Robert W Greene

List of Publications by Year
in descending order

106 papers	10,396 citations	38720 50 h-index	37183 96 g-index
109 all docs	109 docs citations	109 times ranked	8582 citing authors

#	Article	IF	Citations
1	Adenosine: A Mediator of the Sleep-Inducing Effects of Prolonged Wakefulness. Science, 1997, 276, 1265-1268.	6.0	1,120
2	Essential role of brain-derived neurotrophic factor in adult hippocampal function. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 10827-10832.	3.3	597
3	Gamma Frequencyâ€“Range Abnormalities to Auditory Stimulation in Schizophrenia. Archives of General Psychiatry, 1999, 56, 1001.	13.8	584
4	Locus coeruleus and dopaminergic consolidation of everyday memory. Nature, 2016, 537, 357-362.	13.7	561
5	NMDA-dependent modulation of CA1 local circuit inhibition. Journal of Neuroscience, 1996, 16, 2034-2043.	1.7	449
6	Adenosine inhibition of mesopontine cholinergic neurons: implications for EEG arousal. Science, 1994, 263, 689-692.	6.0	410
7	Modulation of N-methyl-D-aspartate receptor function by glycine transport. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 15730-15734.	3.3	406
8	Adenosinergic modulation of basal forebrain and preoptic/anterior hypothalamic neuronal activity in the control of behavioral state. Behavioural Brain Research, 2000, 115, 183-204.	1.2	335
9	Serotonin hyperpolarizes cholinergic low-threshold burst neurons in the rat laterodorsal tegmental nucleus in vitro.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 743-747.	3.3	308
10	Abnormal fear response and aggressive behavior in mutant mice deficient for alpha-calcium-calmodulin kinase II. Science, 1994, 266, 291-294.	6.0	288
11	Role of adenosine in behavioral state modulation: a microdialysis study in the freely moving cat. Neuroscience, 1997, 79, 225-235.	1.1	280
12	Postreactivation Glucocorticoids Impair Recall of Established Fear Memory. Journal of Neuroscience, 2006, 26, 9560-9566.	1.7	220
13	Hippocampal Focal Knockout of CBP Affects Specific Histone Modifications, Long-Term Potentiation, and Long-Term Memory. Neuropsychopharmacology, 2011, 36, 1545-1556.	2.8	207
14	Brainstem neuromodulation and REM sleep. Seminars in Neuroscience, 1995, 7, 341-354.	2.3	196
15	Control and Function of the Homeostatic Sleep Response by Adenosine A₁Receptors. Journal of Neuroscience, 2009, 29, 1267-1276.	1.7	175
16	Presynaptic Nicotinic Receptors Facilitate Monoaminergic Transmission. Journal of Neuroscience, 1998, 18, 1904-1912.	1.7	170
17	Characterization of inhibition mediated by adenosine in the hippocampus of the rat in vitro.. Journal of Physiology, 1989, 417, 567-578.	1.3	157
18	CNS Dopamine Transmission Mediated by Noradrenergic Innervation. Journal of Neuroscience, 2012, 32, 6072-6080.	1.7	156

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19	Adenosine and Sleep. Current Neuropharmacology, 2009, 7, 238-245.	1.4	137
20	Circuit analysis of NMDAR hypofunction in the hippocampus, in vitro, and psychosis of schizophrenia. Hippocampus, 2001, 11, 569-577.	0.9	134
21	Disinhibition of ventrolateral preoptic area sleep-active neurons by adenosine: a new mechanism for sleep promotion. Neuroscience, 2004, 123, 451-457.	1.1	133
22	Adenosine enhances afterhyperpolarization and accommodation in hippocampal pyramidal cells. Pflugers Archiv European Journal of Physiology, 1984, 402, 244-247.	1.3	123
23	Adenosine actions on CA1 pyramidal neurones in rat hippocampal slices.. Journal of Physiology, 1985, 366, 119-127.	1.3	121
24	Effects of adenosine on gabaergic synaptic inputs to identified ventrolateral preoptic neurons. Neuroscience, 2003, 119, 913-918.	1.1	120
25	Actions of neurotransmitters on pontine medical reticular formation neurons of the cat. Journal of Neurophysiology, 1985, 54, 520-531.	0.9	93
26	Transient 23â€“30 Hz oscillations in mouse hippocampus during exploration of novel environments. Hippocampus, 2008, 18, 519-529.	0.9	93
27	Focal Deletion of the Adenosine A1 Receptor in Adult Mice Using an Adeno-Associated Viral Vector. Journal of Neuroscience, 2003, 23, 5762-5770.	1.7	92
28	Action and location of neuropeptide tyrosine (Y) on hippocampal neurons of the rat in slice preparations. Journal of Comparative Neurology, 1987, 257, 208-215.	0.9	91
29	The Role of CA3 Hippocampal NMDA Receptors in Paired Associate Learning. Journal of Neuroscience, 2006, 26, 908-915.	1.7	91
30	Glycine-mediated inhibitory postsynaptic potentials in the medial pontine reticular formation of the ratin vitro. Neuroscience, 1996, 73, 791-796.	1.1	89
31	An Adenosine-Mediated Glial-Neuronal Circuit for Homeostatic Sleep. Journal of Neuroscience, 2016, 36, 3709-3721.	1.7	89
32	Effects of histamine on hippocampal pyramidal cells of the rat in vitro. Experimental Brain Research, 1986, 62, 123-30.	0.7	86
33	Cognitive dysfunction in schizophrenia: unifying basic research and clinical aspects. European Archives of Psychiatry and Clinical Neuroscience, 1999, 249, S69-S82.	1.8	85
34	Endogenous adenosine inhibits hippocampal CA1 neurones: further evidence from extra- and intracellular recording. Naunyn-Schmiedeberg's Archives of Pharmacology, 1988, 337, 561-5.	1.4	83
35	The Geometry of Locomotive Behavioral States in C. elegans. PLoS ONE, 2013, 8, e59865.	1.1	79
36	High Frequency EEG Activity during Sleep: Characteristics in Schizophrenia and Depression. Clinical EEG and Neuroscience, 2005, 36, 25-35.	0.9	78

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37	Behavioral and biochemical dissociation of arousal and homeostatic sleep need influenced by prior wakeful experience in mice. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10288-10293.	3.3	74
38	Effects of prefrontal cortex and hippocampal NMDA NR1-subunit deletion on complex cognitive and social behaviors. Brain Research, 2015, 1600, 70-83.	1.1	72
39	Gating and the Need for Sleep: Dissociable Effects of Adenosine A1 and A2A Receptors. Frontiers in Neuroscience, 2019, 13, 740.	1.4	70
40	Adenosine-Mediated Presynaptic Modulation of Glutamatergic Transmission in the Laterodorsal Tegmentum. Journal of Neuroscience, 2001, 21, 1076-1085.	1.7	66
41	Effects of caffeine on hippocampal pyramidal cells in vitro. British Journal of Pharmacology, 1985, 85, 163-169.	2.7	64
42	Inhibitory action of muscarinic agonists on neurons in the rat laterodorsal tegmental nucleus in vitro. Journal of Neurophysiology, 1993, 70, 2128-2135.	0.9	63
43	Modulation of Calcium and Potassium Currents by Lamotrigine. Neuropsychobiology, 1998, 38, 131-138.	0.9	62
44	A low threshold calcium spike mediates firing pattern alterations in pontine reticular neurons. Science, 1986, 234, 738-740.	6.0	61
45	Adenosine Mediation of Presynaptic Feedback Inhibition of Glutamate Release. Neuron, 2005, 46, 275-283.	3.8	60
46	NAAG Reduces NMDA Receptor Current in CA1 Hippocampal Pyramidal Neurons of Acute Slices and Dissociated Neurons. Neuropsychopharmacology, 2005, 30, 7-16.	2.8	60
47	Schaffer collateral and perforant path inputs activate different subtypes of NMDA receptors on the same CA1 pyramidal cell. British Journal of Pharmacology, 2004, 142, 317-322.	2.7	59
48	The adenosine-mediated, neuronal-glial, homeostatic sleep response. Current Opinion in Neurobiology, 2017, 44, 236-242.	2.0	58
49	Two transient outward currents in histamine neurones of the rat hypothalamus in vitro.. Journal of Physiology, 1990, 420, 149-163.	1.3	57
50	Slow Wave Activity During Sleep: Functional and Therapeutic Implications. Neuroscientist, 2010, 16, 618-633.	2.6	56
51	Nicotinic excitation of rat hypoglossal motoneurons. Neuroscience, 2002, 115, 861-870.	1.1	53
52	Essential Role for Vav Guanine Nucleotide Exchange Factors in Brain-Derived Neurotrophic Factor-Induced Dendritic Spine Growth and Synapse Plasticity. Journal of Neuroscience, 2011, 31, 12426-12436.	1.7	52
53	Muscarinic agonists activate an inwardly rectifying potassium conductance in medial pontine reticular formation neurons of the rat in vitro. Journal of Neuroscience, 1991, 11, 3861-3867.	1.7	50
54	Serotonin1 and serotonin2 receptors hyperpolarize and depolarize separate populations of medial pontine reticular formation neurons in vitro. Neuroscience, 1992, 47, 545-553.	1.1	46

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55	Adenosine Induces Inositol 1,4,5-Trisphosphate Receptor-Mediated Mobilization of Intracellular Calcium Stores in Basal Forebrain Cholinergic Neurons. Journal of Neuroscience, 2002, 22, 7680-7686.	1.7	44
56	IgE-challenged human lung mast cells excite vagal sensory neurons in vitro. Journal of Applied Physiology, 1988, 64, 2249-2253.	1.2	43
57	D₁/D₅Modulation of Synaptic NMDA Receptor Currents. Journal of Neuroscience, 2009, 29, 3109-3119.	1.7	43
58	Deletion of presynaptic adenosine A1 receptors impairs the recovery of synaptic transmission after hypoxia. Neuroscience, 2005, 132, 575-580.	1.1	42
59	Lamotrigine may limit pathological excitation in the hippocampus by modulating a transient potassium outward current. Brain Research, 1998, 791, 330-334.	1.1	40
60	Biphasic responses to acetylcholine in mammalian reticulospinal neurons. Cellular and Molecular Neurobiology, 1981, 1, 401-405.	1.7	39
61	Effects of histamine on dentate granule cells in vitro. Neuroscience, 1990, 34, 299-303.	1.1	37
62	Sleep: A Functional Enigma. NeuroMolecular Medicine, 2004, 5, 059-068.	1.8	37
63	Endogenous N-acetylaspartylglutamate reduced NMDA receptor-dependent current neurotransmission in the CA1 area of the hippocampus. Journal of Neurochemistry, 2007, 100, 346-357.	2.1	37
64	Distribution of NADPH-diaphorase positive somata in the brainstem of the monitor lizard Varanus exanthematicus. Neuroscience Letters, 1992, 148, 129-132.	1.0	36
65	The mechanism of noradrenergic alpha 1 excitatory modulation of pontine reticular formation neurons. Journal of Neuroscience, 1994, 14, 6481-6487.	1.7	36
66	Excitatory amino acid-mediated responses and synaptic potentials in medial pontine reticular formation neurons of the rat in vitro. Journal of Neuroscience, 1992, 12, 4188-4194.	1.7	34
67	Brain stem afferents to the periabducens reticular formations (PARF) in the cat. Experimental Brain Research, 1981, 44, 419-26.	0.7	27
68	Molecular characterization of recombinant mouse adenosine kinase and evaluation as a target for protein phosphorylation. FEBS Journal, 2004, 271, 3547-3555.	0.2	26
69	Repetitive firing properties of medial pontine reticular formation neurones of the rat recorded in vitro.. Journal of Physiology, 1989, 410, 533-560.	1.3	25
70	An essential role for MEF2C in the cortical response to loss of sleep in mice. ELife, 2020, 9, .	2.8	25
71	Stereoselectivity of l-baclofen in hippocampal slices of the rat. Neuroscience Letters, 1985, 55, 1-4.	1.0	22
72	Nicotinic depolarizations of rat medial pontine reticular formation neurons studied in vitro. Neuroscience, 1993, 57, 419-424.	1.1	21

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73	Loss of Arc attenuates the behavioral and molecular responses for sleep homeostasis in mice. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10547-10553.	3.3	19
74	Effect of Metabolic Alterations on the Accumulation of Technetium-99m-Labeled d,l-HMPAO in Slices of Rat Cerebral Cortex. Journal of Cerebral Blood Flow and Metabolism, 1994, 14, 324-331.	2.4	18
75	IL-11 Is Required for A1 Adenosine Receptorâ€"Mediated Protection against Ischemic AKI. Journal of the American Society of Nephrology: JASN, 2013, 24, 1558-1570.	3.0	18
76	The brain histamine system in vitro. Journal of Neuroscience Methods, 1989, 28, 71-75.	1.3	15
77	Negative regulation of cyclin-dependent kinase 5 targets by protein kinase C. European Journal of Pharmacology, 2008, 581, 270-275.	1.7	15
78	<scp>CA</scp>1â€specific deletion of <scp>NMDA</scp> receptors induces abnormal renewal of a learned fear response. Hippocampus, 2015, 25, 1374-1379.	0.9	15
79	Interaction between cocaine use and sleep behavior: A comprehensive review of cocaine's disrupting influence on sleep behavior and sleep disruptions influence on reward seeking. Pharmacology Biochemistry and Behavior, 2021, 206, 173194.	1.3	15
80	Sleeping Sickness Disrupts the Sleep-Regulating Adenosine System. Journal of Neuroscience, 2020, 40, 9306-9316.	1.7	14
81	Evaluation of neuronal phosphoproteins as effectors of caffeine and mediators of striatal adenosine A2A receptor signaling. Brain Research, 2007, 1129, 1-14.	1.1	13
82	Identification of the heart as the critical site of adenosine mediated embryo protection. BMC Developmental Biology, 2010, 10, 57.	2.1	13
83	Adenosine-mediated synaptic inhibition: Partial blockade by barium does not prevent anti-epileptiform activity. Synapse, 1992, 11, 191-196.	0.6	12
84	Adenosine: front and center in linking nutrition and metabolism to neuronal activity. Journal of Clinical Investigation, 2011, 121, 2548-2550.	3.9	12
85	EXCITATION OF BRAIN STEM NEURONS BY NORADRENALINE AND HISTAMINE. Journal of Basic and Clinical Physiology and Pharmacology, 1990, 1, 71-76.	0.7	11
86	Sleep Deprivation Enhances Cocaine Conditioned Place Preference in an Orexin Receptor-Modulated Manner. ENeuro, 2020, 7, ENEURO.0283-20.2020.	0.9	11
87	Norepinephrine transporter antagonism prevents dopamine-dependent synaptic plasticity in the mouse dorsal hippocampus. Neuroscience Letters, 2021, 740, 135450.	1.0	10
88	Long-term potentiation and 4-aminopyridine. Cellular and Molecular Neurobiology, 1985, 5, 297-301.	1.7	9
89	Role for neuronal nitric oxide synthase in sleep homeostasis and arousal. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19982-19983.	3.3	8
90	Sleep deprivation alters the time course but not magnitude of locomotor sensitization to cocaine. Scientific Reports, 2018, 8, 17672.	1.6	6

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91	Dose response of acute cocaine on sleep/waking behavior in mice. Neurobiology of Sleep and Circadian Rhythms, 2018, 5, 84-93.	1.4	6
92	Enhanced cortical responsiveness during natural sleep in freely behaving mice. Scientific Reports, 2020, 10, 2278.	1.6	6
93	Electrophysiological analysis of exogenous and endogenous adenosine actions in the rat and human hippocampus in vitro. Drug Development Research, 1993, 28, 386-389.	1.4	5
94	Zaprinast stimulates extracellular adenosine accumulation in rat pontine slices. Neuroscience Letters, 2004, 371, 12-17.	1.0	4
95	Hippocampus, V: Studying Hippocampal Behaviors. American Journal of Psychiatry, 2005, 162, 856-856.	4.0	2
96	Structure of cortical network activity across natural wake and sleep states in mice. PLoS ONE, 2020, 15, e0233561.	1.1	2
97	An Anxiolytic Response Exerted by Î²3-Adrenoreceptor Activation: Correlation with an Enhanced Subset of Gabaergic Synaptic Responses. Neuropsychopharmacology, 2010, 35, 1839-1840.	2.8	1
98	Arousal-Mediated Sleep Disturbance Persists During Cocaine Abstinence in Male Mice. Frontiers in Neuroscience, 0, 16, .	1.4	1
99	A Simple in vitro Method to Study the Trigeminal Ganglion. Stereotactic and Functional Neurosurgery, 1986, 49, 147-154.	0.8	0
100	State-dependent modulation of cognitive function. Behavioral and Brain Sciences, 2000, 23, 945-946.	0.4	0
101	A State Dependence of the Response to N-Methyl-D-Aspartate Receptor Antagonism. Biological Psychiatry, 2014, 76, 912-913.	0.7	0
102	Sleep, Adenosine, and Neurodegeneration. , 2017, , 111-130.		0
103	0152 SLEEP DEPRIVATION INCREASES COCAINE SEEKING. Sleep, 2017, 40, A57-A57.	0.6	0
104	Defining the Role of Interneuron N-Methyl-D-Aspartate Receptors in Prefrontal Cortex Inhibition. Biological Psychiatry, 2018, 84, 399-400.	0.7	0
105	Slow wave sleep and sleep need resolution. IBRO Reports, 2019, 6, S143.	0.3	0
106	0159 Conditional Knockout Of Adenosine A1 Receptors Occludes Sleep Deprivation-induced Enhancement Of Conditioned Place Preference.. Sleep, 2019, 42, A65-A66.	0.6	0