Timothy J Brennan

List of Publications by Citations

112 papers	5,845 citations	40 h-index	75 g-index
120 ext. papers	6,444 ext. citations	4.7 avg, IF	5.71 L-index

#	Paper	IF	Citations
112	Characterization of a rat model of incisional pain. *Pain*, **1996**, 64, 493-502	8	755
111	The DRASIC cation channel contributes to the detection of cutaneous touch and acid stimuli in mice. *Neuron*, **2001**, 32, 1071-83	13.9	512
110	The mammalian sodium channel BNC1 is required for normal touch sensation. *Nature*, **2000**, 407, 1007-11	50.4	414
109	A-317491, a novel potent and selective non-nucleotide antagonist of P2X3 and P2X2/3 receptors, reduces chronic inflammatory and neuropathic pain in the rat. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 17179-84	11.5	390
108	Characterization of Adelta- and C-fibers innervating the plantar rat hindpaw one day after an incision. *Journal of Neurophysiology*, **2002**, 87, 721-31	3.2	160
107	Changes in tissue pH and temperature after incision indicate acidosis may contribute to postoperative pain. *Anesthesiology*, **2004**, 101, 468-75	4.3	139
106	Pathophysiology of postoperative pain. *Pain*, **2011**, 152, S33-S40	8	127
105	The ion channel ASIC1 contributes to visceral but not cutaneous mechanoreceptor function. *Gastroenterology*, **2004**, 127, 1739-47	13.3	123
104	Thoracic epidural analgesia and acute pain management. *Anesthesiology*, **2011**, 115, 181-8	4.3	118
103	Mechanisms of incisional pain. *Anesthesiology Clinics*, **2005**, 23, 1-20		114
102	Guarding pain and spontaneous activity of nociceptors after skin versus skin plus deep tissue incision. *Anesthesiology*, **2010**, 112, 153-64	4.3	108
101	Intrathecal non-NMDA excitatory amino acid receptor antagonists inhibit pain behaviors in a rat model of postoperative pain. *Pain*, **1998**, 74, 213-23	8	103
100	A Prospective Study of Chronic Pain after Thoracic Surgery. *Anesthesiology*, **2017**, 126, 938-951	4.3	98
99	Incidence and severity of chronic pain at 3 and 6 months after thoracotomy: meta-analysis. *Journal of Pain*, **2014**, 15, 887-97	5.2	91
98	Preventive analgesia to reduce wound hyperalgesia and persistent postsurgical pain: not an easy path. *Anesthesiology*, **2005**, 103, 681-3	4.3	87
97	Research Gaps in Practice Guidelines for Acute Postoperative Pain Management in Adults: Findings From a Review of the Evidence for an American Pain Society Clinical Practice Guideline. *Journal of Pain*, **2016**, 17, 158-66	5.2	83
96	Increased nerve growth factor after rat plantar incision contributes to guarding behavior and heat hyperalgesia. *Pain*, **2005**, 117, 68-76	8	79

95	Comparison of skin incision vs. skin plus deep tissue incision on ongoing pain and spontaneous activity in dorsal horn neurons. *Pain*, **2009**, 144, 329-339	8	77
94	Effect of blockade of nerve growth factor and tumor necrosis factor on pain behaviors after plantar incision. *Journal of Pain*, **2004**, 5, 157-63	5.2	74
93	Lumbar catheterization of the subarachnoid space with a 32-gauge polyurethane catheter in the rat. *European Journal of Pain*, **2000**, 4, 111-3	3.7	71
92	Nerve growth factor expression after plantar incision in the rat. *Anesthesiology*, **2007**, 107, 128-35	4.3	66
91	Acute effect of an incision on mechanosensitive afferents in the plantar rat hindpaw. *Journal of Neurophysiology*, **2002**, 87, 712-20	3.2	66
90	Strain and sex influence on pain sensitivity after plantar incision in the mouse. *Anesthesiology*, **2006**, 105, 1246-53	4.3	64
89	Excitatory amino acid release in the spinal cord caused by plantar incision in the rat. *Pain*, **2002**, 100, 65-76	8	61
88	Effect of plantar local anesthetic injection on dorsal horn neuron activity and pain behaviors caused by incision. *Pain*, **2002**, 97, 151-61	8	60
87	Spinal administration of MK-801 and NBQX demonstrates NMDA-independent dorsal horn sensitization in incisional pain. *Pain*, **2005**, 114, 499-510	8	58
86	Spinal glutamate receptor antagonists differentiate primary and secondary mechanical hyperalgesia caused by incision. *Pain*, **2003**, 105, 97-107	8	58
85	Effects of stimulating the subcoeruleus-parabrachial region on the non-noxious and noxious responses of T1-T5 spinothalamic tract neurons in the primate. *Brain Research*, **1987**, 409, 19-30	3.7	58
84	Expression profile of nerve growth factor after muscle incision in the rat. *Anesthesiology*, **2009**, 110, 140-9	4.3	57
83	Postoperative pain--clinical implications of basic research. *Baillieres Best Practice and Research in Clinical Anaesthesiology*, **2007**, 21, 3-13	4	55
82	Lactate concentrations in incisions indicate ischemic-like conditions may contribute to postoperative pain. *Journal of Pain*, **2007**, 8, 59-66	5.2	54
81	Simultaneous disruption of mouse ASIC1a, ASIC2 and ASIC3 genes enhances cutaneous mechanosensitivity. *PLoS ONE*, **2012**, 7, e35225	3.7	52
80	Spontaneous discharge and increased heat sensitivity of rat C-fiber nociceptors are present in vitro after plantar incision. *Pain*, **2004**, 112, 204-13	8	50
79	Nociceptive sensitization by complement C5a and C3a in mouse. *Pain*, **2010**, 148, 343-352	8	48
78	Immediate early genes after pulsed radiofrequency treatment: neurobiology in need of clinical trials. *Anesthesiology*, **2005**, 102, 1-3	4.3	45

77	Persistent secondary hyperalgesia after gastrocnemius incision in the rat. *European Journal of Pain*, **2002**, 6, 295-305	3.7	44
76	Trpv1 mediates spontaneous firing and heat sensitization of cutaneous primary afferents after plantar incision. *Pain*, **2009**, 141, 41-51	8	43
75	Sensitization of primary afferents to mechanical and heat stimuli after incision in a novel in vitro mouse glabrous skin-nerve preparation. *Pain*, **2008**, 138, 380-391	8	42
74	Effect of AMG0347, a transient receptor potential type V1 receptor antagonist, and morphine on pain behavior after plantar incision. *Anesthesiology*, **2008**, 108, 1100-8	4.3	41
73	Gene expression in skin, muscle, and dorsal root ganglion after plantar incision in the rat. *Anesthesiology*, **2012**, 117, 161-72	4.3	41
72	The pathophysiology of acute pain: animal models. *Current Opinion in Anaesthesiology*, **2011**, 24, 508-14	2.9	39
71	Increased local concentration of complement C5a contributes to incisional pain in mice. *Journal of Neuroinflammation*, **2011**, 8, 80	10.1	37
70	Prevalence and risk factors predisposing to coagulopathy in patients receiving epidural analgesia for hepatic surgery. *Regional Anesthesia and Pain Medicine*, **2009**, 34, 308-11	3.4	37
69	Differential effect of capsaicin treatment on pain-related behaviors after plantar incision. *Journal of Pain*, **2009**, 10, 637-45	5.2	34
68	The effect of the AMPA/kainate receptor antagonist LY293558 in a rat model of postoperative pain. *Journal of Pain*, **2006**, 7, 768-77	5.2	34
67	The ACTTION-APS-AAPM Pain Taxonomy (AAAPT) Multidimensional Approach to Classifying Acute Pain Conditions. *Journal of Pain*, **2017**, 18, 479-489	5.2	31
66	Postoperative Models of Nociception. *ILAR Journal*, **1999**, 40, 129-136	1.7	31
65	Frontiers in translational research: the etiology of incisional and postoperative pain. *Anesthesiology*, **2002**, 97, 535-7	4.3	31
64	Effect of capsaicin treatment on nociceptors in rat glabrous skin one day after plantar incision. *Pain* , **2010**, 148, 128-140	8	30
63	Single intrathecal administration of the transcription factor decoy AYX1 prevents acute and chronic pain after incisional, inflammatory, or neuropathic injury. *Pain*, **2014**, 155, 322-333	8	29
62	The ACTTION-APS-AAPM Pain Taxonomy (AAAPT) Multidimensional Approach to Classifying Acute Pain Conditions. *Pain Medicine*, **2017**, 18, 947-958	2.8	27
61	Hind paw incision in the rat produces long-lasting colon hypersensitivity. *Journal of Pain*, **2008**, 9, 246-53	5.2	27
60	Wound hypoxia in deep tissue after incision in rats. *Wound Repair and Regeneration*, **2013**, 21, 730-9	3.6	26

59	GABA inhibition of central angiotensin II and hypertonic CSF pressor responses. *Brain Research*, **1983**, 267, 261-9	3.7	25
58	A new device concept for directly modulating spinal cord pathways: initial in vivo experimental results. *Physiological Measurement*, **2012**, 33, 2003-15	2.9	24
57	Ketoprofen produces modality-specific inhibition of pain behaviors in rats after plantar incision. *Anesthesia and Analgesia*, **2009**, 109, 1992-9	3.9	23
56	Epidural tezampanel, an AMPA/kainate receptor antagonist, produces postoperative analgesia in rats. *Anesthesia and Analgesia*, **2007**, 105, 1152-9, table of contents	3.9	22
55	Incisional sensitivity and pain measurements: dissecting mechanisms for postoperative pain. *Anesthesiology*, **2005**, 103, 3-4	4.3	22
54	Role of the rostral medial medulla in the development of primary and secondary hyperalgesia after incision in the rat. *Anesthesiology*, **2002**, 96, 1153-60	4.3	22
53	Preoperative Patient Expectations of Postoperative Pain Are Associated with Moderate to Severe Acute Pain After VATS. *Pain Medicine*, **2019**, 20, 543-554	2.8	21
52	Separate groups of dorsal horn neurons transmit spontaneous activity and mechanosensitivity one day after plantar incision. *European Journal of Pain*, **2009**, 13, 820-8	3.7	21
51	Bradykinin antagonists have no analgesic effect on incisional pain. *Anesthesia and Analgesia*, **2004**, 99, 1166-1172	3.9	20
50	Increased sensitivity of group III and group IV afferents from incised muscle in vitro. *Pain*, **2010**, 151, 744-755	8	19
49	Intrathecal Metabotropic Glutamate Receptor Antagonists Do Not Decrease Mechanical Hyperalgesia in a Rat Model of Postoperative Pain. *Anesthesia and Analgesia*, **1998**, 87, 1354-1359	3.9	19
48	GABA agonists inhibit the vasopressin-dependent pressor effects of central angiotensin II. *Neuroendocrinology*, **1984**, 39, 429-36	5.6	19
47	Muscle Reactive Oxygen Species (ROS) Contribute to Post-Incisional Guarding via the TRPA1 Receptor. *PLoS ONE*, **2017**, 12, e0170410	3.7	19
46	Chemosensitivity and mechanosensitivity of nociceptors from incised rat hindpaw skin. *Anesthesiology*, **2009**, 111, 155-64	4.3	18
45	Mechanisms for Pain Caused by Incisions. *Regional Anesthesia and Pain Medicine*, **2002**, 27, 514-516	3.4	18
44	Inhibition of cardiopulmonary input to thoracic spinothalamic tract cells by stimulation of the subcoeruleus-parabrachial region in the primate. *Journal of the Autonomic Nervous System*, **1987**, 18, 61-72		18
43	Neuropeptide Y is analgesic in rats after plantar incision. *European Journal of Pharmacology*, **2013**, 698, 206-12	5.3	17
42	Mechanisms for pain caused by incisions. *Regional Anesthesia and Pain Medicine*, **2002**, 27, 514-6	3.4	17

41	Preemptive analgesia: Moving beyond conventional strategies and confusing terminology. *Journal of Pain*, **2000**, 1, 77-84	5.2	17
40	Reflex sympathetic dystrophy after a minor electric shock. *Journal of Emergency Medicine*, **1993**, 11, 393-6	1.5	16
39	An Evaluation of Factors Related to Postoperative Pain Control in Burn Patients. *Journal of Burn Care and Research*, **2015**, 36, 580-6	0.8	15
38	Conditioned place preference and spontaneous dorsal horn neuron activity in chronic constriction injury model in rats. *Pain*, **2015**, 156, 2562-2571	8	15
37	Hydrogen Peroxide Induces Muscle Nociception via Transient Receptor Potential Ankyrin 1 Receptors. *Anesthesiology*, **2017**, 127, 695-708	4.3	14
36	A Comparison of 2 Ultrasound-Guided Approaches to the Saphenous Nerve Block: Adductor Canal Versus Distal Transsartorial: A Prospective, Randomized, Blinded, Noninferiority Trial. *Regional Anesthesia and Pain Medicine*, **2015**, 40, 623-30	3.4	14
35	Transesophageal echocardiography: a novel technique for guidance and placement of an epidural catheter in infants. *Anesthesiology*, **2013**, 118, 219-22	4.3	14
34	Intrathecal Metabotropic Glutamate Receptor Antagonists Do Not Decrease Mechanical Hyperalgesia in a Rat Model of Postoperative Pain. *Anesthesia and Analgesia*, **1998**, 87, 1354-1359	3.9	14
33	Effect of deep tissue incision on pH responses of afferent fibers and dorsal root ganglia innervating muscle. *Anesthesiology*, **2013**, 119, 1186-97	4.3	13
32	Pain assessment, sedation, and analgesic administration in the intensive care unit. *Anesthesiology*, **2009**, 111, 1187-8	4.3	12
31	Evaluation of leukemia inhibitory factor (LIF) in a rat model of postoperative pain. *Journal of Pain*, **2011**, 12, 819-32	5.2	11
30	Opioids: more to learn, improvements to be made. *Anesthesiology*, **2003**, 98, 1309-12	4.3	11
29	Effect of intrathecal non-NMDA EAA receptor antagonist LY293558 in rats: a new class of drugs for spinal anesthesia. *Anesthesiology*, **2002**, 97, 177-82	4.3	11
28	Pain after surgery. *Pain*, **2018**, 159, 1010-1011	8	11
27	Comparison of Conventional and Kilohertz Frequency Epidural Stimulation in Patients Undergoing Trialing for Spinal Cord Stimulation: Clinical Considerations. *World Neurosurgery*, **2016**, 88, 586-591	2.1	10
26	Perioperative pain management in the opioid-tolerant individual. *Journal of Pain*, **2008**, 9, 383-7	5.2	10
25	Thermoregulatory behavior is disrupted in rats with lesions of the anteroventral third ventricular area (AV3V). *Physiology and Behavior*, **2006**, 87, 493-9	3.5	10
24	Mechanisms of postoperative pain. *Anesthesia and Pain Medicine*, **2016**, 11, 236-248	0.3	10

23	Ovine model of neuropathic pain for assessing mechanisms of spinal cord stimulation therapy via dorsal horn recordings, von Frey filaments, and gait analysis. *Journal of Pain Research*, **2018**, 11, 1147-1162	2.9	9
22	Revisiting intradural spinal cord stimulation: an introduction to a novel intradural spinal cord stimulation device. *Innovative Neurosurgery*, **2014**, 2,		8
21	Analgesic treatment before incision compared with treatment after incision provides no improvement in postoperative pain relief. *Journal of Pain*, **2000**, 1, 96-98	5.2	7
20	Pain-Related Limitations in Daily Activities Following Thoracic Surgery in a United States Population. *Pain Physician*, **2017**, 20, E367-E378	1.8	6
19	Effect of intrathecal ACEA-1021 in a rat model for postoperative pain. *Journal of Pain*, **2000**, 1, 279-84	5.2	5
18	Continuous cervical paravertebral catheter knot. *Journal of Clinical Anesthesia*, **2010**, 22, 135-8	1.9	2
17	A rat model of postoperative pain. *Current Protocols in Pharmacology*, **2004**, Chapter 5, Unit 5.34	4.1	2
16	Movement-Evoked Pain Versus Pain at Rest in Postsurgical Clinical Trials and Meta-Analyses: Protocol for a Follow-Up Systematic Review. *JMIR Research Protocols*, **2020**, 9, e15309	2	2
15	Deep Tissue Incision Enhances Spinal Dorsal Horn Neuron Activity During Static Isometric Muscle Contraction in Rats. *Journal of Pain*, **2019**, 20, 301-314	5.2	2
14	Response to "VATS thoracotomy regarding postoperative chronic pain". *Journal of Thoracic Disease*, **2017**, 9, E1151-E1153	2.6	1
13	Is second pain worse than the first?. *Pain*, **2014**, 155, 2-3	8	1
12	Acute Pain. *Refresher Courses in Anesthesiology*, **2010**, 38, 8-15		1
11	Anesthesiology and the press. *Anesthesiology*, **2007**, 107, 8	4.3	1
10	Animal Models of Postoperative Pain. *Neuromethods*, **2011**, 181-200	0.4	1
9	Effect of Thoracic Epidural Anesthesia in a Rat Model of Phrenic Motor Inhibition after Upper Abdominal Surgery. *Anesthesiology*, **2018**, 129, 791-807	4.3	1
8	AAAPT Diagnostic Criteria for Acute Thoracic Surgery Pain. *Journal of Pain*, **2021**, 22, 892-904	5.2	1
7	Response to "Editorial on pain following thoracic surgery". *Journal of Thoracic Disease*, **2017**, 9, E1154-E1155	2.6	
6	Successful conservative management of an intrathecal catheter-associated inflammatory mass. *Spine Journal*, **2013**, 13, 1708-9	4	

5 Perioperative Medicine in the United States. *Perioperative Medizin*, **2009**, 1, 211-216

4 Sensory systems **2006**, 257-266

3 2007 in review: a dozen steps forward in Anesthesiology. *Anesthesiology*, **2008**, 108, 149-55 4.3

2 2008 in review: advancing medicine in anesthesiology. *Anesthesiology*, **2008**, 109, 962-72 4.3

1 In Reply. *Anesthesiology*, **2018**, 128, 225 4.3