Howard L Fields

List of Publications by Year
in descending order

62 papers	10,500 citations	71102 41 h-index	128289 60 g-index
64 all docs	64 docs citations	64 times ranked	8475 citing authors

#	Article	IF	Citations
1	Corticostriatal functional connectivity predicts transition to chronic back pain. Nature Neuroscience, 2012, 15, 1117-1119.	14.8	832
2	Three bulbospinal pathways from the rostral medulla of the cat: An autoradiographic study of pain modulating systems. Journal of Comparative Neurology, 1978, 178, 209-224.	1.6	628
3	The origin of descending pathways in the dorsolateral funiculus of the spinal cord of the cat and rat: Further studies on the anatomy of pain modulation. Journal of Comparative Neurology, 1979, 187, 513-531.	1.6	602
4	The Rostromedial Tegmental Nucleus (RMTg),Âa GABAergic Afferent to Midbrain Dopamine Neurons, Encodes Aversive Stimuli and Inhibits Motor Responses. Neuron, 2009, 61, 786-800.	8.1	547
5	Ventral Tegmental Area Neurons in Learned Appetitive Behavior and Positive Reinforcement. Annual Review of Neuroscience, 2007, 30, 289-316.	10.7	517
6	Unmasking the tonic-aversive state in neuropathic pain. Nature Neuroscience, 2009, 12, 1364-1366.	14.8	490
7	Midbrain Dopamine Neurons: Projection Target Determines Action Potential Duration and Dopamine D₂Receptor Inhibition. Journal of Neuroscience, 2008, 28, 8908-8913.	3.6	469
8	The ventral tegmental area revisited: is there an electrophysiological marker for dopaminergic neurons?. Journal of Physiology, 2006, 577, 907-924.	2.9	453
9	Basolateral Amygdala Neurons Facilitate Reward-Seeking Behavior by Exciting Nucleus Accumbens Neurons. Neuron, 2008, 59, 648-661.	8.1	407
10	An analgesia circuit activated by cannabinoids. Nature, 1998, 395, 381-383.	27.8	398
11	Glutamatergic activation of anterior cingulate cortex produces an aversive teaching signal. Nature Neuroscience, 2004, 7, 398-403.	14.8	307
12	Naloxone dose dependently produces analgesia and hyperalgesia in postoperative pain. Nature, 1979, 278, 740-741.	27.8	300
13	Â opioids selectively control dopaminergic neurons projecting to the prefrontal cortex. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2938-2942.	7.1	295
14	Understanding opioid reward. Trends in Neurosciences, 2015, 38, 217-225.	8.6	280
15	Pain relief produces negative reinforcement through activation of mesolimbic rewardâ€“valuation circuitry. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20709-20713.	7.1	258
16	Î¹-Opioid Agonists Directly Inhibit Midbrain Dopaminergic Neurons. Journal of Neuroscience, 2003, 23, 9981-9986.	3.6	247
17	Topical lidocaine gel relieves postherpetic neuralgia. Annals of Neurology, 1995, 37, 246-253.	5.3	246
18	Alcohol Consumption Induces Endogenous Opioid Release in the Human Orbitofrontal Cortex and Nucleus Accumbens. Science Translational Medicine, 2012, 4, 116ra6.	12.4	190

#	Article	IF	Citations
19	Causalgia and reflex sympathetic dystrophy: Does the sympathetic nervous system contribute to the generation of pain?. , 1999, 22, 678-695.		184
20	Nucleus Accumbens Medium Spiny Neurons Target Non-Dopaminergic Neurons in the Ventral Tegmental Area. Journal of Neuroscience, 2011, 31, 7811-7816.	3.6	180
21	Lesion of the rostral anterior cingulate cortex eliminates the aversiveness of spontaneous neuropathic pain following partial or complete axotomy. Pain, 2011, 152, 1641-1648.	4.2	175
22	Cue-Evoked Firing of Nucleus Accumbens Neurons Encodes Motivational Significance During a Discriminative Stimulus Task. Journal of Neurophysiology, 2004, 91, 1840-1865.	1.8	165
23	Identification of Rat Ventral Tegmental Area GABAergic Neurons. PLoS ONE, 2012, 7, e42365.	2.5	159
24	Hyperalgesia during Naloxone-Precipitated Withdrawal from Morphine Is Associated with Increased On-Cell Activity in the Rostral Ventromedial Medulla. Somatosensory & Motor Research, 1990, 7, 185-203.	0.9	158
25	Roles of Nucleus Accumbens Core and Shell in Incentive-Cue Responding and Behavioral Inhibition. Journal of Neuroscience, 2011, 31, 6820-6830.	3.6	157
26	Endogenous Opioid Activity in the Anterior Cingulate Cortex Is Required for Relief of Pain. Journal of Neuroscience, 2015, 35, 7264-7271.	3.6	154
27	The Doctor's Dilemma: Opiate Analgesics and Chronic Pain. Neuron, 2011, 69, 591-594.	8.1	133
28	Dorsomedial Prefrontal Cortex Contribution to Behavioral and Nucleus Accumbens Neuronal Responses to Incentive Cues. Journal of Neuroscience, 2008, 28, 5088-5098.	3.6	113
29	Ventral Pallidum Neurons Encode Incentive Value and Promote Cue-Elicited Instrumental Actions. Neuron, 2016, 90, 1165-1173.	8.1	107
30	How expectations influence pain. Pain, 2018, 159, S3-S10.	4.2	91
31	Opioid Modulation of Ventral Pallidal Afferents to Ventral Tegmental Area Neurons. Journal of Neuroscience, 2013, 33, 6454-6459.	3.6	88
32	Î´-Opioid Receptor Expression in the Ventral Tegmental Area Protects Against Elevated Alcohol Consumption. Journal of Neuroscience, 2008, 28, 12672-12681.	3.6	86
33	Direct Bidirectional Î¼-Opioid Control of Midbrain Dopamine Neurons. Journal of Neuroscience, 2014, 34, 14707-14716.	3.6	86
34	Putative Nociceptive Modulatory Neurons in the Rostral Ventromedial Medulla of the Rat Display Highly Correlated Firing Patterns. Somatosensory & Motor Research, 1989, 6, 413-425.	0.9	84
35	Both Kappa and Mu Opioid Agonists Inhibit Glutamatergic Input to Ventral Tegmental Area Neurons. Journal of Neurophysiology, 2005, 93, 3086-3093.	1.8	83
36	Contrasting effects of dopamine and glutamate receptor antagonist injection in the nucleus accumbens suggest a neural mechanism underlying cue-evoked goal-directed behavior. European Journal of Neuroscience, 2004, 20, 249-263.	2.6	82

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37	Reliability in the Identification of Midbrain Dopamine Neurons. PLoS ONE, 2010, 5, e15222.	2.5	65
38	Mu Opioid Receptor Actions in the Lateral Habenula. PLoS ONE, 2016, 11, e0159097.	2.5	58
39	Pain modulates dopamine neurons via a spinalâ€“parabrachialâ€“mesencephalic circuit. Nature Neuroscience, 2021, 24, 1402-1413.	14.8	52
40	Can opiates relieve neuropathic pain?. Pain, 1988, 35, 365.	4.2	47
41	Sources of variability in the sensation of pain. Pain, 1988, 33, 195-200.	4.2	46
42	The prolactin receptor long isoform regulates nociceptor sensitization and opioid-induced hyperalgesia selectively in females. Science Translational Medicine, 2020, 12, .	12.4	46
43	Cortico-Accumbens Regulation of Approach-Avoidance Behavior Is Modified by Experience and Chronic Pain. Cell Reports, 2017, 19, 1522-1531.	6.4	42
44	Should we be reluctant to prescribe opioids for chronic non-malignant pain?. Pain, 2007, 129, 233-234.	4.2	37
45	Endogenous opioids encode relative taste preference. European Journal of Neuroscience, 2006, 24, 1220-1226.	2.6	35
46	Two delta opioid receptor subtypes are functional in single ventral tegmental area neurons, and can interact with the mu opioid receptor. Neuropharmacology, 2017, 123, 420-432.	4.1	35
47	Mu-opioid receptor activation in the medial shell of nucleus accumbens promotes alcohol consumption, self-administration and cue-induced reinstatement. Neuropharmacology, 2016, 108, 14-23.	4.1	31
48	Pain II: New approaches to management. Annals of Neurology, 1981, 9, 101-106.	5.3	26
49	On the functional anatomy of migraine. Annals of Neurology, 1998, 43, 272-272.	5.3	21
50	Intra-VTA Deltorphin, But Not DPDPE, Induces Place Preference in Ethanol-Drinking Rats: Distinct DOR-1 and DOR-2 Mechanisms Control Ethanol Consumption and Reward. Alcoholism: Clinical and Experimental Research, 2014, 38, 195-203.	2.4	21
51	GABA-immunoreactive boutons contact identified OFF and ON cells in the nucleus raphe magnus. Journal of Comparative Neurology, 1997, 378, 196-204.	1.6	20
52	A Midbrain Circuit that Mediates Headache Aversiveness in Rats. Cell Reports, 2019, 28, 2739-2747.e4.	6.4	19
53	More pain; less gain. Science, 2014, 345, 513-514.	12.6	13
54	Onset hyperalgesia and offset analgesia: Transient increases or decreases of noxious thermal stimulus intensity robustly modulate subsequent perceived pain intensity. PLoS ONE, 2020, 15, e0231124.	2.5	12

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55	Pain and the primary somatosensory cortex. Pain, 2012, 153, 742-743.	4.2	9
56	Clinical and neuroscience evidence supports the critical importance of patient expectations and agency in opioid tapering. Pain, 2022, 163, 824-826.	4.2	6
57	Pain: Anatomy and Physiology. Journal of Alternative and Complementary Medicine, 1997, 3, s-41-s-46.	2.1	4
58	Optimal opioid treatment requires a consensual approach. Pain, 2022, 163, e689-e690.	4.2	2
59	A multicenter, randomized, double-blind, placebo-controlled, comparative study to evaluate the efficacy and safety of newly developed diclofenac patches in patients with cancer pain. Pain, 2021, Publish Ahead of Print, .	4.2	1
60	Science in China. Science, 1996, 273, 1478-1478.	12.6	0
61	Science in China. Science, 1996, 273, 1478-1478.	12.6	0
62	A deeper dive into top-down control of pain and itch. Brain, 0, , .	7.6	0