

Patrick M. Dougherty

List of Publications by Year in descending order

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137
papers

8,374
citations

31976

53
h-index

49909

87
g-index

139
all docs

139
docs citations

139
times ranked

7333
citing authors

#	ARTICLE	IF	CITATIONS
1	Nociception and Pain: New Roles for Exosomes. <i>Neuroscientist</i> , 2022, 28, 349-363.	3.5	10
2	Dorsal root ganglion toll-like receptor 4 signaling contributes to oxaliplatin-induced peripheral neuropathy. <i>Pain</i> , 2022, 163, 923-935.	4.2	8
3	Methods and protocols for chemotherapy-induced peripheral neuropathy (CIPN) mouse models using paclitaxel. <i>Methods in Cell Biology</i> , 2022, 168, 277-298.	1.1	2
4	Spatial transcriptomics of dorsal root ganglia identifies molecular signatures of human nociceptors. <i>Science Translational Medicine</i> , 2022, 14, eabj8186.	12.4	164
5	Electrophysiological Alterations Driving Pain-Associated Spontaneous Activity in Human Sensory Neuron Somata Parallel Alterations Described in Spontaneously Active Rodent Nociceptors. <i>Journal of Pain</i> , 2022, 23, 1343-1357.	1.4	16
6	The Value of In Vivo Reflectance Confocal Microscopy as an Assessment Tool in Chemotherapy-Induced Peripheral Neuropathy: A Pilot Study. <i>Oncologist</i> , 2022, 27, e671-e680.	3.7	2
7	The μ -Opioid Receptor in Cancer and Its Role in Perineural Invasion: A Short Review and New Evidence. <i>Advanced Biology</i> , 2022, 6, e2200020.	2.5	7
8	Fadu head and neck squamous cell carcinoma induces hyperexcitability of primary sensory neurons in an in vitro coculture model. <i>Pain Reports</i> , 2022, 7, e1012.	2.7	2
9	Cancer-Associated Neurogenesis and Nerve-Cancer Cross-talk. <i>Cancer Research</i> , 2021, 81, 1431-1440.	0.9	84
10	Blockers of Wnt3a, Wnt10a, or β -Catenin Prevent Chemotherapy-Induced Neuropathic Pain In Vivo. <i>Neurotherapeutics</i> , 2021, 18, 601-614.	4.4	14
11	Human cells and networks of pain: Transforming pain target identification and therapeutic development. <i>Neuron</i> , 2021, 109, 1426-1429.	8.1	47
12	Studying human nociceptors: from fundamentals to clinic. <i>Brain</i> , 2021, 144, 1312-1335.	7.6	77
13	Role of innate immunity in chemotherapy-induced peripheral neuropathy. <i>Neuroscience Letters</i> , 2021, 755, 135941.	2.1	7
14	A rat model to investigate quality of recovery after abdominal surgery. <i>Pain Reports</i> , 2021, 6, e943.	2.7	5
15	Chemotherapy-induced peripheral neuropathy in a dish: dorsal root ganglion cells treated in vitro with paclitaxel show biochemical and physiological responses parallel to that seen in vivo. <i>Pain</i> , 2021, 162, 84-96.	4.2	12
16	Persistent and Chronic Postoperative Opioid Use in a Cohort of Patients with Oral Tongue Squamous Cell Carcinoma. <i>Pain Medicine</i> , 2020, 21, 1061-1067.	1.9	17
17	Cranial irradiation induces axon initial segment dysfunction and neuronal injury in the prefrontal cortex and impairs hippocampal coupling. <i>Neuro-Oncology Advances</i> , 2020, 2, vdaa058.	0.7	3
18	ACE2 and SCARF expression in human dorsal root ganglion nociceptors: implications for SARS-CoV-2 virus neurological effects. <i>Pain</i> , 2020, 161, 2494-2501.	4.2	83

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19	Loss of p53 drives neuron reprogramming in head and neck cancer. <i>Nature</i> , 2020, 578, 449-454.	27.8	241
20	Percutaneous Cordotomy for Pain Palliation in Advanced Cancer: A Randomized Clinical Trial Study Protocol. <i>Neurosurgery</i> , 2020, 87, 394-402.	1.1	5
21	Sex-based differences and aging in tactile function loss in persons with type 2 diabetes. <i>PLoS ONE</i> , 2020, 15, e0242199.	2.5	4
22	Somatotopy and Organization of Spinothalamic Tracts in the Human Cervical Spinal Cord. <i>Neurosurgery</i> , 2019, 84, E311-E317.	1.1	10
23	Should we be itching for a CCL2 itch and pain medicine?. <i>Brain, Behavior, and Immunity</i> , 2019, 81, 12-13.	4.1	2
24	Electrophysiological and transcriptomic correlates of neuropathic pain in human dorsal root ganglion neurons. <i>Brain</i> , 2019, 142, 1215-1226.	7.6	198
25	Minimally Invasive Cordotomy for Refractory Cancer Pain: A Randomized Controlled Trial. <i>Oncologist</i> , 2019, 24, e590-e596.	3.7	14
26	Nociceptor Translational Profiling Reveals the Ragulator-Rag GTPase Complex as a Critical Generator of Neuropathic Pain. <i>Journal of Neuroscience</i> , 2019, 39, 393-411.	3.6	95
27	Beyond symptomatic relief for chemotherapy-induced peripheral neuropathy: Targeting the source. <i>Cancer</i> , 2018, 124, 2289-2298.	4.1	115
28	Radiation induces age-dependent deficits in cortical synaptic plasticity. <i>Neuro-Oncology</i> , 2018, 20, 1207-1214.	1.2	20
29	Orally active Epac inhibitor reverses mechanical allodynia and loss of intraepidermal nerve fibers in a mouse model of chemotherapy-induced peripheral neuropathy. <i>Pain</i> , 2018, 159, 884-893.	4.2	38
30	DRG Voltage-Gated Sodium Channel 1.7 Is Upregulated in Paclitaxel-Induced Neuropathy in Rats and in Humans with Neuropathic Pain. <i>Journal of Neuroscience</i> , 2018, 38, 1124-1136.	3.6	173
31	Chemokine CCL2 and its receptor CCR2 in the dorsal root ganglion contribute to oxaliplatin-induced mechanical hypersensitivity. <i>Pain</i> , 2018, 159, 1308-1316.	4.2	58
32	Limited Midline Myelotomy for Intractable Visceral Pain: Surgical Techniques and Outcomes. <i>Neurosurgery</i> , 2018, 83, 783-789.	1.1	18
33	Ectopic Spontaneous Afferent Activity and Neuropathic Pain. <i>Neurosurgery</i> , 2018, 65, 49-54.	1.1	18
34	An updated understanding of the mechanisms involved in chemotherapy-induced neuropathy. <i>Pain Management</i> , 2018, 8, 363-375.	1.5	58
35	Trial designs for chemotherapy-induced peripheral neuropathy prevention. <i>Neurology</i> , 2018, 91, 403-413.	1.1	63
36	Neurochemistry of Somatosensory and Pain Processing., 2018, , 11-20.e2.		1

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37	Morphological and Physiological Plasticity of Spinal Lamina II GABA Neurons Is Induced by Sciatic Nerve Chronic Constriction Injury in Mice. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 143.	3.7	21
38	Subclinical Peripheral Neuropathy in Patients with Head and Neck Cancer: A Quantitative Sensory Testing (QST) Study. <i>Pain Physician</i> , 2018, 21, E419-E427.	0.4	6
39	Postoperative MRI Evaluation of a Radiofrequency Cordotomy Lesion for Intractable Cancer Pain. <i>American Journal of Neuroradiology</i> , 2017, 38, 835-839.	2.4	7
40	Dorsal root ganglion neurons become hyperexcitable and increase expression of voltage-gated T-type calcium channels (Cav3.2) in paclitaxel-induced peripheral neuropathy. <i>Pain</i> , 2017, 158, 417-429.	4.2	137
41	Disease burden and pain in obese cancer patients with chemotherapy-induced peripheral neuropathy. <i>Supportive Care in Cancer</i> , 2017, 25, 1873-1879.	2.2	29
42	Psychometric study of the pain drawing. <i>Journal of Applied Biobehavioral Research</i> , 2017, 22, e12095.	2.0	3
43	AAPT Diagnostic Criteria for Chronic Cancer Pain Conditions. <i>Journal of Pain</i> , 2017, 18, 233-246.	1.4	42
44	Human Thalamic Somatosensory Nucleus (Ventral Caudal, Vc) as a Locus for Stimulation by INPUTS from Tactile, Noxious and Thermal Sensors on an Active Prosthesis. <i>Sensors</i> , 2017, 17, 1197.	3.8	12
45	Use of Spinal Cord Diffusion Tensor Imaging to Quantify Neural Ablation and Evaluate Outcome after Percutaneous Cordotomy for Intractable Cancer Pain. <i>Stereotactic and Functional Neurosurgery</i> , 2017, 95, 34-39.	1.5	7
46	Angiotensin-Converting Enzyme Inhibitors and Angiotensin Receptor Blockers Modulate the Function of Myelinated Fibers after Chemotherapy: A Quantitative Sensory Testing Study. <i>Pain Physician</i> , 2017, 20, 281-292.	0.4	7
47	Is Chemotherapy-induced Peripheral Neuropathy More Than Just a Peripheral Nervous System Disorder?. <i>Anesthesiology</i> , 2016, 124, 992-993.	2.5	5
48	Relationship of membrane properties, spike burst responses, laminar location, and functional class of dorsal horn neurons recorded in vitro. <i>Journal of Neurophysiology</i> , 2016, 116, 1137-1151.	1.8	12
49	Prechemotherapy Touch Sensation Deficits Predict Oxaliplatin-Induced Neuropathy in Patients with Colorectal Cancer. <i>Oncology</i> , 2016, 90, 127-135.	1.9	25
50	Comparison of oxaliplatin and paclitaxel-induced neuropathy (Alliance A151505). <i>Supportive Care in Cancer</i> , 2016, 24, 5059-5068.	2.2	67
51	CD8 ⁺ T Cells and Endogenous IL-10 Are Required for Resolution of Chemotherapy-Induced Neuropathic Pain. <i>Journal of Neuroscience</i> , 2016, 36, 11074-11083.	3.6	164
52	Dorsal Root Ganglion Infiltration by Macrophages Contributes to Paclitaxel Chemotherapy-Induced Peripheral Neuropathy. <i>Journal of Pain</i> , 2016, 17, 775-786.	1.4	237
53	Painful Hands and Feet After Cancer Treatment: Inflammation Affecting the Mind-Body Connection. <i>Journal of Clinical Oncology</i> , 2016, 34, 649-652.	1.6	7
54	Higher Stem Cell Dose Infusion after Intensive Chemotherapy Does Not Improve Symptom Burden in Older Patients with Multiple Myeloma and Amyloidosis. <i>Biology of Blood and Marrow Transplantation</i> , 2016, 22, 226-231.	2.0	15

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55	Chemotherapy-Induced Peripheral Neuropathy: A Challenge for Clinicians. <i>Oncology</i> , 2016, 30, 1030, C3.	0.5	1
56	Basic science and clinical management of painful and non-painful chemotherapy-related neuropathy. <i>Gynecologic Oncology</i> , 2015, 136, 453-459.	1.4	71
57	MAPK signaling downstream to TLR4 contributes to paclitaxel-induced peripheral neuropathy. <i>Brain, Behavior, and Immunity</i> , 2015, 49, 255-266.	4.1	105
58	Measuring Therapy-Induced Peripheral Neuropathy: Preliminary Development and Validation of the Treatment-Induced Neuropathy Assessment Scale. <i>Journal of Pain</i> , 2015, 16, 1032-1043.	1.4	23
59	Mechanisms involved in the development of chemotherapy-induced neuropathy. <i>Pain Management</i> , 2015, 5, 285-296.	1.5	131
60	The Cancer Chemotherapeutic Paclitaxel Increases Human and Rodent Sensory Neuron Responses to TRPV1 by Activation of TLR4. <i>Journal of Neuroscience</i> , 2015, 35, 13487-13500.	3.6	190
61	Spinal astrocyte gap junction and glutamate transporter expression contributes to a rat model of bortezomib-induced peripheral neuropathy. <i>Neuroscience</i> , 2015, 285, 1-10.	2.3	36
62	Peripheral neuropathic pain: signs, symptoms, mechanisms, and causes: are they linked?. <i>British Journal of Anaesthesia</i> , 2015, 114, 361-363.	3.4	18
63	A Quantitative Sensory Analysis of Peripheral Neuropathy in Colorectal Cancer and Its Exacerbation by Oxaliplatin Chemotherapy. <i>Cancer Research</i> , 2014, 74, 5955-5962.	0.9	57
64	Subclinical Peripheral Neuropathy in Patients With Multiple Myeloma Before Chemotherapy Is Correlated With Decreased Fingertip Innervation Density. <i>Journal of Clinical Oncology</i> , 2014, 32, 3156-3162.	1.6	37
65	Toll-Like Receptor 4 Signaling Contributes to Paclitaxel-Induced Peripheral Neuropathy. <i>Journal of Pain</i> , 2014, 15, 712-725.	1.4	182
66	Altered discharges of spinal neurons parallel the behavioral phenotype shown by rats with bortezomib related chemotherapy induced peripheral neuropathy. <i>Brain Research</i> , 2014, 1574, 6-13.	2.2	18
67	Astrocytes, but not microglia, are activated in oxaliplatin and bortezomib-induced peripheral neuropathy in the rat. <i>Neuroscience</i> , 2014, 274, 308-317.	2.3	126
68	Enhanced Excitability of Primary Sensory Neurons and Altered Gene Expression of Neuronal Ion Channels in Dorsal Root Ganglion in Paclitaxel-induced Peripheral Neuropathy. <i>Anesthesiology</i> , 2014, 120, 1463-1475.	2.5	123
69	Subclinical pretreatment sensory deficits appear to predict the development of pain and numbness in patients with multiple myeloma undergoing chemotherapy. <i>Cancer Chemotherapy and Pharmacology</i> , 2013, 71, 1531-1540.	2.3	15
70	Persistent chemoneuropathy in patients receiving the plant alkaloids paclitaxel and vincristine. <i>Cancer Chemotherapy and Pharmacology</i> , 2013, 71, 619-626.	2.3	126
71	Induction of Monocyte Chemoattractant Protein-1 (MCP-1) and Its Receptor CCR2 in Primary Sensory Neurons Contributes to Paclitaxel-Induced Peripheral Neuropathy. <i>Journal of Pain</i> , 2013, 14, 1031-1044.	1.4	122
72	An Overview of Animal Models of Pain: Disease Models and Outcome Measures. <i>Journal of Pain</i> , 2013, 14, 1255-1269.	1.4	318

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73	Dynamic effects of TNF- α on synaptic transmission in mice over time following sciatic nerve chronic constriction injury. <i>Journal of Neurophysiology</i> , 2013, 110, 1663-1671.	1.8	35
74	Spinal Astrocyte Gap Junctions Contribute to Oxaliplatin-Induced Mechanical Hypersensitivity. <i>Journal of Pain</i> , 2013, 14, 205-214.	1.4	111
75	Subclinical Peripheral Neuropathy Is a Common Finding in Colorectal Cancer Patients Prior to Chemotherapy. <i>Clinical Cancer Research</i> , 2012, 18, 3180-3187.	7.0	55
76	Minocycline blocks lipopolysaccharide induced hyperalgesia by suppression of microglia but not astrocytes. <i>Neuroscience</i> , 2012, 221, 214-224.	2.3	90
77	Two pains at once: How can you tell which is worse?. <i>Neuroscience Letters</i> , 2012, 513, 112-113.	2.1	0
78	Evidence That Spinal Astrocytes but Not Microglia Contribute to the Pathogenesis of Paclitaxel-Induced Painful Neuropathy. <i>Journal of Pain</i> , 2012, 13, 293-303.	1.4	173
79	Wireless peripheral nerve stimulation increases pain threshold in two neuropathic rat models. <i>Experimental Neurology</i> , 2012, 235, 621-626.	4.1	6
80	Follow-Up Psychophysical Studies in Bortezomib-Related Chemoneuropathy Patients. <i>Journal of Pain</i> , 2011, 12, 1017-1024.	1.4	76
81	Acute inhibition of signalling phenotype of spinal GABAergic neurons by tumour necrosis factor- α . <i>Journal of Physiology</i> , 2011, 589, 4511-4526.	2.9	27
82	Role of nuclear factor- κ B-mediated inflammatory pathways in cancer-related symptoms and their regulation by nutritional agents. <i>Experimental Biology and Medicine</i> , 2011, 236, 658-671.	2.4	131
83	Anatomy and physiology of somatosensory and pain processing. , 2011, , 1-7.		4
84	Neurochemistry of somatosensory and pain processing. , 2011, , 8-15.		3
85	A p38 Mitogen-Activated Protein Kinase-Dependent Mechanism of Disinhibition in Spinal Synaptic Transmission Induced by Tumor Necrosis Factor- α . <i>Journal of Neuroscience</i> , 2010, 30, 12844-12855.	3.6	101
86	Oral Poly(ADP-Ribose) Polymerase-1 Inhibitor BSI-401 Has Antitumor Activity and Synergizes with Oxaliplatin against Pancreatic Cancer, Preventing Acute Neurotoxicity. <i>Clinical Cancer Research</i> , 2009, 15, 6367-6377.	7.0	39
87	Synaptically Evoked Glutamate Transporter Currents in Spinal Dorsal Horn Astrocytes. <i>Molecular Pain</i> , 2009, 5, 1744-8069-5-36.	2.1	25
88	Plasticity in Expression of the Glutamate Transporters GLT-1 and GLAST in Spinal Dorsal Horn Glial Cells following Partial Sciatic Nerve Ligation. <i>Molecular Pain</i> , 2009, 5, 1744-8069-5-15.	2.1	102
89	The effects of thalidomide and minocycline on taxol-induced hyperalgesia in rats. <i>Brain Research</i> , 2008, 1229, 100-110.	2.2	98
90	Behavioral and electrophysiological studies in rats with cisplatin-induced chemoneuropathy. <i>Brain Research</i> , 2008, 1230, 91-98.	2.2	60

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91	Spinal injection of IL-2 or IL-15 alters mechanical and thermal withdrawal thresholds in rats. <i>Neuroscience Letters</i> , 2008, 437, 45-49.	2.1	15
92	Ghrelin Prevents Cisplatin-Induced Mechanical Hyperalgesia and Cachexia. <i>Endocrinology</i> , 2008, 149, 455-460.	2.8	112
93	Quantitative Sensory Findings in Patients With Bortezomib-Induced Pain. <i>Journal of Pain</i> , 2007, 8, 296-306.	1.4	141
94	Dysfunction in Multiple Primary Afferent Fiber Subtypes Revealed By Quantitative Sensory Testing in Patients with Chronic Vincristine-Induced Pain. <i>Journal of Pain and Symptom Management</i> , 2007, 33, 166-179.	1.2	95
95	Effect of Fenoldopam on Ischemia/Reperfusion-Induced Apoptosis. <i>Renal Failure</i> , 2006, 28, 337-344.	2.1	14
96	Neurochemistry of Somatosensory and Pain Processing. , 2005, , 7-14.		0
97	Spinal glial glutamate transporters downregulate in rats with taxol-induced hyperalgesia. <i>Neuroscience Letters</i> , 2005, 386, 18-22.	2.1	92
98	Response properties of dorsal root reflexes in cutaneous C fibers before and after intradermal capsaicin injection in rats. <i>Neuroscience</i> , 2005, 132, 823-831.	2.3	20
99	A Cytokine-Based Neuroimmunologic Mechanism of Cancer-Related Symptoms. <i>NeuroImmunoModulation</i> , 2004, 11, 279-292.	1.8	266
100	Pain Encoding in the Human Forebrain: Binary and Analog Exteroceptive Channels. <i>Journal of Neuroscience</i> , 2004, 24, 6540-6544.	3.6	32
101	Spinal cord stimulation relieves chemotherapy-induced pain: a clinical case report. <i>Journal of Pain and Symptom Management</i> , 2004, 27, 72-78.	1.2	88
102	Cyclooxygenase inhibitors and thalidomide ameliorate vincristine-induced hyperalgesia in rats. <i>Cancer Chemotherapy and Pharmacology</i> , 2004, 54, 391-397.	2.3	16
103	Taxol-induced sensory disturbance is characterized by preferential impairment of myelinated fiber function in cancer patients. <i>Pain</i> , 2004, 109, 132-142.	4.2	317
104	Sensitization of dorsal root reflexes in vitro and hyperalgesia in neonatal rats produced by capsaicin. <i>Neuroscience</i> , 2004, 126, 743-751.	2.3	11
105	Are the symptoms of cancer and cancer treatment due to a shared biologic mechanism?. <i>Cancer</i> , 2003, 97, 2919-2925.	4.1	460
106	Physiological changes in primate somatosensory thalamus induced by deafferentation are dependent on the spinal funiculi that are sectioned and time following injury. <i>Neuroscience</i> , 2003, 116, 1149-1160.	2.3	33
107	Central sensitization and cutaneous hyperalgesia. <i>Seminars in Pain Medicine</i> , 2003, 1, 121-131.	0.4	4
108	Central nervous system mechanisms of pain. , 2002, , 888-905.		10

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109	Gabapentin produces dose-dependent antinociception in the orofacial formalin test in the rat. <i>Regional Anesthesia and Pain Medicine</i> , 2002, 27, 277-283.	2.3	13
110	Functional plasticity in primate somatosensory thalamus following chronic lesion of the ventral lateral spinal cord. <i>Neuroscience</i> , 2000, 101, 393-401.	2.3	92
111	Mechanical and thermal hypersensitivity develops following kainate lesion of the ventral posterior lateral thalamus in rats. <i>Neuroscience Letters</i> , 2000, 290, 79-83.	2.1	27
112	Characterization of baroreceptor-related neurons in the monkey insular cortex. <i>Brain Research</i> , 1998, 796, 303-306.	2.2	75
113	Distribution of cardiovascular related cells within the human thalamus. <i>Clinical Autonomic Research</i> , 1998, 8, 173-179.	2.5	19
114	Facilitation of responses to AMPA but not kainate by cyclothiazide in primate somatosensory thalamus. <i>Neuroscience Letters</i> , 1998, 246, 17-20.	2.1	6
115	New version of the thalamic disinhibition hypothesis may explain some clinical features of central pain syndromes. <i>Pain Forum</i> , 1998, 7, 20-23.	1.1	1
116	Hemispatial Somatosensory and Motor Extinction after Stereotactic Thalamic Lesions. <i>Neurocase</i> , 1998, 4, 21-34.	0.6	7
117	Physiology of Pain. , 1997, , 3-21.		1
118	Infusion of substance P or neurokinin A by microdialysis alters responses of primate spinothalamic tract neurons to cutaneous stimuli and to iontophoretically released excitatory amino acids. <i>Pain</i> , 1995, 61, 411-425.	4.2	37
119	A population of cells in the human thalamic principal sensory nucleus respond to painful mechanical stimuli. <i>Neuroscience Letters</i> , 1994, 180, 46-50.	2.1	71
120	GFAP Expression in Lumbar Spinal Cord of Naive and Neuropathic Rats Treated with MK-801. <i>Experimental Neurology</i> , 1994, 129, 237-243.	4.1	122
121	The sensation of angina can be evoked by stimulation of the human thalamus. <i>Pain</i> , 1994, 59, 119-125.	4.2	91
122	The endogenous lectin RL-29 is transynaptically induced in dorsal horn neurons following peripheral neuropathy in the rat. <i>Brain Research</i> , 1993, 620, 64-71.	2.2	13
123	Quantitative analysis of substance P and calcitonin gene-related peptide immunohistochemical staining in the dorsal horn of neuropathic MK-801-treated rats. <i>Brain Research</i> , 1993, 607, 205-214.	2.2	107
124	Is large myelinated fiber loss associated with hyperalgesia in a model of experimental peripheral neuropathy in the rat?. <i>Pain</i> , 1993, 52, 233-242.	4.2	124
125	Noninvasive subthreshold auricular electrical stimulation reduces the severity of precipitated and abrupt opiate withdrawal. <i>Brain Research Bulletin</i> , 1993, 31, 491-492.	3.0	0
126	Reply to D. Nuytten and colleagues. <i>Pain</i> , 1993, 54, 362-363.	4.2	3

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127	Does sensitization of responses to excitatory amino acids underlie the psychophysical reports of two modalities of increased sensitivity in zones of secondary hyperalgesia?. <i>APS Journal</i> , 1993, 2, 276-279.	0.2	5
128	Differential influence of local anesthetic upon two models of experimentally induced peripheral mononeuropathy in the rat. <i>Brain Research</i> , 1992, 570, 109-115.	2.2	138
129	Neuroma formation and numbers of axons in a rat model of experimental peripheral neuropathy. <i>Neuroscience Letters</i> , 1991, 131, 88-92.	2.1	135
130	Changes in lectin, GAP-43 and neuropeptide staining in the rat superficial dorsal horn following experimental peripheral neuropathy. <i>Neuroscience Letters</i> , 1991, 131, 249-252.	2.1	130
131	Microiontophoretic application of muramyl-dipeptide upon single cortical, hippocampal and hypothalamic neurons in rats. <i>Neuropharmacology</i> , 1990, 29, 973-981.	4.1	7
132	Muramyl-dipeptide, a macrophage-derived cytokine, alters neuronal activity in hypothalamus and hippocampus but not in the dorsal raphe/periaqueductal gray of rats. <i>Journal of Neuroimmunology</i> , 1990, 28, 201-208.	2.3	15
133	Trans-cranial electrical stimulation attenuates abrupt morphine withdrawal in rats assayed by remote computerized quantification of multiple motor behavior indices. <i>European Journal of Pharmacology</i> , 1990, 175, 187-195.	3.5	20
134	The immune system and opiate withdrawal. <i>International Journal of Immunopharmacology</i> , 1989, 11, 371-375.	1.1	10
135	Cyclosporine affects central nervous system opioid activity via direct and indirect means. <i>Brain, Behavior, and Immunity</i> , 1988, 2, 242-253.	4.1	19
136	Evidence of an immune system to brain communication axis that affects central opioid functions: Muramyl peptides attenuate opiate withdrawal. <i>European Journal of Pharmacology</i> , 1987, 141, 253-260.	3.5	20
137	Participation of lymphoid cells in the withdrawal syndrome of opiate dependent rats. <i>Life Sciences</i> , 1987, 40, 1589-1593.	4.3	8