic sleep restriction. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15939-15944.	3.3	134
65	Effects of Skilled Training on Sleep Slow Wave Activity and Cortical Gene Expression in the Rat. Sleep, 2009, 32, 719-729.	0.6	139
66	Long-Term Homeostasis of Extracellular Glutamate in the Rat Cerebral Cortex across Sleep and Waking States. Journal of Neuroscience, 2009, 29, 620-629.	1.7	229
67	Author's reply to "Cerebral metabolism and sleep homeostasis: A comment on Vyazovskiy et al." Brain Research Bulletin, 2009, 80, 443-445.	1.4	3
68	Cortical Firing and Sleep Homeostasis. Neuron, 2009, 63, 865-878.	3.8	623
69	Triggering Slow Waves During NREM Sleep in the Rat by Intracortical Electrical Stimulation: Effects of Sleep/Wake History and Background Activity. Journal of Neurophysiology, 2009, 101, 1921-1931.	0.9	114
70	Molecular and electrophysiological evidence for net synaptic potentiation in wake and depression in sleep. Nature Neuroscience, 2008, 11, 200-208.	7.1	693
71	Homeostatic regulation of sleep in the white-crowned sparrow ( <i>Zonotrichia leucophrys gambelii</i> ). BMC Neuroscience, 2008, 9, 47.	0.8	66
72	Normal sleep homeostasis and lack of epilepsy phenotype in GABAA receptor $\beta 3$ subunit-knockout mice. Neuroscience, 2008, 154, 595-605.	1.1	34

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73	Cortical metabolic rates as measured by 2-deoxyglucose-uptake are increased after waking and decreased after sleep in mice. <i>Brain Research Bulletin</i> , 2008, 75, 591-597.	1.4	50
74	A Causal Role for Brain-Derived Neurotrophic Factor in the Homeostatic Regulation of Sleep. <i>Journal of Neuroscience</i> , 2008, 28, 4088-4095.	1.7	250
75	Handedness Leads to Interhemispheric EEG Asymmetry During Sleep in the Rat. <i>Journal of Neurophysiology</i> , 2008, 99, 969-975.	0.9	65
76	Alteration of behavior in mice by muscimol is associated with regional electroencephalogram synchronization. <i>Neuroscience</i> , 2007, 147, 833-841.	1.1	20
77	Sleep homeostasis in the rat in the light and dark period. <i>Brain Research Bulletin</i> , 2007, 74, 37-44.	1.4	84
78	Sleep Homeostasis and Cortical Synchronization: II. A Local Field Potential Study of Sleep Slow Waves in the Rat. <i>Sleep</i> , 2007, 30, 1631-1642.	0.6	201
79	Sleep Homeostasis and Cortical Synchronization: III. A High-Density EEG Study of Sleep Slow Waves in Humans. <i>Sleep</i> , 2007, 30, 1643-1657.	0.6	364
80	Sleep in <i>Kcna2</i> knockout mice. <i>BMC Biology</i> , 2007, 5, 42.	1.7	101
81	The EEG effects of THIP (Gaboxadol) on sleep and waking are mediated by the GABA $\hat{A}$ -subunit-containing receptors. <i>European Journal of Neuroscience</i> , 2007, 25, 1893-1899.	1.2	75
82	Running Wheel Accessibility Affects the Regional Electroencephalogram during Sleep in Mice. <i>Cerebral Cortex</i> , 2006, 16, 328-336.	1.6	61
83	Sleep and Rest Regulation in Young and Old Oestrogen-Deficient Female Mice. <i>Journal of Neuroendocrinology</i> , 2006, 18, 567-576.	1.2	25
84	Regional differences in NREM sleep slow-wave activity in mice with congenital callosal dysgenesis. <i>Journal of Sleep Research</i> , 2005, 14, 299-304.	1.7	32
85	Theta activity in the waking EEG is a marker of sleep propensity in the rat. <i>Brain Research</i> , 2005, 1050, 64-71.	1.1	172
86	The GABA $\hat{A}$ receptor agonist THIP alters the EEG in waking and sleep of mice. <i>Neuropharmacology</i> , 2005, 48, 617-626.	2.0	37
87	Regional pattern of metabolic activation is reflected in the sleep EEG after sleep deprivation combined with unilateral whisker stimulation in mice. <i>European Journal of Neuroscience</i> , 2004, 20, 1363-1370.	1.2	54
88	Interhemispheric coherence of the sleep electroencephalogram in mice with congenital callosal dysgenesis. <i>Neuroscience</i> , 2004, 124, 481-488.	1.1	33
89	Interhemispheric Sleep EEG Asymmetry in the Rat is Enhanced by Sleep Deprivation. <i>Journal of Neurophysiology</i> , 2002, 88, 2280-2286.	0.9	69
90	Sleep EEG in mice that are deficient in the potassium channel subunit K.v.3.2. <i>Brain Research</i> , 2002, 947, 204-211.	1.1	48

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91	Fast track: Unilateral vibrissae stimulation during waking induces interhemispheric EEG asymmetry during subsequent sleep in the rat. <i>Journal of Sleep Research</i> , 2000, 9, 367-371.	1.7	195
92	Long Photoperiod Restores the 24-h Rhythm of Sleep and EEG Slow-Wave Activity in the Djungarian Hamster ( <i>Phodopus sungorus</i> ). <i>Journal of Biological Rhythms</i> , 2000, 15, 429-436.	1.4	21