Vladyslav V Vyazovskiy

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Regional Slow Waves and Spindles in Human Sleep. Neuron, 2011, 70, 153-169.	3.8	794
2	Local sleep in awake rats. Nature, 2011, 472, 443-447.	13.7	708
3	Molecular and electrophysiological evidence for net synaptic potentiation in wake and depression in sleep. Nature Neuroscience, 2008, 11, 200-208.	7.1	693
4	Cortical Firing and Sleep Homeostasis. Neuron, 2009, 63, 865-878.	3.8	623
5	Sleep Homeostasis and Cortical Synchronization: III. A High-Density EEG Study of Sleep Slow Waves in Humans. Sleep, 2007, 30, 1643-1657.	0.6	364
6	A Causal Role for Brain-Derived Neurotrophic Factor in the Homeostatic Regulation of Sleep. Journal of Neuroscience, 2008, 28, 4088-4095.	1.7	250
7	Sleep and the single neuron: the role of global slow oscillations in individual cell rest. Nature Reviews Neuroscience, 2013, 14, 443-451.	4.9	244
8	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
9	Sleep Homeostasis and Cortical Synchronization: II. A Local Field Potential Study of Sleep Slow Waves in the Rat. Sleep, 2007, 30, 1631-1642.	0.6	201
10	Fast track: Unilateral vibrissae stimulation during waking induces interhemispheric EEG asymmetry during subsequent sleep in the rat. Journal of Sleep Research, 2000, 9, 367-371.	1.7	195
11	Light and Cognition: Roles for Circadian Rhythms, Sleep, and Arousal. Frontiers in Neurology, 2018, 9, 56.	1.1	189
12	Theta activity in the waking EEG is a marker of sleep propensity in the rat. Brain Research, 2005, 1050, 64-71.	1.1	172
13	Effects of Skilled Training on Sleep Slow Wave Activity and Cortical Gene Expression in the Rat. Sleep, 2009, 32, 719-729.	0.6	139
14	Learning by Association in Plants. Scientific Reports, 2016, 6, 38427.	1.6	137
15	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
16	Melanopsin Regulates Both Sleep-Promoting and Arousal-Promoting Responses to Light. PLoS Biology, 2016, 14, e1002482.	2.6	129
17	NREM and REM Sleep. Neuroscientist, 2014, 20, 203-219.	2.6	125
18	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

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19	Auditory Responses and Stimulus-Specific Adaptation in Rat Auditory Cortex are Preserved Across NREM and REM Sleep. Cerebral Cortex, 2015, 25, 1362-1378.	1.6	102
20	Sleep in Kcna2 knockout mice. BMC Biology, 2007, 5, 42.	1.7	101
21	Electrophysiological correlates of sleep homeostasis in freely behaving rats. Progress in Brain Research, 2011, 193, 17-38.	0.9	97
22	Lempel-Ziv complexity of cortical activity during sleep and waking in rats. Journal of Neurophysiology, 2015, 113, 2742-2752.	0.9	94
23	Sleep homeostasis in the rat in the light and dark period. Brain Research Bulletin, 2007, 74, 37-44.	1.4	84
24	The EEG effects of THIP (Gaboxadol) on sleep and waking are mediated by the GABAAδ-subunit-containing receptors. European Journal of Neuroscience, 2007, 25, 1893-1899.	1.2	75
25	Sleep, recovery, and metaregulation: explaining the benefits of sleep. Nature and Science of Sleep, 2015, 7, 171.	1.4	73
26	A role for the cortex in sleep–wake regulation. Nature Neuroscience, 2021, 24, 1210-1215.	7.1	73
27	Interhemispheric Sleep EEG Asymmetry in the Rat is Enhanced by Sleep Deprivation. Journal of Neurophysiology, 2002, 88, 2280-2286.	0.9	69
28	Homeostatic regulation of sleep in the white-crowned sparrow (Zonotrichia leucophrys gambelii). BMC Neuroscience, 2008, 9, 47.	0.8	66
29	Handedness Leads to Interhemispheric EEG Asymmetry During Sleep in the Rat. Journal of Neurophysiology, 2008, 99, 969-975.	0.9	65
30	Environment shapes sleep patterns in a wild nocturnal primate. Scientific Reports, 2019, 9, 9939.	1.6	65
31	Effects of Aging on Cortical Neural Dynamics and Local Sleep Homeostasis in Mice. Journal of Neuroscience, 2018, 38, 3911-3928.	1.7	63
32	Running Wheel Accessibility Affects the Regional Electroencephalogram during Sleep in Mice. Cerebral Cortex, 2006, 16, 328-336.	1.6	61
33	Why Does Sleep Slow-Wave Activity Increase After Extended Wake? Assessing the Effects of Increased Cortical Firing During Wake and Sleep. Journal of Neuroscience, 2016, 36, 12436-12447.	1.7	60
34	Stereotypic wheel running decreases cortical activity in mice. Nature Communications, 2016, 7, 13138.	5.8	60
35	Responses in Rat Core Auditory Cortex are Preserved during Sleep Spindle Oscillations. Sleep, 2016, 39, 1069-1082.	0.6	56
36	Differences in electroencephalographic non-rapid-eye movement sleep slow-wave characteristics between young and old mice. Scientific Reports, 2017, 7, 43656.	1.6	55

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37	Regional pattern of metabolic activation is reflected in the sleep EEG after sleep deprivation combined with unilateral whisker stimulation in mice. European Journal of Neuroscience, 2004, 20, 1363-1370.	1.2	54
38	Cortical metabolic rates as measured by 2-deoxyglucose-uptake are increased after waking and decreased after sleep in mice. Brain Research Bulletin, 2008, 75, 591-597.	1.4	50
39	Sleep EEG in mice that are deficient in the potassium channel subunit K.v.3.2. Brain Research, 2002, 947, 204-211.	1.1	48
40	Synaptic Potentiation and Sleep Need: Clues from Molecular and Electrophysiological Studies. Current Topics in Medicinal Chemistry, 2011, 11, 2472-2482.	1.0	47
41	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
42	The Dynamics of Cortical Neuronal Activity in the First Minutes after Spontaneous Awakening in Rats and Mice. Sleep, 2014, 37, 1337-1347.	0.6	44
43	Prolonged wakefulness alters neuronal responsiveness to local electrical stimulation of the neocortex in awake rats. Journal of Sleep Research, 2013, 22, 239-250.	1.7	42
44	The Interplay between Long- and Short-Range Temporal Correlations Shapes Cortex Dynamics across Vigilance States. Journal of Neuroscience, 2017, 37, 10114-10124.	1.7	39
45	Cortical region–specific sleep homeostasis in mice: effects of time of day and waking experience. Sleep, 2018, 41, .	0.6	39
46	The GABAA receptor agonist THIP alters the EEG in waking and sleep of mice. Neuropharmacology, 2005, 48, 617-626.	2.0	37
47	The continued need for animals to advance brain research. Neuron, 2021, 109, 2374-2379.	3.8	36
48	Normal sleep homeostasis and lack of epilepsy phenotype in GABAA receptor α3 subunit-knockout mice. Neuroscience, 2008, 154, 595-605.	1.1	34
49	Interhemispheric coherence of the sleep electroencephalogram in mice with congenital callosal dysgenesis. Neuroscience, 2004, 124, 481-488.	1.1	33
50	Regional differences in NREM sleep slow-wave activity in mice with congenital callosal dysgenesis. Journal of Sleep Research, 2005, 14, 299-304.	1.7	32
51	Global sleep homeostasis reflects temporally and spatially integrated local cortical neuronal activity. ELife, 2020, 9, .	2.8	31
52	Absent sleep EEG spindle activity in GluA1 (Gria1) knockout mice: relevance to neuropsychiatric disorders. Translational Psychiatry, 2018, 8, 154.	2.4	29
53	The Temporal Structure of Behaviour and Sleep Homeostasis. PLoS ONE, 2012, 7, e50677.	1.1	28
54	Sleep homeostasis, habits and habituation. Current Opinion in Neurobiology, 2017, 44, 202-211.	2.0	27

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55	Sleep and Rest Regulation in Young and Old Oestrogen-Deficient Female Mice. Journal of Neuroendocrinology, 2006, 18, 567-576.	1.2	25
56	Eat, sleep, repeat: the role of the circadian system in balancing sleep–wake control with metabolic need. Current Opinion in Physiology, 2020, 15, 183-191.	0.9	25
57	Long Photoperiod Restores the 24-h Rhythm of Sleep and EEG Slow-Wave Activity in the Djungarian Hamster (Phodopus sungorus). Journal of Biological Rhythms, 2000, 15, 429-436.	1.4	21
58	Waking experience modulates sleep need in mice. BMC Biology, 2021, 19, 65.	1.7	21
59	Alteration of behavior in mice by muscimol is associated with regional electroencephalogram synchronization. Neuroscience, 2007, 147, 833-841.	1.1	20
60	Dim light in the evening causes coordinated realignment of circadian rhythms, sleep, and short-term memory. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	20
61	Reduction of EEG Theta Power and Changes in Motor Activity in Rats Treated with Ceftriaxone. PLoS ONE, 2012, 7, e34139.	1.1	19
62	Sleep homeostasis during daytime food entrainment in mice. Sleep, 2019, 42, .	0.6	19
63	The hypothalamic link between arousal and sleep homeostasis in mice. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	19
64	Sleep and Synaptic Homeostasis. Current Topics in Behavioral Neurosciences, 2014, 25, 91-121.	0.8	18
65	Diazepam effects on local cortical neural activity during sleep in mice. Biochemical Pharmacology, 2021, 191, 114515.	2.0	18
66	Continuous and non-invasive thermography of mouse skin accurately describes core body temperature patterns, but not absolute core temperature. Scientific Reports, 2020, 10, 20680.	1.6	16
67	Effects of circadian misalignment on sleep in mice. Scientific Reports, 2018, 8, 15343.	1.6	15
68	Forward genetics identifies a novel sleep mutant with sleep state inertia and REM sleep deficits. Science Advances, 2020, 6, eabb3567.	4.7	15
69	Human lesions and animal studies link the claustrum to perception, salience, sleep and pain. Brain, 2022, 145, 1610-1623.	3.7	15
70	Banking Sleep and Biological Sleep Need. Sleep, 2015, 38, 1843-1845.	0.6	14
71	Constant Light Desynchronizes Olfactory versus Object and Visuospatial Recognition Memory Performance. Journal of Neuroscience, 2017, 37, 3555-3567.	1.7	13
72	Sleep and ageing: from human studies to rodent models. Current Opinion in Physiology, 2020, 15, 210-216.	0.9	13

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73	Deletion of AMPA receptor GluA1 subunit gene (Gria1) causes circadian rhythm disruption and aberrant responses to environmental cues. Translational Psychiatry, 2021, 11, 588.	2.4	13
74	Sleep and Serotonin Modulate Paracapsular Nitric Oxide Synthase Expressing Neurons of the Amygdala. ENeuro, 2016, 3, ENEURO.0177-16.2016.	0.9	12
75	Local Sleep Taking Care of High-Maintenance Cortical Circuits under Sleep Restriction. Sleep, 2014, 37, 1727-1730.	0.6	11
76	Modulation of recognition memory performance by light and its relationship with cortical EEG theta and gamma activities. Biochemical Pharmacology, 2021, 191, 114404.	2.0	11
77	Long-term history and immediate preceding state affect EEG slow wave characteristics at NREM sleep onset in C57BL/6 mice. Archives Italiennes De Biologie, 2015, 152, 156-68.	0.1	11
78	Psilocin acutely alters sleep-wake architecture and cortical brain activity in laboratory mice. Translational Psychiatry, 2022, 12, 77.	2.4	11
79	The relationship between fasting-induced torpor, sleep, and wakefulness in laboratory mice. Sleep, 2021, 44, .	0.6	10
80	Comment on 'Lack of evidence for associative learning in pea plants'. ELife, 2020, 9, .	2.8	10
81	Sleep: A Biological Stimulus from Our Nearest Celestial Neighbor?. Current Biology, 2014, 24, R557-R560.	1.8	8
82	Neuronalâ€spikingâ€based closedâ€loop stimulation during cortical <scp>ON</scp> ―and <scp>OFF</scp> â€states in freely moving mice. Journal of Sleep Research, 2022, 31, .	1.7	6
83	Re-examining extreme sleep duration in bats: implications for sleep phylogeny, ecology, and function. Sleep, 2022, 45, .	0.6	5
84	Tinnitus: at a crossroad between phantom perception and sleep. Brain Communications, 2022, 4, .	1.5	5
85	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
86	Rodent models in translational circadian photobiology. Progress in Brain Research, 2022, , 97-116.	0.9	3
87	Mapping the birth of the sleep connectome. Science, 2015, 350, 909-910.	6.0	2
88	Cortical Neuronal Mechanisms of Sleep Homeostasis. Zhurnal Vysshei Nervnoi Deyatelnosti Imeni I P Pavlova, 2013, 63, 13-23.	0.3	2
89	Investigating Sleep Homeostasis with Extracellular Recording of Multiunit Activity from the Neocortex in Freely Behaving Rats. Neuromethods, 2011, , 237-258.	0.2	1
90	Sleep- and Wake-Like States in Small Networks In Vivo and In Vitro. Handbook of Experimental Pharmacology, 2018, 253, 97-121.	0.9	1

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91	Unresponsive or just asleep? Do local slow waves in the perilesional cortex have a function?. Brain, 2020, 143, 3513-3515.	3.7	1
92	Too sleepy for school: is sleep in teenagers homeostatically regulated under chronic sleep restriction?. Sleep, 2021, 44, .	0.6	0