Barbara E Jones

List of Publications by Year
in descending order

87	13,278	28242 55	60583 81
papers	citations	h-index	g-index

88	88	88	6347
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The efferent projections from the reticular formation and the locus coeruleus studied by anterograde and retrograde axonal transport in the rat. Journal of Comparative Neurology, 1985, 242, 56-92.	0.9	914
2	Ascending projections of the locus coeruleus in the rat. II. Autoradiographic study. Brain Research, 1977, 127, 23-53.	1.1	818
3	Discharge of Identified Orexin/Hypocretin Neurons across the Sleep-Waking Cycle. Journal of Neuroscience, 2005, 25, 6716-6720.	1.7	778
4	From waking to sleeping: neuronal and chemical substrates. Trends in Pharmacological Sciences, 2005, 26, 578-586.	4.0	518
5	Arousal systems. Frontiers in Bioscience - Landmark, 2003, 8, s438-451.	3.0	486
6	Neurotoxic lesions of the dorsolateral pontomesencephalic tegmentum-cholinergic cell area in the cat. II. Effects upon sleep-waking states. Brain Research, 1988, 458, 285-302.	1.1	428
7	Cholinergic Basal Forebrain Neurons Burst with Theta during Waking and Paradoxical Sleep. Journal of Neuroscience, 2005, 25, 4365-4369.	1.7	417
8	Melanin-concentrating hormone neurons discharge in a reciprocal manner to orexin neurons across the sleepâ€“wake cycle. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2418-2422.	3.3	394
9	Codistribution of GABA- with acetylcholine-synthesizing neurons in the basal forebrain of the rat. Journal of Comparative Neurology, 1993, 329, 438-457.	0.9	363
10	GABAergic neurons in the rat pontomesencephalic tegmentum: Codistribution with cholinergic and other tegmental neurons projecting to the posterior lateral hypothalamus. Journal of Comparative Neurology, 1995, 363, 177-196.	0.9	315
11	Effects of locus coeruleus lesions upon cerebral monoamine content, sleep-wakefulness states and the response to amphetamine in the cat. Brain Research, 1977, 124, 473-496.	1.1	312
12	GABAergic and other noncholinergic basal forebrain neurons, together with cholinergic neurons, project to the mesocortex and isocortex in the rat. Journal of Comparative Neurology, 1997, 383, 163-177.	0.9	296
13	Atlas of catecholamine perikarya, varicosities and pathways in the brainstem of the cat. Journal of Comparative Neurology, 1983, 215, 382-396.	0.9	290
14	Distribution of acetylcholine and catecholamine neurons in the cat brainstem: A choline acetyltransferase and tyrosine hydroxylase immunohistochemical study. Journal of Comparative Neurology, 1987, 261, 15-32.	0.9	275
15	Differential c-Fos Expression in Cholinergic, Monoaminergic, and GABAergic Cell Groups of the Pontomesencephalic Tegmentum after Paradoxical Sleep Deprivation and Recovery. Journal of Neuroscience, 1999, 19, 3057-3072.	1.7	259
16	Differential Modulation of High-Frequency Î³-Electroencephalogram Activity and Sleepâ€“Wake State by Noradrenaline and Serotonin Microinjections into the Region of Cholinergic Basalis Neurons. Journal of Neuroscience, 1998, 18, 2653-2666.	1.7	258
17	The effect of lesions of catecholamine-containing neurons upon monoamine content of the brain and EEG and behavioral waking in the cat. Brain Research, 1973, 58, 157-177.	1.1	252
18	Activity, modulation and role of basal forebrain cholinergic neurons innervating the cerebral cortex. Progress in Brain Research, 2004, 145, 157-169.	0.9	251

#	Article	IF	Citations
19	Discharge Profiles across the Sleepâ€“Waking Cycle of Identified Cholinergic, GABAergic, and Glutamatergic Neurons in the Pontomesencephalic Tegmentum of the Rat. Journal of Neuroscience, 2014, 34, 4708-4727.	1.7	244
20	Projections from basal forebrain to prefrontal cortex comprise cholinergic, GABAergic and glutamatergic inputs to pyramidal cells or interneurons. European Journal of Neuroscience, 2008, 27, 654-670.	1.2	243
21	Chapter 5: The organization of central cholinergic systems and their functional importance in sleep-waking states. Progress in Brain Research, 1993, 98, 61-71.	0.9	199
22	Stereological estimates of the basal forebrain cell population in the rat, including neurons containing choline acetyltransferase, glutamic acid decarboxylase or phosphate-activated glutaminase and colocalizing vesicular glutamate transporters. Neuroscience, 2006, 143, 1051-1064.	1.1	187
23	Orexin and MCH neurons express c-Fos differently after sleep deprivation vs. recovery and bear different adrenergic receptors. European Journal of Neuroscience, 2005, 21, 2807-2816.	1.2	185
24	Discharge Profiles of Identified GABAergic in Comparison to Cholinergic and Putative Glutamatergic Basal Forebrain Neurons across the Sleepâ€“Wake Cycle. Journal of Neuroscience, 2009, 29, 11828-11840.	1.7	181
25	Immunohistochemical study of choline acetyltransferase-immunoreactive processes and cells innervating the pontomedullary reticular formation in the rat. Journal of Comparative Neurology, 1990, 295, 485-514.	0.9	176
26	Parvalbumin, calbindin, or calretinin in cortically projecting and GABAergic, cholinergic, or glutamatergic basal forebrain neurons of the rat. Journal of Comparative Neurology, 2003, 458, 11-31.	0.9	172
27	Projections of GABAergic and cholinergic basal forebrain and GABAergic preoptic-anterior hypothalamic neurons to the posterior lateral hypothalamus of the rat. Journal of Comparative Neurology, 1994, 339, 251-268.	0.9	168
28	Discharge Properties of Juxtacellularly Labeled and Immunohistochemically Identified Cholinergic Basal Forebrain Neurons Recorded in Association with the Electroencephalogram in Anesthetized Rats. Journal of Neuroscience, 2000, 20, 1505-1518.	1.7	162
29	Evidence for glutamate, in addition to acetylcholine and GABA, neurotransmitter synthesis in basal forebrain neurons projecting to the entorhinal cortex. Neuroscience, 2001, 107, 249-263.	1.1	157
30	The Wake-Promoting Hypocretinâ€“Orexin Neurons Are in an Intrinsic State of Membrane Depolarization. Journal of Neuroscience, 2003, 23, 1557-1562.	1.7	156
31	Selective Action of Orexin (Hypocretin) on Nonspecific Thalamocortical Projection Neurons. Journal of Neuroscience, 2002, 22, 7835-7839.	1.7	144
32	Modulation of Cortical Activation and Behavioral Arousal by Cholinergic and Orexinergic Systems. Annals of the New York Academy of Sciences, 2008, 1129, 26-34.	1.8	143
33	Discharge Profiles of Juxtacellularly Labeled and Immunohistochemically Identified GABAergic Basal Forebrain Neurons Recorded in Association with the Electroencephalogram in Anesthetized Rats. Journal of Neuroscience, 2000, 20, 9252-9263.	1.7	142
34	Exclusive Postsynaptic Action of Hypocretin-Orexin on Sublayer 6b Cortical Neurons. Journal of Neuroscience, 2004, 24, 6760-6764.	1.7	142
35	Arousal and sleep circuits. Neuropsychopharmacology, 2020, 45, 6-20.	2.8	131
36	GABAergic neurons intermingled with orexin and MCH neurons in the lateral hypothalamus discharge maximally during sleep. European Journal of Neuroscience, 2010, 32, 448-457.	1.2	127

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37	Neurotensin-Induced Bursting of Cholinergic Basal Forebrain Neurons Promotes Î³ and Î¸ Cortical Activity Together with Waking and Paradoxical Sleep. Journal of Neuroscience, 2000, 20, 8452-8461.	1.7	124
38	Rhythmically Discharging Basal Forebrain Units Comprise Cholinergic, GABAergic, and Putative Glutamatergic Cells. Journal of Neurophysiology, 2003, 89, 1057-1066.	0.9	123
39	Effects of glutamate agonist versus procaine microinjections into the basal forebrain cholinergic cell area upon gamma and theta EEG activity and sleep-wake state. European Journal of Neuroscience, 2000, 12, 2166-2184.	1.2	122
40	Nicotinic Enhancement of the Noradrenergic Inhibition of Sleep-Promoting Neurons in the Ventrolateral Preoptic Area. Journal of Neuroscience, 2004, 24, 63-67.	1.7	120
41	Basic Mechanisms of Sleep-Wake States. , 2005, , 136-153.		118
42	GABA-synthesizing neurons in the medulla: Their relationship to serotonin-containing and spinally projecting neurons in the rat. Journal of Comparative Neurology, 1991, 313, 349-367.	0.9	116
43	Sleep-Wake Related Discharge Properties of Basal Forebrain Neurons Recorded With Micropipettes in Head-Fixed Rats. Journal of Neurophysiology, 2004, 92, 1182-1198.	0.9	115
44	c-Fos Expression in GABAergic, Serotonergic, and Other Neurons of the Pontomedullary Reticular Formation and Raphe after Paradoxical Sleep Deprivation and Recovery. Journal of Neuroscience, 2000, 20, 4669-4679.	1.7	113
45	Opposite effects of noradrenaline and acetylcholine upon hypocretin/orexin versus melanin concentrating hormone neurons in rat hypothalamic slices. Neuroscience, 2005, 130, 807-811.	1.1	112
46	c-Fos expression in dopaminergic and GABAergic neurons of the ventral mesencephalic tegmentum after paradoxical sleep deprivation and recovery. European Journal of Neuroscience, 2002, 15, 774-778.	1.2	108
47	Activity Profiles of Cholinergic and Intermingled GABAergic and Putative Glutamatergic Neurons in the Pontomesencephalic Tegmentum of Urethane-Anesthetized Rats. Journal of Neuroscience, 2009, 29, 4664-4674.	1.7	104
48	Innervation of orexin/hypocretin neurons by GABAergic, glutamatergic or cholinergic basal forebrain terminals evidenced by immunostaining for presynaptic vesicular transporter and postsynaptic scaffolding proteins. Journal of Comparative Neurology, 2006, 499, 645-661.	0.9	102
49	Modification of Paradoxical Sleep Following Transections of the Reticular Formation at the Pontomedullary Junction. Sleep, 1986, 9, 1-23.	0.6	96
50	Gabaergic neurons with Î±2-adrenergic receptors in basal forebrain and preoptic area express c-Fos during sleep. Neuroscience, 2004, 129, 803-810.	1.1	96
51	Differential Oscillatory Properties of Cholinergic and Non-cholinergic Nucleus Basalis Neurons in Guinea Pig Brain Slice. European Journal of Neuroscience, 1996, 8, 169-182.	1.2	87
52	Paradoxical REM sleep promoting and permitting neuronal networks. Archives Italiennes De Biologie, 2004, 142, 379-96.	0.1	78
53	Alpha 2 adrenergic receptors on GABAergic, putative sleep-promoting basal forebrain neurons. European Journal of Neuroscience, 2003, 18, 723-727.	1.2	72
54	Immunohistochemical evidence for synaptic release of glutamate from orexin terminals in the locus coeruleus. Neuroscience, 2010, 169, 1150-1157.	1.1	72

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55	Computer graphics analysis of sleep-wakefulness state changes after pontine lesions. Brain Research Bulletin, 1984, 13, 53-68.	1.4	71
56	Muscarinicâ€2 and orexinâ€2 receptors on GABAergic and other neurons in the rat mesopontine tegmentum and their potential role in sleepâ€“wake state control. Journal of Comparative Neurology, 2008, 510, 607-630.	0.9	56
57	Vesicular glutamate (VGlut), GABA (VGAT), and acetylcholine (VAChT) transporters in basal forebrain axon terminals innervating the lateral hypothalamus. Journal of Comparative Neurology, 2006, 496, 453-467.	0.9	53
58	Neurobiology of waking and sleeping. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2011, 98, 131-149.	1.0	53
59	Immunohistochemical evidence for synaptic release of GABA from melanin-concentrating hormone containing varicosities in the locus coeruleus. Neuroscience, 2012, 223, 269-276.	1.1	48
60	Principal cell types of sleepâ€“wake regulatory circuits. Current Opinion in Neurobiology, 2017, 44, 101-109.	2.0	45
61	Glia, Adenosine, and Sleep. Neuron, 2009, 61, 156-157.	3.8	41
62	Orexin Neurons Respond Differentially to Auditory Cues Associated with Appetitive versus Aversive Outcomes. Journal of Neuroscience, 2016, 36, 1747-1757.	1.7	38
63	The Role of Hcrt/Orx and MCH Neurons in Sleep-Wake State Regulation. Sleep, 2013, 36, 1769-1772.	0.6	37
64	Pharmacological characterization and differentiation of non-cholinergic nucleus basalis neurons in vitro. NeuroReport, 1998, 9, 61-65.	0.6	36
65	Discharge and Role of Acetylcholine Pontomesencephalic Neurons in Cortical Activity and Sleep-Wake States Examined by Optogenetics and Juxtacellular Recording in Mice. ENeuro, 2018, 5, ENEURO.0270-18.2018.	0.9	35
66	Dynamic changes in GABAA receptors on basal forebrain cholinergic neurons following sleep deprivation and recovery. BMC Neuroscience, 2007, 8, 15.	0.8	32
67	Homeostatic Changes in GABA and Glutamate Receptors on Excitatory Cortical Neurons during Sleep Deprivation and Recovery. Frontiers in Systems Neuroscience, 2017, 11, 17.	1.2	28
68	Rat Hypocretin/Orexin Neurons Are Maintained in a Depolarized State by TRPC Channels. PLoS ONE, 2010, 5, e15673.	1.1	25
69	Sleep-Deprivation Regulates Î±-2 Adrenergic Responses of Rat Hypocretin/Orexin Neurons. PLoS ONE, 2011, 6, e16672.	1.1	24
70	GABA Receptors on Orexin and Melanin-Concentrating Hormone Neurons Are Differentially Homeostatically Regulated Following Sleep Deprivation. ENeuro, 2016, 3, ENEURO.0077-16.2016.	0.9	22
71	Homeostatic regulation through GABA and acetylcholine muscarinic receptors of motor trigeminal neurons following sleep deprivation. Brain Structure and Function, 2017, 222, 3163-3178.	1.2	11
72	Toward an understanding of the basic mechanisms of the sleep-waking cycle. Behavioral and Brain Sciences, 1978, 1, 495-495.	0.4	9

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73	GABAergic and other noncholinergic basal forebrain neurons, together with cholinergic neurons, project to the mesocortex and isocortex in the rat. Journal of Comparative Neurology, 1997, 383, 163-177.	0.9	9
74	The mysteries of sleep and waking unveiled by Michel Jouvet. Sleep Medicine, 2018, 49, 14-19.	0.8	7
75	Homeostatic Changes in GABA and Acetylcholine Muscarinic Receptors on GABAergic Neurons in the Mesencephalic Reticular Formation following Sleep Deprivation. ENeuro, 2017, 4, ENEURO.0269-17.2017.	0.9	7
76	Neuroscience: What Are Cortical Neurons Doing during Sleep?. Current Biology, 2016, 26, R1147-R1150.	1.8	6
77	Discharge and Role of GABA Pontomesencephalic Neurons in Cortical Activity and Sleep-Wake States Examined by Optogenetics and Juxtacellular Recordings in Mice. Journal of Neuroscience, 2020, 40, 5970-5989.	1.7	6
78	The interpretation of physiology. Behavioral and Brain Sciences, 2000, 23, 955-956.	0.4	5
79	Somatostatin varicosities contain the vesicular GABA transporter and contact orexin neurons in the hypothalamus. European Journal of Neuroscience, 2012, 36, 3388-3395.	1.2	5
80	Understanding the physiological correlates of a behavioral state as a constellation of events. Behavioral and Brain Sciences, 1981, 4, 482-483.	0.4	2
81	The need for a new model of sleep cycle generation. Behavioral and Brain Sciences, 1986, 9, 409-411.	0.4	2
82	In memoriam Michel Jouvet 1925â€“2017. Sleep Medicine, 2018, 41, 116-117.	0.8	1
83	GABAergic and other noncholinergic basal forebrain neurons, together with cholinergic neurons, project to the mesocortex and isocortex in the rat. , 1997, 383, 163.		1
84	Is the basalo-cortical system simply an extra-thalamic relay of the ascending reticular activating system? A discourse with Mircea Steriade. Thalamus & Related Systems, 2005, 3, 275.	0.5	0
85	Electrophysiology of sleepâ€“wake systems. , 2021, , .		0
86	Chemical neuroanatomy of sleepâ€“wake systems. , 2021, , .		0
87	Control of Sleep-Wake States: Acetylcholine â˜†. , 2017, , .		0