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List of Publications by Year in descending order

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78
papers

2,985
citations

126708

33
h-index

182168

51
g-index

78
all docs

78
docs citations

78
times ranked

2470
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of opioid efficacy, tolerance, addiction and dependence from cell culture to human. <i>British Journal of Pharmacology</i> , 2011, 164, 1322-1334.	2.7	197
2	GABAergic modulation of the analgesic effects of morphine microinjected in the ventral periaqueductal gray matter of the rat. <i>Brain Research</i> , 1987, 436, 223-228.	1.1	153
3	Stimulation of the periaqueductal gray matter inhibits nociception at the supraspinal as well as spinal level. <i>Brain Research</i> , 1989, 502, 61-66.	1.1	118
4	Pros and Cons of Clinically Relevant Methods to Assess Pain in Rodents. <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 100, 335-343.	2.9	118
5	Periaqueductal gray neurons project to spinally projecting GABAergic neurons in the rostral ventromedial medulla. <i>Pain</i> , 2008, 140, 376-386.	2.0	116
6	Antinociception mediated by the periaqueductal gray is attenuated by orphanin FQ. <i>NeuroReport</i> , 1997, 8, 3431-3434.	0.6	105
7	Microinjection of morphine into the rostral ventromedial medulla produces greater antinociception in male compared to female rats. <i>Brain Research</i> , 1998, 796, 315-318.	1.1	104
8	Chronic nicotine and withdrawal effects on body weight and food and water consumption in female rats. <i>Physiology and Behavior</i> , 1987, 39, 441-444.	1.0	102
9	Contribution of dopamine receptors to periaqueductal gray-mediated antinociception. <i>Psychopharmacology</i> , 2009, 204, 531-540.	1.5	79
10	The Influence of Non-Nociceptive Factors on Hot-Plate Latency in Rats. <i>Journal of Pain</i> , 2011, 12, 222-227.	0.7	75
11	Periaqueductal gray stimulation produces a spinally mediated, opioid antinociception for the inflamed hindpaw of the rat. <i>Brain Research</i> , 1991, 545, 17-23.	1.1	72
12	Morphine Antinociceptive Potency on Chemical, Mechanical, and Thermal Nociceptive Tests in the Rat. <i>Journal of Pain</i> , 2006, 7, 358-366.	0.7	69
13	Home cage wheel running is an objective and clinically relevant method to assess inflammatory pain in male and female rats. <i>Journal of Neuroscience Methods</i> , 2016, 263, 115-122.	1.3	67
14	PAG mu opioid receptor activation underlies sex differences in morphine antinociception. <i>Behavioural Brain Research</i> , 2007, 177, 126-133.	1.2	64
15	Antinociceptive tolerance revealed by cumulative intracranial microinjections of morphine into the periaqueductal gray in the rat. <i>Pharmacology Biochemistry and Behavior</i> , 2006, 85, 214-219.	1.3	62
16	Tolerance to the antinociceptive effect of morphine microinjections into the ventral but not lateral/dorsal periaqueductal gray of the rat. <i>Behavioral Neuroscience</i> , 1999, 113, 833-839.	0.6	58
17	Sexually dimorphic activation of the periaqueductal gray-rostral ventromedial medullary circuit during the development of tolerance to morphine in the rat. <i>European Journal of Neuroscience</i> , 2008, 27, 1517-1524.	1.2	55
18	Tolerance to repeated microinjection of morphine into the periaqueductal gray is associated with changes in the behavior of off- and on-cells in the rostral ventromedial medulla of rats. <i>Pain</i> , 2001, 89, 237-244.	2.0	50

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19	Tolerance to the Antinociceptive Effect of Morphine in the Absence of Short-Term Presynaptic Desensitization in Rat Periaqueductal Gray Neurons. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010, 335, 674-680.	1.3	49
20	Repeated cannabinoid injections into the rat periaqueductal gray enhance subsequent morphine antinociception. <i>Neuropharmacology</i> , 2008, 55, 1219-1225.	2.0	44
21	Site specificity in the development of tolerance to stimulation-produced analgesia from the periaqueductal gray matter of the rat. <i>Brain Research</i> , 1987, 425, 356-359.	1.1	43
22	Immobility accompanies the antinociception mediated by the rostral ventromedial medulla of the rat. <i>Brain Research</i> , 2000, 872, 276-281.	1.1	43
23	Extracellular Signal-Regulated Kinase 1/2 Activation Counteracts Morphine Tolerance in the Periaqueductal Gray of the Rat. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 331, 412-418.	1.3	43
24	Barbiturate-induced inhibition of a spinal nociceptive reflex: role of GABA mechanisms and descending modulation. <i>Brain Research</i> , 1987, 407, 307-311.	1.1	42
25	Drug dependent sex-differences in periaqueductal gray mediated antinociception in the rat. <i>Pain</i> , 2009, 147, 210-216.	2.0	42
26	Tolerance to Repeated Morphine Administration Is Associated with Increased Potency of Opioid Agonists. <i>Neuropsychopharmacology</i> , 2008, 33, 2494-2504.	2.8	40
27	The periaqueductal gray contributes to bidirectional enhancement of antinociception between morphine and cannabinoids. <i>Pharmacology Biochemistry and Behavior</i> , 2013, 103, 444-449.	1.3	40
28	Contribution of Adenylyl Cyclase Modulation of Pre- and Postsynaptic GABA Neurotransmission to Morphine Antinociception and Tolerance. <i>Neuropsychopharmacology</i> , 2014, 39, 2142-2152.	2.8	39
29	Characterization of stimulation-produced analgesia from the nucleus tractus solitarius in the rat. <i>Brain Research</i> , 1989, 486, 175-180.	1.1	36
30	Depression of home cage wheel running: a reliable and clinically relevant method to assess migraine pain in rats. <i>Journal of Headache and Pain</i> , 2017, 18, 5.	2.5	36
31	Diazepam dissociates the analgesic and aversive effects of periaqueductal gray stimulation in the rat. <i>Brain Research</i> , 1987, 423, 395-398.	1.1	35
32	Defensive behaviors evoked from the ventrolateral periaqueductal gray of the rat: Comparison of opioid and GABA disinhibition. <i>Behavioural Brain Research</i> , 2005, 164, 61-66.	1.2	35
33	Differential susceptibility of the PAG and RVM to tolerance to the antinociceptive effect of morphine in the rat. <i>Pain</i> , 2005, 113, 91-98.	2.0	35
34	Behavioral and Electrophysiological Evidence for Opioid Tolerance in Adolescent Rats. <i>Neuropsychopharmacology</i> , 2007, 32, 600-606.	2.8	35
35	Anti-migraine effect of Δ^9 -tetrahydrocannabinol in the female rat. <i>European Journal of Pharmacology</i> , 2018, 818, 271-277.	1.7	34
36	Columnar distribution of catecholaminergic neurons in the ventrolateral periaqueductal gray and their relationship to efferent pathways. <i>Synapse</i> , 2013, 67, 94-108.	0.6	32

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37	Analysis of inflammation-induced depression of home cage wheel running in rats reveals the difference between opioid antinociception and restoration of function. <i>Behavioural Brain Research</i> , 2017, 317, 502-507.	1.2	32
38	Stimulation of the periaqueductal gray matter of the rat produces a preferential ipsilateral antinociception. <i>Brain Research</i> , 1991, 567, 140-144.	1.1	28
39	Microinjection of the vehicle dimethyl sulfoxide (DMSO) into the periaqueductal gray modulates morphine antinociception. <i>Brain Research</i> , 2008, 1204, 53-58.	1.1	26
40	Glutamate modulation of antinociception, but not tolerance, produced by morphine microinjection into the periaqueductal gray of the rat. <i>Brain Research</i> , 2009, 1295, 59-66.	1.1	26
41	Differential Development of Antinociceptive Tolerance to Morphine and Fentanyl Is Not Linked to Efficacy in the Ventrolateral Periaqueductal Gray of the Rat. <i>Journal of Pain</i> , 2012, 13, 799-807.	0.7	26
42	Reinventing the wheel™ to advance the development of pain therapeutics. <i>Behavioural Pharmacology</i> , 2021, 32, 142-152.	0.8	26
43	Different effects of chronic nicotine treatment regimens on body weight and tolerance in the rat. <i>Psychopharmacology</i> , 1987, 91, 236-8.	1.5	24
44	Direct Comparison of Heat-Evoked Activity of Nociceptive Neurons in the Dorsal Horn With the Hindpaw Withdrawal Reflex in the Rat. <i>Journal of Neurophysiology</i> , 1998, 79, 174-180.	0.9	23
45	Characterization of the analgesic effects of the benzodiazepine antagonist, Ro 15-1788. <i>Brain Research</i> , 1987, 415, 367-370.	1.1	22
46	Analgesic tolerance to microinjection of the μ -opioid agonist DAMGO into the ventrolateral periaqueductal gray. <i>Neuropharmacology</i> , 2007, 52, 1580-1585.	2.0	22
47	Acute hyperalgesia and delayed dry eye after corneal abrasion injury. <i>Pain Reports</i> , 2018, 3, e664.	1.4	22
48	Activity of nociceptive modulatory neurons in the rostral ventromedial medulla associated with volume expansion-induced antinociception. <i>Pain</i> , 1993, 52, 1-9.	2.0	21
49	Opioid Selective Antinociception Following Microinjection Into the Periaqueductal Gray of the Rat. <i>Journal of Pain</i> , 2014, 15, 1102-1109.	0.7	20
50	Depression of home cage wheel running is an objective measure of spontaneous morphine withdrawal in rats with and without persistent pain. <i>Pharmacology Biochemistry and Behavior</i> , 2017, 156, 10-15.	1.3	20
51	Antinociceptive tolerance to morphine from repeated nociceptive testing in the rat. <i>Brain Research</i> , 2005, 1047, 65-71.	1.1	19
52	Intermittent dosing prolongs tolerance to the antinociceptive effect of morphine microinjection into the periaqueductal gray. <i>Brain Research</i> , 2005, 1059, 173-178.	1.1	19
53	Differences in Antinociception Evoked from Dorsal and Ventral Regions of the Caudal Periaqueductal Gray Matter. , 1991, , 139-150.		19
54	Relative contribution of the dorsal raphe nucleus and ventrolateral periaqueductal gray to morphine antinociception and tolerance in the rat. <i>European Journal of Neuroscience</i> , 2016, 44, 2667-2672.	1.2	16

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55	Ligand-biased activation of extracellular signal-regulated kinase 1/2 leads to differences in opioid induced antinociception and tolerance. <i>Behavioural Brain Research</i> , 2016, 298, 17-24.	1.2	16
56	Functionally Selective Signaling for Morphine and Fentanyl Antinociception and Tolerance Mediated by the Rat Periaqueductal Gray. <i>PLoS ONE</i> , 2014, 9, e114269.	1.1	15
57	Medication overuse headache following repeated morphine, but not Δ^9 -tetrahydrocannabinol administration in the female rat. <i>Behavioural Pharmacology</i> , 2018, 29, 469-472.	0.8	15
58	Activity of neurons in the rostral medulla of the halothane-anesthetized rat during withdrawal from noxious heat. <i>Brain Research</i> , 1992, 582, 154-158.	1.1	14
59	Environmentally induced antinociception and hyperalgesia in rats and mice. <i>Brain Research</i> , 2011, 1415, 56-62.	1.1	13
60	Chronic Inflammatory Pain Prevents Tolerance to the Antinociceptive Effect of Morphine Microinjected into the Ventrolateral Periaqueductal Gray of the Rat. <i>Journal of Pain</i> , 2013, 14, 1601-1610.	0.7	13
61	Differences in antinociceptive signalling mechanisms following morphine and fentanyl microinjections into the rat periaqueductal gray. <i>European Journal of Pain</i> , 2020, 24, 617-624.	1.4	13
62	Simultaneous analysis of the time course for changes in core body temperature, activity, and nociception following systemic administration of interleukin-1 β in the rat. <i>Brain Research</i> , 2004, 996, 187-192.	1.1	12
63	Lack of Antinociceptive Cross-Tolerance With Co-Administration of Morphine and Fentanyl Into the Periaqueductal Gray of Male Sprague-Dawley Rats. <i>Journal of Pain</i> , 2019, 20, 1040-1047.	0.7	12
64	Use of home cage wheel running to assess the behavioural effects of administering a μ/δ opioid receptor heterodimer antagonist for spontaneous morphine withdrawal in the rat. <i>Behavioural Brain Research</i> , 2021, 397, 112953.	1.2	12
65	Behavioral Consequences of Delta-Opioid Receptor Activation in the Periaqueductal Gray of Morphine Tolerant Rats. <i>Neural Plasticity</i> , 2009, 2009, 1-7.	1.0	10
66	Descending modulation and nociceptive transmission. <i>Pain Forum</i> , 1996, 5, 23-27.	1.1	8
67	Contribution of the rostral ventromedial medulla to post-anxiety induced hyperalgesia. <i>Brain Research</i> , 2012, 1450, 80-86.	1.1	8
68	Social housing promotes recovery of wheel running depressed by inflammatory pain and morphine withdrawal in male rats. <i>Behavioural Brain Research</i> , 2021, 396, 112912.	1.2	8
69	Early methylphenidate exposure enhances morphine antinociception and tolerance in adult rats. <i>Neuropharmacology</i> , 2009, 57, 673-677.	2.0	7
70	Analysis of morphine-induced changes in the activity of periaqueductal gray neurons in the intact rat. <i>Neuroscience</i> , 2016, 335, 1-8.	1.1	7
71	Enhanced antinociception with repeated microinjections of apomorphine into the periaqueductal gray of male and female rats. <i>Behavioural Pharmacology</i> , 2018, 29, 234-240.	0.8	7
72	Tetrahydrocannabinol (THC) Exacerbates Inflammatory Bowel Disease in Adolescent and Adult Female Rats. <i>Journal of Pain</i> , 2021, 22, 1040-1047.	0.7	5

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73	Morphine restores and naloxone-precipitated withdrawal depresses wheel running in rats with hindpaw inflammation. <i>Pharmacology Biochemistry and Behavior</i> , 2021, 209, 173251.	1.3	5
74	Comparative benefits of social housing and buprenorphine on wheel running depressed by morphine withdrawal in rats. <i>Psychopharmacology</i> , 2021, 238, 2895-2903.	1.5	3
75	Don't Throw the Hot Plate Out With the Bath Water. <i>Journal of Pain</i> , 2011, 12, 938-939.	0.7	2
76	Chronic psychostimulant exposure to adult, but not periadolescent rats reduces subsequent morphine antinociception. <i>Pharmacology Biochemistry and Behavior</i> , 2012, 101, 538-543.	1.3	2
77	Analgesia, antianalgesia, and hyperalgesia: What role might neurons of the rostral ventromedial medulla play?. <i>APS Journal</i> , 1992, 1, 199-201.	0.2	0
78	Attenuation of dynamin-dependent internalization decreases antinociception during the expression of morphine tolerance. <i>FASEB Journal</i> , 2010, 24, 585.4.	0.2	0