

Robert E Strecker

List of Publications by Year in descending order

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69
papers

7,359
citations

126907

33
h-index

106344

65
g-index

71
all docs

71
docs citations

71
times ranked

5948
citing authors

#	ARTICLE	IF	CITATIONS
1	Adenosine: A Mediator of the Sleep-Inducing Effects of Prolonged Wakefulness. <i>Science</i> , 1997, 276, 1265-1268.	12.6	1,120
2	Control of Sleep and Wakefulness. <i>Physiological Reviews</i> , 2012, 92, 1087-1187.	28.8	1,089
3	Adenosine and sleep-wake regulation. <i>Progress in Neurobiology</i> , 2004, 73, 379-396.	5.7	515
4	Behavioral correlates of dopaminergic unit activity in freely moving cats. <i>Brain Research</i> , 1983, 258, 217-228.	2.2	335
5	Adenosinergic modulation of basal forebrain and preoptic/anterior hypothalamic neuronal activity in the control of behavioral state. <i>Behavioural Brain Research</i> , 2000, 115, 183-204.	2.2	335
6	Mechanisms of action of intracerebral neural implants: studies on nigral and striatal grafts to the lesioned striatum. <i>Trends in Neurosciences</i> , 1987, 10, 509-516.	8.6	328
7	Cortically projecting basal forebrain parvalbumin neurons regulate cortical gamma band oscillations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3535-3540.	7.1	246
8	Endogenous Release of Neuronal Serotonin and 5-Hydroxyindoleacetic Acid in the Caudate-Putamen of the Rat as Revealed by Intracerebral Dialysis Coupled to High-Performance Liquid Chromatography with Fluorimetric Detection. <i>Journal of Neurochemistry</i> , 1988, 51, 1422-1435.	3.9	237
9	Common scale-invariant patterns of sleep-wake transitions across mammalian species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 17545-17548.	7.1	231
10	The cognitive cost of sleep lost. <i>Neurobiology of Learning and Memory</i> , 2011, 96, 564-582.	1.9	217
11	Behavioral State Control through Differential Serotonergic Inhibition in the Mesopontine Cholinergic Nuclei: A Simultaneous Unit Recording and Microdialysis Study. <i>Journal of Neuroscience</i> , 1998, 18, 5490-5497.	3.6	191
12	Hippocampal synaptic plasticity and spatial learning are impaired in a rat model of sleep fragmentation. <i>European Journal of Neuroscience</i> , 2006, 23, 2739-2748.	2.6	185
13	Regulation of striatal serotonin release by the lateral habenula-dorsal raphe pathway in the rat as demonstrated by in vivo microdialysis: role of excitatory amino acids and GABA. <i>Brain Research</i> , 1989, 492, 187-202.	2.2	124
14	Genetically Modified Primary Astrocytes as Cellular Vehicles for Gene Therapy in the Brain. <i>Cell Transplantation</i> , 1993, 2, 207-214.	2.5	119
15	In vivo neurochemical monitoring by microdialysis and capillary separations. <i>Current Opinion in Chemical Biology</i> , 2002, 6, 659-665.	6.1	114
16	Substantia nigra dopaminergic unit activity in behaving cats: Effect of arousal on spontaneous discharge and sensory evoked activity. <i>Brain Research</i> , 1985, 361, 339-350.	2.2	107
17	Chronic sleep restriction elevates brain interleukin-1 beta and tumor necrosis factor-alpha and attenuates brain-derived neurotrophic factor expression. <i>Neuroscience Letters</i> , 2014, 580, 27-31.	2.1	100
18	Experimental sleep fragmentation and sleep deprivation in rats increases exploration in an open field test of anxiety while increasing plasma corticosterone levels. <i>Behavioural Brain Research</i> , 2009, 197, 450-453.	2.2	90

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19	Raphe unit activity in freely moving cats is altered by manipulations of central but not peripheral motor systems. <i>Brain Research</i> , 1983, 279, 77-84.	2.2	89
20	Adenosine as a Biological Signal Mediating Sleepiness following Prolonged Wakefulness. <i>NeuroSignals</i> , 2000, 9, 319-327.	0.9	74
21	Midbrain 6-hydroxydopamine lesions modulate blink reflex excitability. <i>Experimental Brain Research</i> , 1993, 94, 88-96.	1.5	70
22	Experimental Sleep Fragmentation Impairs Attentional Set-Shifting in Rats. <i>Sleep</i> , 2007, 30, 52-60.	1.1	70
23	Single unit response of noradrenergic, serotonergic and dopaminergic neurons in freely moving cats to simple sensory stimuli. <i>Brain Research</i> , 1986, 369, 336-340.	2.2	66
24	Spatial learning and memory deficits following exposure to 24h of sleep fragmentation or intermittent hypoxia in a rat model of obstructive sleep apnea. <i>Brain Research</i> , 2009, 1294, 128-137.	2.2	62
25	Effect of acute and chronic fluoxetine on extracellular dopamine levels in the caudate-putamen and nucleus accumbens of rat. , 1996, 23, 125-131.		60
26	Response of dopaminergic neurons in cat to auditory stimuli presented across the sleep-waking cycle. <i>Brain Research</i> , 1983, 277, 150-154.	2.2	59
27	24h of sleep deprivation in the rat increases sleepiness and decreases vigilance: introduction of the rat psychomotor vigilance task. <i>Journal of Sleep Research</i> , 2008, 17, 376-384.	3.2	54
28	The 5-HT3 antagonist zacopride attenuates cocaine-induced increases in extracellular dopamine in rat nucleus accumbens. <i>Pharmacology Biochemistry and Behavior</i> , 1993, 45, 759-763.	2.9	52
29	The NLRP3 inflammasome modulates sleep and NREM sleep delta power induced by spontaneous wakefulness, sleep deprivation and lipopolysaccharide. <i>Brain, Behavior, and Immunity</i> , 2017, 62, 137-150.	4.1	50
30	Wakefulness-inducing effects of histamine in the basal forebrain of freely moving rats. <i>Behavioural Brain Research</i> , 2004, 152, 271-278.	2.2	48
31	Thalamic Reticular Nucleus Parvalbumin Neurons Regulate Sleep Spindles and Electrophysiological Aspects of Schizophrenia in Mice. <i>Scientific Reports</i> , 2019, 9, 3607.	3.3	46
32	Sleep deprivation in rats produces attentional impairments on a 5-choice serial reaction time task. <i>Sleep</i> , 2006, 29, 69-76.	1.1	46
33	Decoupling of Sleepiness from Sleep Time and Intensity during Chronic Sleep Restriction: Evidence for a Role of the Adenosine System. <i>Sleep</i> , 2012, 35, 861-869.	1.1	45
34	Learning and memory are impaired in the object recognition task during metestrus/diestrus and after sleep deprivation. <i>Behavioural Brain Research</i> , 2018, 339, 124-129.	2.2	44
35	Validation of an automated sleep spindle detection method for mouse electroencephalography. <i>Sleep</i> , 2019, 42, .	1.1	40
36	Sleep fragmentation reduces hippocampal CA1 pyramidal cell excitability and response to adenosine. <i>Neuroscience Letters</i> , 2010, 469, 1-5.	2.1	35

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37	Basal Forebrain Parvalbumin Neurons Mediate Arousals from Sleep Induced by Hypercarbia or Auditory Stimuli. <i>Current Biology</i> , 2020, 30, 2379-2385.e4.	3.9	35
38	Microdialysis elevation of adenosine in the basal forebrain produces vigilance impairments in the rat psychomotor vigilance task. <i>Sleep</i> , 2008, 31, 1393-8.	1.1	33
39	Sleep allostasis in chronic sleep restriction: The role of the norepinephrine system. <i>Brain Research</i> , 2013, 1531, 9-16.	2.2	32
40	Another Chapter in the Adenosine Story. <i>Sleep</i> , 2006, 29, 426-428.	1.1	31
41	Caudate unit activity in freely moving cats: effects of phasic auditory and visual stimuli. <i>Brain Research</i> , 1985, 329, 350-353.	2.2	30
42	Chronic sleep restriction induces long-lasting changes in adenosine and noradrenaline receptor density in the rat brain. <i>Journal of Sleep Research</i> , 2015, 24, 549-558.	3.2	30
43	Electrical stimulation of the kindled hippocampus briefly increases extracellular dopamine in the nucleus accumbens. <i>Neuroscience Letters</i> , 1994, 176, 173-177.	2.1	29
44	Experimental sleep fragmentation impairs spatial reference but not working memory in Fischer/Brown Norway rats. <i>Journal of Sleep Research</i> , 2009, 18, 238-244.	3.2	29
45	Alterations in sleep, sleep spindle, and EEG power in mGluR5 knockout mice. <i>Journal of Neurophysiology</i> , 2020, 123, 22-33.	1.8	28
46	Phasic but not tonic REM-selective discharge of periaqueductal gray neurons in freely behaving animals: relevance to postulates of GABAergic inhibition of monoaminergic neurons. <i>Brain Research</i> , 2002, 945, 276-280.	2.2	27
47	Differential modulation of global and local neural oscillations in REM sleep by homeostatic sleep regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E1727-E1736.	7.1	27
48	Optogenetic manipulation of an ascending arousal system tunes cortical broadband gamma power and reveals functional deficits relevant to schizophrenia. <i>Molecular Psychiatry</i> , 2021, 26, 3461-3475.	7.9	26
49	One week of exposure to intermittent hypoxia impairs attentional set-shifting in rats. <i>Behavioural Brain Research</i> , 2010, 210, 123-126.	2.2	25
50	Effects of a patient-derived de novo coding alteration of CACNA1I in mice connect a schizophrenia risk gene with sleep spindle deficits. <i>Translational Psychiatry</i> , 2020, 10, 29.	4.8	25
51	Preparation and Intracerebral Grafting of Dissociated Fetal Brain Tissue in Rats. <i>Methods in Neurosciences</i> , 1991, 7, 305-326.	0.5	24
52	Dopaminergic unit activity in freely moving cats: Lack of relationship to feeding, satiety, and glucose injections. <i>Brain Research</i> , 1983, 260, 317-321.	2.2	23
53	Extracellular dopamine and its metabolites in the nucleus accumbens of fischer and lewis rats: Basal levels and cocaine-induced changes. <i>Life Sciences</i> , 1994, 56, PL135-PL141.	4.3	23
54	Assessing sleepiness in the rat: a multiple sleep latencies test compared to polysomnographic measures of sleepiness. <i>Journal of Sleep Research</i> , 2008, 17, 365-375.	3.2	23

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55	Chronic sleep restriction impairs spatial memory in rats. <i>NeuroReport</i> , 2013, 24, 91-95.	1.2	23
56	Differential modulation of NREM sleep regulation and EEG topography by chronic sleep restriction in mice. <i>Scientific Reports</i> , 2020, 10, 18.	3.3	21
57	Sleep fragmentation impairs ventilatory long-term facilitation via adenosine A1 receptors. <i>Journal of Physiology</i> , 2008, 586, 5215-5229.	2.9	19
58	Somatostatin+/nNOS+ neurons are involved in delta electroencephalogram activity and cortical-dependent recognition memory. <i>Sleep</i> , 2019, 42, .	1.1	17
59	Chronic ramelteon treatment in a mouse model of Alzheimer's disease. <i>Archives Italiennes De Biologie</i> , 2012, 150, 5-14.	0.4	15
60	A rodent cage change insomnia model disrupts memory consolidation. <i>Journal of Sleep Research</i> , 2019, 28, e12792.	3.2	13
61	The characterization of the effect of locally applied N-methylquipazine, a 5-HT3 receptor agonist, on extracellular dopamine levels in the anterior medial prefrontal cortex in the rat: An in vivo microdialysis study. , 1996, 24, 313-321.		12
62	Dopamine Depletion in Nucleus Accumbens Influences Locomotion But Not Force and Timing of Operant Responding. <i>Pharmacology Biochemistry and Behavior</i> , 1998, 59, 737-745.	2.9	12
63	The dual orexinergic receptor antagonist DORA-22 improves the sleep disruption and memory impairment produced by a rodent insomnia model. <i>Sleep</i> , 2020, 43, .	1.1	11
64	Twenty-four hours, or five days, of continuous sleep deprivation or experimental sleep fragmentation do not alter thirst or motivation for water reward in rats. <i>Behavioural Brain Research</i> , 2010, 214, 180-186.	2.2	8
65	Low doses of apomorphine suppress operant motor performance in rats. <i>Pharmacology Biochemistry and Behavior</i> , 1996, 53, 335-340.	2.9	7
66	The Dual Orexin Receptor Antagonist DORA-22 Improves Mild Stress-induced Sleep Disruption During the Natural Sleep Phase of Nocturnal Rats. <i>Neuroscience</i> , 2021, 463, 30-44.	2.3	3
67	Neurochemistry of wakefulness and sleep. , 2012, , 23-42.		2
68	A comparison of the effects of amphetamine and low doses of apomorphine on operant force production, interresponse times and response duration in rat. <i>Psychopharmacology</i> , 1999, 145, 351-359.	3.1	1
69	O093 Orexin Receptor Antagonism Improves Stress-related Insomnia, "Next Day" Hypersomnia, And Sleep Dependent Memory Consolidation In The Rat. <i>Sleep</i> , 2019, 42, A38-A38.	1.1	0