Tony L Yaksh

List of Publications by Year
in descending order

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240	17,790	12322	15249
papers	citations	69 h-index	126 g-index

258	258	258	9801
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Chronic catheterization of the spinal subarachnoid space. Physiology and Behavior, 1976, 17, 1031-1036.	1.0	2,161
2	Behavioral and autonomic correlates of the tactile evoked allodynia produced by spinal glycine inhibition: effects of modulatory receptor systems and excitatory amino acid antagonists. Pain, 1989, 37, 111-123.	2.0	625
3	Upregulation of Dorsal Root Ganglion Î±₂Î´ Calcium Channel Subunit and Its Correlation with Allodynia in Spinal Nerve-Injured Rats. Journal of Neuroscience, 2001, 21, 1868-1875.	1.7	581
4	Pharmacology of spinal adrenergic systems which modulate spinal nociceptive processing. Pharmacology Biochemistry and Behavior, 1985, 22, 845-858.	1.3	569
5	Spinal opiate analgesia: Characteristics and principles of action. Pain, 1981, 11, 293-333.	2.0	518
6	Spinal nitric oxide synthesis inhibition blocks NMDA-induced thermal hyperalgesia and produces antinociception in the formalin test in rats. Pain, 1993, 54, 291-300.	2.0	359
7	Activation of p38 mitogen-activated protein kinase in spinal microglia is a critical link in inflammation-induced spinal pain processing. Journal of Neurochemistry, 2003, 86, 1534-1544.	2.1	354
8	THESPINALPHOSPHOLIPASE-CYCLOOXYGENASE-PROSTANOIDCASCADE INNOCICEPTIVEPROCESSING. Annual Review of Pharmacology and Toxicology, 2002, 42, 553-583.	4.2	287
9	Spinal pharmacology of thermal hyperesthesia induced by constriction injury of sciatic nerve. Excitatory amino acid antagonists. Pain, 1992, 49, 121-128.	2.0	280
10	Increased Sensitivity of Injured and Adjacent Uninjured Rat Primary Sensory Neurons to Exogenous Tumor Necrosis Factor-Î± after Spinal Nerve Ligation. Journal of Neuroscience, 2003, 23, 3028-3038.	1.7	278
11	The Acute Antihyperalgesic Action of Nonsteroidal, Anti-Inflammatory Drugs and Release of Spinal Prostaglandin E₂Is Mediated by the Inhibition of Constitutive Spinal Cyclooxygenase-2 (COX-2) but not COX-1. Journal of Neuroscience, 2001, 21, 5847-5853.	1.7	274
12	Polyanalgesic Consensus Conference 2012: Recommendations for the Management of Pain by Intrathecal (Intraspinal) Drug Delivery: Report of an Interdisciplinary Expert Panel. Neuromodulation, 2012, 15, 436-466.	0.4	241
13	The Polyanalgesic Consensus Conference (PACC): Recommendations on Intrathecal Drug Infusion Systems Best Practices and Guidelines. Neuromodulation, 2017, 20, 96-132.	0.4	241
14	Characterization of variables defining hindpaw withdrawal latency evoked by radiant thermal stimuli. Journal of Neuroscience Methods, 1997, 76, 183-191.	1.3	233
15	Intrathecal minocycline attenuates peripheral inflammationâ€induced hyperalgesia by inhibiting p38 MAPK in spinal microglia. European Journal of Neuroscience, 2005, 22, 2431-2440.	1.2	233
16	Spinal systems and pain processing: development of novel analgesic drugs with mechanistically defined models. Trends in Pharmacological Sciences, 1999, 20, 329-337.	4.0	216
17	Effect of continuous intrathecal infusion of Ï‰-conopeptides, N-type calcium-channel blockers, on behavior and antinociception in the formalin and hot-plate tests in rats. Pain, 1995, 60, 83-90.	2.0	203
18	Prolonged Alleviation of Tactile Allodynia by Intravenous Lidocaine in Neuropathic Rats. Anesthesiology, 1995, 83, 775-785..	1.3	190

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19	Rapid continuous 3D printing of customizable peripheral nerve guidance conduits. Materials Today, 2018, 21, 951-959.	8.3	173
20	Stereospecific effects of a nonpeptidic NK1 selective antagonist, CP-96,345: Antinociception in the absence of motor dysfunction. Life Sciences, 1991, 49, 1955-1963.	2.0	167
21	Systemic and supraspinal, but not spinal, opiates suppress allodynia in a rat neuropathic pain model. Neuroscience Letters, 1995, 199, 111-114.	1.0	166
22	Inflammatory Masses Associated with Intrathecal Drug Infusion: A Review of Preclinical Evidence and Human Data. Pain Medicine, 2002, 3, 300-312.	0.9	163
23	Chronically Infused Intrathecal Morphine in Dogs. Anesthesiology, 2003, 99, 174-187.	1.3	163
24	A brief comparison of the pathophysiology of inflammatory versus neuropathic pain. Current Opinion in Anaesthesiology, 2011, 24, 400-407.	0.9	160
25	The spinal loop dialysis catheter: characterization of use in the unanesthetized rat. Journal of Neuroscience Methods, 1995, 62, 43-53.	1.3	148
26	In vivo evidence for multiple opiate receptors mediating analgesia in the rat spinal cord. Brain Research, 1982, 247, 75-83.	1.1	146
27	Spinal p38 MAP kinase is necessary for NMDA-induced spinal PGE2 release and thermal hyperalgesia. NeuroReport, 2003, 14, 1153-1157.	0.6	138
28	Spinal p38Î² isoform mediates tissue injury-induced hyperalgesia and spinal sensitization. Journal of Neurochemistry, 2005, 92, 1508-1520.	2.1	133
29	The effect of morphine on formalinâ€evoked behaviour and spinal release of excitatory amino acids and prostaglandin E₂ using microdialysis in conscious rats. British Journal of Pharmacology, 1995, 114, 1069-1075.	2.7	132
30	Characterization of time course of spinal amino acids, citrulline and PGE2 release after carrageenan/kaolin-induced knee joint inflammation: a chronic microdialysis study. Pain, 1996, 67, 345-354.	2.0	131
31	Localization of N-type Ca 2+ channels in the rat spinal cord following chronic constrictive nerve injury. Experimental Brain Research, 2002, 147, 456-463.	0.7	131
32	Galmic, a nonpeptide galanin receptor agonist, affects behaviors in seizure, pain, and forced-swim tests. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 10470-10475.	3.3	131
33	Calcium Channels As Therapeutic Targets in Neuropathic Pain. Journal of Pain, 2006, 7, S13-S30.	0.7	128
34	An automated flinch detecting system for use in the formalin nociceptive bioassay. Journal of Applied Physiology, 2001, 90, 2386-2402.	1.2	127
35	Spinal TLR4 mediates the transition to a persistent mechanical hypersensitivity after the resolution of inflammation in serum-transferred arthritis. Pain, 2011, 152, 2881-2891.	2.0	123
36	The Polyanalgesic Consensus Conference (PACC): Recommendations for Intrathecal Drug Delivery: Guidance for Improving Safety and Mitigating Risks. Neuromodulation, 2017, 20, 155-176.	0.4	121

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37	Characterization of the acute and persistent pain state present in K/BxN serum transfer arthritis. Pain, 2010, 151, 394-403.	2.0	117
38	Spinal Phosphinositide 3-Kinaseâ€“Aktâ€“Mammalian Target of Rapamycin Signaling Cascades in Inflammation-Induced Hyperalgesia. Journal of Neuroscience, 2011, 31, 2113-2124.	1.7	117
39	Vincristine-induced allodynia in the rat. Pain, 2001, 93, 69-76.	2.0	112
40	Inhibition by Spinal Â- and Â-Opioid Agonists of Afferent-Evoked Substance P Release. Journal of Neuroscience, 2005, 25, 3651-3660.	1.7	112
41	Opioid modulation of capsaicin-evoked release of substance P from rat spinal cord in vivo. Peptides, 1989, 10, 1127-1131.	1.2	108
42	Spinal 12-lipoxygenase-derived hepoxilin A ₃ contributes to inflammatory hyperalgesia via activation of TRPV1 and TRPA1 receptors. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6721-6726.	3.3	105
43	Polyanalgesic Consensus Conferenceâ€”2012: Recommendations to Reduce Morbidity and Mortality in Intrathecal Drug Delivery in the Treatment of Chronic Pain. Neuromodulation, 2012, 15, 467-482.	0.4	103
44	Transient Spinal Ischemia in Rat: Characterization of Spinal Cord Blood Flow, Extracellular Amino Acid Release, and Concurrent Histopathological Damage. Journal of Cerebral Blood Flow and Metabolism, 1994, 14, 604-614.	2.4	93
45	Constitutive Spinal Cyclooxygenase-2 Participates in the Initiation of Tissue Injury-Induced Hyperalgesia. Journal of Neuroscience, 2004, 24, 2727-2732.	1.7	93
46	Retrospective consideration of the doses of morphine given intrathecally by chronic infusion in 163 patients by 19 physicians. Pain, 1987, 31, 211-223.	2.0	92
47	Cyclooxygenase inhibition in nerve-injury- and TNF-induced hyperalgesia in the rat. Experimental Neurology, 2004, 185, 160-168.	2.0	91
48	Neuraxial Analgesia in Neonates and Infants. Anesthesia and Analgesia, 2012, 115, 638-662.	1.1	89
49	Concurrent Spinal Infusion of MK801 Blocks Spinal Tolerance and Dependence Induced by Chronic Intrathecal Morphine in the Rat. Anesthesiology, 1996, 84, 1177-1188.	1.3	88
50	Toll-like receptor signaling adapter proteins govern spread of neuropathic pain and recovery following nerve injury in male mice. Journal of Neuroinflammation, 2013, 10, 148.	3.1	88
51	Targeting toll-like receptor-4 (TLR4)â€”an emerging therapeutic target for persistent pain states. Pain, 2018, 159, 1908-1915.	2.0	88
52	Neuraxial Cytokines in Pain States. Frontiers in Immunology, 2019, 10, 3061.	2.2	88
53	Polyanalgesic Consensus Conferenceâ€”2012: Consensus on Diagnosis, Detection, and Treatment of Catheter-Tip Granulomas (Inflammatory Masses). Neuromodulation, 2012, 15, 483-496.	0.4	85
54	The Effect of Intrathecal Gabapentin on Pain Behavior and Hemodynamics on the Formalin Test in the Rat. Anesthesia and Analgesia, 1999, 89, 434-439.	1.1	84

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55	The Use of Intrathecal Midazolam in Humans: A Case Study of Process. Anesthesia and Analgesia, 2004, 98, 1536-1545.	1.1	84
56	Identification of Psychoactive Degradants of Cannabidiol in Simulated Gastric and Physiological Fluid. Cannabis and Cannabinoid Research, 2016, 1, 102-112.	1.5	84
57	Time Course and Role of Morphine Dose and Concentration in Intrathecal Granuloma Formation in Dogs. Anesthesiology, 2006, 105, 581-589.	1.3	83
58	The search for novel analgesics: targets and mechanisms. F1000prime Reports, 2015, 7, 56.	5.9	83
59	Effects of Intrathecal Ketamine in the Neonatal Rat. Anesthesiology, 2010, 113, 147-159.	1.3	83
60	Opiate Pharmacology of Intrathecal Granulomas. Anesthesiology, 2006, 105, 590-598.	1.3	82
61	Descending serotonergic facilitation of spinal ERK activation and pain behavior. FEBS Letters, 2006, 580, 6629-6634.	1.3	81
62	Anti-allodynic efficacy of the Ï‡-conopeptide, Xen2174, in rats with neuropathic pain. Pain, 2005, 118, 112-124.	2.0	78
63	Therapeutic use of botulinum toxin in migraine: mechanisms of action. British Journal of Pharmacology, 2014, 171, 4177-4192.	2.7	78
64	Nerve growth factor antibody for the treatment of osteoarthritis pain and chronic low-back pain: mechanism of action in the context of efficacy and safety. Pain, 2019, 160, 2210-2220.	2.0	78
65	Spinal phospholipase A2 in inflammatory hyperalgesia: role of Group IVA cPLA2. British Journal of Pharmacology, 2005, 144, 940-952.	2.7	76
66	Effects of Intrathecal NMDA and Non-NMDA Antagonists on Acute Thermal Nociception and Their Interaction with Morphine. Anesthesiology, 1998, 89, 715-722..	1.3	74
67	Transient Spinal Ischemia in the Rat: Characterization of Behavioral and Histopathological Consequences as a Function of the Duration of Aortic Occlusion. Journal of Cerebral Blood Flow and Metabolism, 1994, 14, 526-535.	2.4	73
68	Mechanism of Action of Nonsteroidal Anti-inflammatory Drugs. Cancer Investigation, 1998, 16, 509-527.	0.6	73
69	Antinociceptive effects of intrathecally administered human Î²-endorphin in the rat and cat. Canadian Journal of Physiology and Pharmacology, 1978, 56, 754-759.	0.7	69
70	Systemic and Intrathecal Effects of a Novel Series of Phospholipase A2 Inhibitors on Hyperalgesia and Spinal Prostaglandin E2 Release. Journal of Pharmacology and Experimental Therapeutics, 2006, 316, 466-475.	1.3	68
71	Persistent Hyperalgesia in the Cisplatin-Treated Mouse as Defined by Threshold Measures, the Conditioned Place Preference Paradigm, and Changes in Dorsal Root Ganglia Activated Transcription Factor 3. Anesthesia and Analgesia, 2013, 116, 224-231.	1.1	68
72	Nonopioid Actions of Intrathecal Dynorphin Evoke Spinal Excitatory Amino Acid and Prostaglandin E2 Release Mediated by Cyclooxygenase-1 and -2. Journal of Neuroscience, 2004, 24, 1451-1458.	1.7	67

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73	Inhibition of spinal protein kinase C reduces nerve injury-induced tactile allodynia in neuropathic rats. Neuroscience Letters, 1999, 276, 99-102.	1.0	65
74	The utility of 2-hydroxypropyl-Î²-cyclodextrin as a vehicle for the intracerebral and intrathecal administration of drugs. Life Sciences, 1991, 48, 623-633.	2.0	64
75	Neuraxial Morphine May Trigger Transient Motor Dysfunction after a Noninjurious Interval of Spinal Cord Ischemia. Anesthesiology, 2003, 98, 862-870.	1.3	63
76	Galanin Acts at GalR1 Receptors in Spinal Antinociception: Synergy with Morphine and AP-5. Journal of Pharmacology and Experimental Therapeutics, 2004, 308, 574-582.	1.3	63
77	Mechanical allodynia in rats is blocked by a Ca2+ permeable AMPA receptor antagonist. NeuroReport, 1999, 10, 3523-3526.	0.6	62
78	Botulinum toxin B in the sensory afferent: Transmitter release, spinal activation, and pain behavior. Pain, 2014, 155, 674-684.	2.0	62
79	A novel model of primary and secondary hyperalgesia after mild thermal injury in the rat. Neuroscience Letters, 1998, 254, 25-28.	1.0	61
80	Current Status and Future Directions of Botulinum Neurotoxins for Targeting Pain Processing. Toxins, 2015, 7, 4519-4563.	1.5	61
81	Antinociception produced by spinal delivery of the S and R enantiomers of flurbiprofen in the formalin test. European Journal of Pharmacology, 1994, 256, 205-209.	1.7	58
82	In vitroprostanoid release from spinal cord following peripheral inflammation: effects of substance P, NMDA and capsaicin. British Journal of Pharmacology, 1999, 126, 1333-1340.	2.7	58
83	Systemic TAK-242 prevents intrathecal LPS evoked hyperalgesia in male, but not female mice and prevents delayed allodynia following intraplantar formalin in both male and female mice: The role of TLR4 in the evolution of a persistent pain state. Brain, Behavior, and Immunity, 2016, 56, 271-280.	2.0	58
84	Sex differences in neuroimmune and glial mechanisms of pain. Pain, 2021, 162, 2186-2200.	2.0	58
85	Antinociceptive effect of spinally delivered prostaglandin E receptor antagonists in the formalin test on the rat. Neuroscience Letters, 1994, 173, 193-196.	1.0	57
86	Current and Future Issues in the Development of Spinal Agents for the Management of Pain. Current Neuropharmacology, 2017, 15, 232-259.	1.4	57
87	Pharmacology and Toxicology of Chronically Infused Epidural Clonidine Â· HCl in Dogs. Fundamental and Applied Toxicology, 1994, 23, 319-335.	1.9	56
88	Long-lasting analgesia via targeted in situ repression of Na _V 1.7 in mice. Science Translational Medicine, 2021, 13, .	5.8	56
89	Capsaicin-evoked prostaglandin E2 release in spinal cord slices: relative effect of cyclooxygenase inhibitors. European Journal of Pharmacology, 1994, 271, 293-299.	1.7	55
90	Lipid rafts in glial cells: role in neuroinflammation and pain processing. Journal of Lipid Research, 2020, 61, 655-666.	2.0	55

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91	Toxicology Evaluation of Drugs Administered via Uncommon Routes: Intranasal, Intraocular, Intrathecal/Intraspinal, and Intra-Articular. International Journal of Toxicology, 2018, 37, 4-27.	0.6	54
92	Toll-like receptor signaling regulates cisplatin-induced mechanical allodynia in mice. Cancer Chemotherapy and Pharmacology, 2014, 73, 25-34.	1.1	52
93	Botulinum toxin blocks mast cells and prevents rosacea like inflammation. Journal of Dermatological Science, 2019, 93, 58-64.	1.0	52
94	Inhibition of Neuroinflammation by AIBP: Spinal Effects upon Facilitated Pain States. Cell Reports, 2018, 23, 2667-2677.	2.9	51
95	Normalization of cholesterol metabolism in spinal microglia alleviates neuropathic pain. Journal of Experimental Medicine, 2021, 218, .	4.2	51
96	Regulation of Spinal Substance P Release by Intrathecal Calcium Channel Blockade. Anesthesiology, 2011, 115, 153-164.	1.3	51
97	Inflammatory hyperalgesia induces essential bioactive lipid production in the spinal cord. Journal of Neurochemistry, 2010, 114, 981-993.	2.1	50
98	Toxicology Profile of NÂ-Methyl-d-aspartate Antagonists Delivered by Intrathecal Infusion in the Canine Model. Anesthesiology, 2008, 108, 938-949.	1.3	50
99	Effects of Intrathecal Ketorolac on Human Experimental Pain. Anesthesiology, 2010, 112, 1216-1224.	1.3	47
100	Preclinical Toxicity Screening of Intrathecal Oxytocin in Rats and Dogs. Anesthesiology, 2014, 120, 951-961.	1.3	46
101	Role of Spinal Cyclooxygenase in Human Postoperative and Chronic Pain. Anesthesiology, 2010, 112, 1225-1233.	1.3	46
102	Role of Meningeal Mast Cells in Intrathecal Morphineâ€“evoked Granuloma Formation. Anesthesiology, 2013, 118, 664-678.	1.3	46
103	Intrathecal Ketorolac in Dogs and Rats. Toxicological Sciences, 2004, 80, 322-334.	1.4	45
104	Validation of a Preclinical Spinal Safety Model. Anesthesiology, 2010, 113, 183-199.	1.3	45
105	The Emerging Role of Spinal Dynorphin in Chronic Pain: A Therapeutic Perspective. Annual Review of Pharmacology and Toxicology, 2016, 56, 511-533.	4.2	45
106	Intravenous Lidocaine. Anesthesia and Analgesia, 1997, 85, 794-796.	1.1	44
107	Inhibition of spinal constitutive NOS-2 by 1400W attenuates tissue injury and inflammation-induced hyperalgesia and spinal p38 activation. European Journal of Neuroscience, 2007, 25, 2964-2972.	1.2	44
108	Intrathecal Clonidine in the Neonatal Rat. Anesthesia and Analgesia, 2012, 115, 450-460.	1.1	44

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109	Central pharmacology of nociceptive transmission. , 2006, , 371-414.		44
110	Release of Prostaglandin E2 and Nitric Oxide from Spinal Microglia Is Dependent on Activation of p38 Mitogen-Activated Protein Kinase. Anesthesia and Analgesia, 2010, 111, 554-560.	1.1	43
111	Pharmacokinetic Analysis of Ziconotide (SNX-111), an Intrathecal N-Type Calcium Channel Blocking Analgesic, Delivered by Bolus and Infusion in the Dog. Neuromodulation, 2012, 15, 508-519.	0.4	43
112	Safety Assessment of Encapsulated Morphine Delivered Epidurally in a Sustained-Release Multivesicular Liposome Preparation in Dogs. Drug Delivery, 2000, 7, 27-36.	2.5	42
113	Semi-Quantitative Real-Time PCR for Pain Research. , 2004, 99, 225-238.		42
114	Origins of antidromic activity in sensory afferent fibers and neurogenic inflammation. Seminars in Immunopathology, 2018, 40, 237-247.	2.8	42
115	Continuous Intrathecal Administration of Short-lasting micro Opioids Remifentanil and Alfentanil in the Rat. Anesthesiology, 1996, 84, 926-935..	1.3	41
116	An Assessment of the Antinociceptive Efficacy of Intrathecal and Epidural Contulakin-G in Rats and Dogs. Anesthesia and Analgesia, 2007, 104, 1505-1513.	1.1	41
117	Behavioral Models of Pain States Evoked by Physical Injury to the Peripheral Nerve. Neurotherapeutics, 2009, 6, 609-619.	2.1	41
118	Spinal action of dermorphin, an extremely potent opioid peptide from frog skin. Brain Research, 1986, 385, 300-304.	1.1	40
119	Development of a canine nociceptive thermal escape model. Journal of Neuroscience Methods, 2008, 168, 88-97.	1.3	40
120	Systematic analysis of rat 12/15â€lipoxygenase enzymes reveals critical role for spinal eLOX3 hepoxilin synthase activity in inflammatory hyperalgesia. FASEB Journal, 2013, 27, 1939-1949.	0.2	40
121	Resting and Evoked Spinal Substance P Release during Chronic Intrathecal Morphine Infusion: Parallels with Tolerance and Dependence. Journal of Pharmacology and Experimental Therapeutics, 2005, 314, 1362-1369.	1.3	39
122	Spinal Neurokinin NK1 Receptor Down-Regulation and Antinociception: Effects of Spinal NK1 Receptor Antisense Oligonucleotides and NK1 Receptor Occupancy. Journal of Neurochemistry, 2002, 70, 688-698.	2.1	38
123	Tissue Injury Models of Persistent Nociception in Rats. , 2004, 99, 25-34.		38
124	Spinal Botulinum Neurotoxin B: Effects on Afferent Transmitter Release and Nociceptive Processing. PLoS ONE, 2011, 6, e19126.	1.1	38
125	Spinal Toll-like receptor signaling and nociceptive processing: Regulatory balance between TIRAP and TRIF cascades mediated by TNF and IFNÎ². Pain, 2013, 154, 733-742.	2.0	37
126	Intrathecal Substance P-Saporin in the Dog. Anesthesiology, 2013, 119, 1163-1177.	1.3	37

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127	Preclinical Insights into the Implementation of Intrathecal Midazolam: A Cautionary Tale. Anesthesia and Analgesia, 2004, 98, 1509-1511.	1.1	36
128	Unintended consequences of COVID-19 safety measures on patients with chronic knee pain forced to defer joint replacement surgery. Pain Reports, 2020, 5, e855.	1.4	35
129	Kinetic and Safety Studies on Intrathecally Infused Recombinant-Methionyl Human Brain-Derived Neurotrophic Factor in Dogs. Fundamental and Applied Toxicology, 1997, 38, 89-100.	1.9	34
130	Basic/Translational Development of Forthcoming Opioid- and Nonopioid-Targeted Pain Therapeutics. Anesthesia and Analgesia, 2017, 125, 1714-1732.	1.1	34
131	Studies on spinal opiate receptor pharmacology. III. Analgetic effects of enkephalin dimers as measured by cutaneous-thermal and visceral-chemical evoked responses. Brain Research, 1985, 337, 209-215.	1.1	32
132	Distribution in Cerebrospinal Fluid, Blood, and Lymph of Epidurally Injected Morphine and Inulin in Dogs. Anesthesia and Analgesia, 1986, 65, 583???592.	1.1	32
133	Botulinum toxin in migraine: Role of transport in trigemino-somatic and trigemino-vascular afferents. Neurobiology of Disease, 2015, 79, 111-122.	2.1	32
134	Eicosanoid Production in the Caudate Nucleus and Dorsal Hippocampus after Forebrain Ischemia: A Microdialysis Study. Journal of Cerebral Blood Flow and Metabolism, 1992, 12, 88-95.	2.4	31
135	Thermal hyperalgesia in rat evoked by intrathecal substance P at multiple stimulus intensities reflects an increase in the gain of nociceptive processing. Neuroscience Letters, 1996, 220, 93-96.	1.0	31
136	Fate of the predominant phospholipid component of DepoFoam^{TM}drug delivery matrix after intrathecal administration of sustained-release encapsulated cytarabine in rats. Drug Delivery, 1998, 5, 143-151.	2.5	30
137	The Effects of Intrathecal and Systemic Gabapentin on Spinal Substance P Release. Anesthesia and Analgesia, 2011, 112, 971-976.	1.1	30
138	Treating osteoarthritis pain: mechanisms of action of acetaminophen, nonsteroidal anti-inflammatory drugs, opioids, and nerve growth factor antibodies. Postgraduate Medicine, 2021, 133, 879-894.	0.9	30
139	Spinal Synthesis and Release of Prostanoids After Peripheral Injury and Inflammation. Advances in Experimental Medicine and Biology, 1999, 469, 401-408.	0.8	30
140	Acetaminophen prevents hyperalgesia in central pain cascade. Neuroscience Letters, 2008, 442, 50-53.	1.0	29
141	Role of Toll-like receptor 4 signaling in mast cell-mediated migraineÂpain pathway. Molecular Pain, 2019, 15, 174480691986784.	1.0	29
142	A preclinical post laminectomy rat model mimics the human post laminectomy syndrome. Journal of Neuroscience Methods, 2004, 137, 283-289.	1.3	27
143	Antinociception and Side Effects of Liposome-Encapsulated Alfentanil After Spinal Delivery in Rats. Anesthesia and Analgesia, 1994, 79, 778???786.	1.1	26
144	Halothane Inhibits T Cell Proliferation and Interleukin-2 Receptor Expression in Rats. Immunopharmacology and Immunotoxicology, 1996, 18, 323-336.	1.1	26

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145	Temperature Dependency of Basal and Evoked Release of Amino Acids and Calcitonin Gene-Related Peptide from Rat Dorsal Spinal Cord. Journal of Neuroscience, 1997, 17, 4406-4414.	1.7	26
146	Role of spinal p38Î± and Î² MAPK in inflammatory hyperalgesia and spinal COX-2 expression. NeuroReport, 2010, 21, 313-317.	0.6	26
147	Systemic and Spinal Analgesic Activity of a Î´-Opioid-Selective Lanthionine Enkephalin Analog. Journal of Pharmacology and Experimental Therapeutics, 2003, 304, 827-832.	1.3	25
148	The need for a journal policy on intrathecal, epidural, and perineural administration of non-approved drugs. Pain, 2010, 149, 417-419.	2.0	25
149	Intrathecal P/Q- and R-type calcium channel blockade of spinal substance P release and c-Fos expression. Neuropharmacology, 2013, 75, 1-8.	2.0	24
150	Effects of Intrathecal SNC80, a Delta Receptor Ligand, on Nociceptive Threshold and Dorsal Horn Substance P Release. Journal of Pharmacology and Experimental Therapeutics, 2013, 347, 258-264.	1.3	24
151	Spinal activity of interleukin 6 mediates myelin basic protein-induced allodynia. Brain, Behavior, and Immunity, 2016, 56, 378-389.	2.0	24
152	Mast Cell Degranulation and Fibroblast Activation in the Morphine-induced Spinal Mass. Anesthesiology, 2019, 131, 132-147.	1.3	24
153	An overview of pathways encoding nociception. Clinical and Experimental Rheumatology, 2017, 35 Suppl 107, 40-46.	0.4	24
154	Retrovirus-Mediated Expression of an Artificial Î²-Endorphin Precursor in Primary Fibroblasts. Journal of Neurochemistry, 2002, 64, 475-481.	2.1	23
155	Characteristics of Distribution of Morphine and Metabolites in Cerebrospinal Fluid and Plasma with Chronic Intrathecal Morphine Infusion in Humans. Anesthesia and Analgesia, 2012, 115, 797-804.	1.1	23
156	K/BxN Serum Transfer Arthritis as a Model of Inflammatory Joint Pain. Methods in Molecular Biology, 2012, 851, 249-260.	0.4	23
157	Primary Hydromorphone-Related Intrathecal Catheter Tip Granulomas: Is There a Role for Dose and Concentration?. Neuromodulation, 2016, 19, 760-769.	0.4	23
158	Intravenous Lidocaine. Anesthesia and Analgesia, 1997, 85, 794-796.	1.1	22
159	Spinal amino acid release and repeated withdrawal in spinal morphine tolerant rats. British Journal of Pharmacology, 2003, 138, 689-697.	2.7	21
160	Reciprocal relationship between membrane type 1 matrix metalloproteinase and the algesic peptides of myelin basic protein contributes to chronic neuropathic pain. Brain, Behavior, and Immunity, 2017, 60, 282-292.	2.0	21
161	Quantitation of endogenous substance P by on-line microcolumn liquid chromatography/continuous-flow fast-atom bombardment mass spectrometry. Rapid Communications in Mass Spectrometry, 1989, 3, 43-46.	0.7	20
162	Intrathecal neurosteroids and a neurosteroid antagonist: Effects on inflammation-evoked thermal hyperalgesia and tactile allodynia. Neuroscience Letters, 2013, 548, 27-32.	1.0	20

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163	Spinal Nicotinic Receptor Expression in Spontaneously Hypertensive Rats. Hypertension, 1996, 28, 1093-1099.	1.3	19
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