

Michael Numan

List of Publications by Year in descending order

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59
papers

5,906
citations

76326

40
h-index

161849

54
g-index

59
all docs

59
docs citations

59
times ranked

2236
citing authors

#	ARTICLE	IF	CITATIONS
1	Medial preoptic area and onset of maternal behavior in the rat.. Journal of Comparative and Physiological Psychology, 1977, 91, 146-164.	1.8	360
2	Medial preoptic area and maternal behavior in the female rat.. Journal of Comparative and Physiological Psychology, 1974, 87, 746-759.	1.8	325
3	Motivational systems and the neural circuitry of maternal behavior in the rat. Developmental Psychobiology, 2007, 49, 12-21.	1.6	321
4	Medial preoptic area interactions with dopamine neural systems in the control of the onset and maintenance of maternal behavior in rats. Frontiers in Neuroendocrinology, 2009, 30, 46-64.	5.2	294
5	Neural mechanisms of motherâ€™infant bonding and pair bonding: Similarities, differences, and broader implications. Hormones and Behavior, 2016, 77, 98-112.	2.1	253
6	Neuroanatomical Circuitry for Mammalian Maternal Behavior. Annals of the New York Academy of Sciences, 1997, 807, 101-125.	3.8	250
7	Hormonal induction of maternal behavior in the ovariectomized nulliparous rat. Physiology and Behavior, 1970, 5, 1373-1377.	2.1	243
8	Functional Magnetic Resonance Imaging Shows Oxytocin Activates Brain Regions Associated with Mother-Pup Bonding during Suckling. Journal of Neuroscience, 2005, 25, 11637-11644.	3.6	207
9	Hypothalamic Neural Circuits Regulating Maternal Responsiveness Toward Infants. Behavioral and Cognitive Neuroscience Reviews, 2006, 5, 163-190.	3.9	198
10	Maternal behavior in rats: Evidence for the involvement of preoptic projections to the ventral tegmental area.. Behavioral Neuroscience, 1984, 98, 712-727.	1.2	180
11	The effects of D1 or D2 dopamine receptor antagonism in the medial preoptic area, ventral pallidum, or nucleus accumbens on the maternal retrieval response and other aspects of maternal behavior in rats.. Behavioral Neuroscience, 2005, 119, 1588-1604.	1.2	153
12	Axon-sparing lesions of the preoptic region and substantia innominata disrupt maternal behavior in rats.. Behavioral Neuroscience, 1988, 102, 381-396.	1.2	152
13	Functional, anatomical, and neurochemical differentiation of medial preoptic area subregions in relation to maternal behavior in the mouse. Journal of Comparative Neurology, 2013, 521, 1633-1663.	1.6	147
14	Projection Sites of Medial Preoptic Area and Ventral Bed Nucleus of the Stria Terminalis Neurons that Express Fos during Maternal Behavior in Female Rats. Journal of Neuroendocrinology, 1997, 9, 369-384.	2.6	140
15	A lesion and neuroanatomical tract-tracing analysis of the role of the bed nucleus of the stria terminalis in retrieval behavior and other aspects of maternal responsiveness in rats. , 1996, 29, 23-51.		134
16	Expression of Fos-like immunoreactivity in the preoptic area of maternally behaving virgin and postpartum rats.. Behavioral Neuroscience, 1994, 108, 379-394.	1.2	133
17	Using c-Fos immunocytochemistry to identify forebrain regions that may inhibit maternal behavior in rats.. Behavioral Neuroscience, 2000, 114, 337-352.	1.2	128
18	A functional neuroanatomical investigation of the role of the medial preoptic area in neural circuits regulating maternal behavior. Behavioural Brain Research, 2002, 131, 17-36.	2.2	125

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19	Maternity: Neural mechanisms, motivational processes, and physiological adaptations.. Behavioral Neuroscience, 2010, 124, 715-741.	1.2	122
20	Importance of pup-related sensory inputs and maternal performance for the expression of Fos-like immunoreactivity in the preoptic area and ventral bed nucleus of the stria terminalis of postpartum rats.. Behavioral Neuroscience, 1995, 109, 135-149.	1.2	113
21	Excitotoxic Amino Acid Injections into the Medial Amygdala Facilitate Maternal Behavior in Virgin Female Rats. Hormones and Behavior, 1993, 27, 56-81.	2.1	111
22	Medial preoptic area interactions with the nucleus accumbensâ€“ventral pallidum circuit and maternal behavior in rats. Behavioural Brain Research, 2005, 158, 53-68.	2.2	108
23	Hypothalamic interaction with the mesolimbic DA system in the control of the maternal and sexual behaviors in rats. Neuroscience and Biobehavioral Reviews, 2011, 35, 826-847.	6.1	103
24	The effects of paraventricular hypothalamic lesions on maternal behavior in rats. Physiology and Behavior, 1985, 35, 417-425.	2.1	99
25	Neuromolecular basis of parental behavior in laboratory mice and rats: With special emphasis on technical issues of using mouse genetics. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2011, 35, 1205-1231.	4.8	98
26	Expression of intracellular progesterone receptors in rat brain during different reproductive states, and involvement in maternal behavior. Brain Research, 1999, 830, 358-371.	2.2	88
27	Dopamine Dâ„receptor stimulation of the nucleus accumbens or the medial preoptic area promotes the onset of maternal behavior in pregnancy-terminated rats.. Behavioral Neuroscience, 2007, 121, 907-919.	1.2	87
28	Flexibility and adaptation of the neural substrate that supports maternal behavior in mammals. Neuroscience and Biobehavioral Reviews, 2013, 37, 1875-1892.	6.1	80
29	Expression of c-fos, fos B, and egr-1 in the medial preoptic area and bed nucleus of the stria terminalis during maternal behavior in rats. Brain Research, 1998, 792, 348-352.	2.2	79
30	A lesion and neuroanatomical tractâ€“tracing analysis of the role of the bed nucleus of the stria terminalis in retrieval behavior and other aspects of maternal responsiveness in rats. Developmental Psychobiology, 1996, 29, 23-51.	1.6	79
31	New theoretical and experimental approaches on maternal motivation in mammals. Neuroscience and Biobehavioral Reviews, 2013, 37, 1860-1874.	6.1	73
32	Anatomical identification of neurons in selected brain regions associated with maternal behavior deficits induced by knife cuts of the lateral hypothalamus in rats. Journal of Comparative Neurology, 1985, 237, 552-564.	1.6	65
33	Dorsolateral connections of the medial preoptic area and maternal behavior in rats.. Behavioral Neuroscience, 1990, 104, 964-979.	1.2	62
34	The temporal course of expression of c-Fos and Fos B within the medial preoptic area and other brain regions of postpartum female rats during prolonged motherâ€“young interactions.. Behavioral Neuroscience, 2000, 114, 609-622.	1.2	62
35	Estrogen, Progesterone, and Pregnancy Termination Alter Neural Activity in Brain Regions That Control Maternal Behavior in Rats. Neuroendocrinology, 2002, 75, 12-23.	2.5	62
36	Temporary inactivation of ventral tegmental area neurons with either muscimol or baclofen reversibly disrupts maternal behavior in rats through different underlying mechanisms.. Behavioral Neuroscience, 2009, 123, 740-751.	1.2	56

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37	The importance of the basolateral/basomedial amygdala for goal-directed maternal responses in postpartum rats. <i>Behavioural Brain Research</i> , 2010, 214, 368-376.	2.2	56
38	Oxytocin and Parental Behaviors. <i>Current Topics in Behavioral Neurosciences</i> , 2017, 35, 119-153.	1.7	52
39	Progesterone inhibition of maternal behavior in the rat. <i>Hormones and Behavior</i> , 1978, 11, 209-231.	2.1	49
40	Preoptic area and substantia nigra interact in the control of maternal behavior in the rat.. <i>Behavioral Neuroscience</i> , 1983, 97, 120-139.	1.2	48
41	Minireview: Estrogen Receptor-Initiated Mechanisms Causal to Mammalian Reproductive Behaviors. <i>Endocrinology</i> , 2011, 152, 1209-1217.	2.8	48
42	Does oxytocin modulate variation in maternal caregiving in healthy new mothers?. <i>Brain Research</i> , 2014, 1580, 143-150.	2.2	41
43	Preoptic-brainstem connections and maternal behavior in rats.. <i>Behavioral Neuroscience</i> , 1991, 105, 1013-1029.	1.2	39
44	Maternal Behavior: Neural Circuits, Stimulus Valence, and Motivational Processes. <i>Parenting</i> , 2012, 12, 105-114.	1.4	38
45	Nursing stimulation is more than tactile sensation: It is a multisensory experience. <i>Hormones and Behavior</i> , 2008, 54, 330-339.	2.1	34
46	Dopamine D1 receptor activation of adenylyl cyclase, not phospholipase C, in the nucleus accumbens promotes maternal behavior onset in rats. <i>Hormones and Behavior</i> , 2010, 57, 96-104.	2.1	34
47	The Role of the Medial Preoptic Area in the Regulation of Maternal Behavior in the Rat. <i>Annals of the New York Academy of Sciences</i> , 1986, 474, 226-233.	3.8	32
48	Long-term effects of preoptic area knife cuts on the maternal behavior of postpartum rats. <i>Behavioral and Neural Biology</i> , 1990, 53, 284-290.	2.2	29
49	The medial preoptic area and the regulation of parental behavior. <i>Neuroscience Bulletin</i> , 2014, 30, 863-865.	2.9	23
50	Microinjection of the Tachykinin Neuropeptide K into the Ventromedial Hypothalamus Disrupts the Hormonal Onset of Maternal Behavior in Female Rats. <i>Journal of Neuroendocrinology</i> , 2003, 9, 677-687.	2.6	21
51	Brain Mechanisms and Parental Behavior. <i>Handbook of Behavioral Neurobiology</i> , 1985, , 537-605.	0.3	18
52	Adrenal inhibition of maternal behavior in virgin female rats. <i>Hormones and Behavior</i> , 1975, 6, 165-171.	2.1	15
53	A single injection of 17 β -estradiol at the time of pup presentation promotes the onset of maternal behavior in pregnancy-terminated rats. <i>Hormones and Behavior</i> , 2009, 56, 121-127.	2.1	12
54	The Septal Region and Social Behavior. , 2000, , 175-209.		11

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55	Maternal Behaviors: Central Integration or Independent Parallel Circuits? Theoretical Comment on Popeski and Woodside (2004).. Behavioral Neuroscience, 2004, 118, 1469-1472.	1.2	7
56	Hypothalamic Interaction with the Mesolimbic Dopamine System and the Regulation of Maternal Responsiveness. , 2008, , 1-22.		5
57	Father of mothering: Jay S. Rosenblatt. Hormones and Behavior, 2009, 55, 484-487.	2.1	4
58	Maternal Bonding. , 2021, , 4913-4917.		0
59	Maternal Bonding. , 2018, , 1-5.		0