Martin Koltzenburg

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2003401/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Impaired Nociception and Pain Sensation in Mice Lacking the Capsaicin Receptor. Science, 2000, 288, 306-313.	6.0	3,156
2	Temporal difference models describe higher-order learning in humans. Nature, 2004, 429, 664-667.	13.7	557
3	Chemotherapyâ€induced peripheral neurotoxicity: A critical analysis. Ca-A Cancer Journal for Clinicians, 2013, 63, 419-437.	157.7	547
4	Nociceptor modulated central sensitization causes mechanical hyperalgesia in acute chemogenic and chronic neuropathic pain. Brain, 1994, 117, 579-591.	3.7	486
5	Silent embolism in diagnostic cerebral angiography and neurointerventional procedures: a prospective study. Lancet, The, 1999, 354, 1594-1597.	6.3	484
6	Activation of unmyelinated afferent fibres by mechanical stimuli and inflammation of the urinary bladder in the cat Journal of Physiology, 1990, 425, 545-562.	1.3	480
7	Microarray analysis after RNA amplification can detect pronounced differences in gene expression using limma. BMC Genomics, 2006, 7, 252.	1.2	480
8	Dynamic and static components of mechanical hyperalgesia in human hairy skin. Pain, 1992, 51, 207-219.	2.0	464
9	Towards a mechanism-based classification of pain?. Pain, 1998, 77, 227-229.	2.0	461
10	Axoplasmic Importins Enable Retrograde Injury Signaling in Lesioned Nerve. Neuron, 2003, 40, 1095-1104.	3.8	459
11	Does the right side know what the left is doing?. Trends in Neurosciences, 1999, 22, 122-127.	4.2	448
12	Molecular mechanisms of cancer pain. Nature Reviews Cancer, 2002, 2, 201-209.	12.8	417
13	Opponent appetitive-aversive neural processes underlie predictive learning of pain relief. Nature Neuroscience, 2005, 8, 1234-1240.	7.1	384
14	Complex Regional Pain Syndromes: Guidelines for Therapy. Clinical Journal of Pain, 1998, 14, 155-166.	0.8	346
15	Receptive Properties of Mouse Sensory Neurons Innervating Hairy Skin. Journal of Neurophysiology, 1997, 78, 1841-1850.	0.9	330
16	Responsiveness and functional attributes of electrically localized terminals of cutaneous C-fibers in vivo and in vitro. Journal of Neurophysiology, 1992, 68, 581-595.	0.9	289
17	Antagonism of Nerve Growth Factor-TrkA Signaling and the Relief of Pain. Anesthesiology, 2011, 115, 189-204.	1.3	285
18	ProTx-II, a Selective Inhibitor of Na _V 1.7 Sodium Channels, Blocks Action Potential Propagation in Nociceptors. Molecular Pharmacology, 2008, 74, 1476-1484.	1.0	280

#	Article	IF	CITATIONS
19	Histone H2AX-dependent GABAA receptor regulation of stem cell proliferation. Nature, 2008, 451, 460-464.	13.7	255
20	The functional development of descending inhibitory pathways in the dorsolateral funiculus of the newborn rat spinal cord. Developmental Brain Research, 1986, 24, 261-270.	2.1	253
21	Ontogeny of peptide- and amine-containing neurones in motor, sensory, and autonomic regions of rat and human spinal cord, dorsal root ganglia, and rat skin. Journal of Comparative Neurology, 1987, 266, 332-359.	0.9	250
22	Nociceptors Lacking TRPV1 and TRPV2 Have Normal Heat Responses. Journal of Neuroscience, 2004, 24, 6410-6415.	1.7	242
23	Noradrenaline-evoked pain in neuralgia. Pain, 1995, 63, 11-20.	2.0	221
24	Specific Subtypes of Cutaneous Mechanoreceptors Require Neurotrophin-3 Following Peripheral Target Innervation. Neuron, 1996, 16, 287-295.	3.8	213
25	Peripheral nerve damage associated with administration of taxanes in patients with cancer. Critical Reviews in Oncology/Hematology, 2008, 66, 218-228.	2.0	211
26	Peripheral administration of nerve growth factor in the adult rat produces a thermal hyperalgesia that requires the presence of sympathetic post-ganglionic neurones. Pain, 1995, 63, 109-115.	2.0	209
27	Differential ability of human cutaneous nociceptors to signal mechanical pain and to produce vasodilatation. Journal of Neuroscience, 1994, 14, 1756-1765.	1.7	199
28	TRP Vanilloid 2 Knock-Out Mice Are Susceptible to Perinatal Lethality But Display Normal Thermal and Mechanical Nociception. Journal of Neuroscience, 2011, 31, 11425-11436.	1.7	193
29	Emergence of Functional Sensory Subtypes as Defined by Transient Receptor Potential Channel Expression. Journal of Neuroscience, 2007, 27, 2435-2443.	1.7	184
30	Neutralization of endogenous NGF prevents the sensitization of nociceptors supplying inflamed skin. European Journal of Neuroscience, 1999, 11, 1698-1704.	1.2	177
31	The nociceptor sensitization by bradykinin does not depend on sympathetic neurons. Neuroscience, 1992, 46, 465-473.	1.1	174
32	Itching for an explanation. Trends in Neurosciences, 1992, 15, 497-501.	4.2	173
33	A role for BDNF in mechanosensation. Nature Neuroscience, 1998, 1, 42-46.	7.1	168
34	Phenytoin for neuroprotection in patients with acute optic neuritis: a randomised, placebo-controlled, phase 2 trial. Lancet Neurology, The, 2016, 15, 259-269.	4.9	168
35	MRI of peripheral nerve degeneration and regeneration: correlation with electrophysiology and histology. Experimental Neurology, 2004, 188, 171-177.	2.0	161
36	Modulation of pain processing in hyperalgesia by cognitive demand. NeuroImage, 2005, 27, 59-69.	2.1	147

#	Article	IF	CITATIONS
37	Myelinated primary afferents of the sacral spinal cord responding to slow filling and distension of the cat urinary bladder Journal of Physiology, 1993, 463, 449-460.	1.3	141
38	Visceral pain. British Journal of Anaesthesia, 1995, 75, 132-144.	1.5	135
39	Endogenous nerve growth factor regulates the sensitivity of nociceptors in the adult rat. European Journal of Neuroscience, 1998, 10, 1282-1291.	1.2	127
40	A novel type of unmyelinated chemosensitive nociceptor in the acutely inflamed urinary bladder. Agents and Actions, 1988, 25, 219-221.	0.7	126
41	Brain Damage After Coronary Artery Bypass Grafting. Archives of Neurology, 2002, 59, 1090.	4.9	123
42	The role of the capsaicin receptor TRPV1 and acid-sensing ion channels (ASICS) in proton sensitivity of subpopulations of primary nociceptive neurons in rats and mice. Neuroscience, 2006, 139, 699-709.	1.1	113
43	Many cold sensitive peripheral neurons of the mouse do not express TRPM8 or TRPA1. Cell Calcium, 2007, 41, 331-342.	1.1	113
44	A Novel Prion Disease Associated with Diarrhea and Autonomic Neuropathy. New England Journal of Medicine, 2013, 369, 1904-1914.	13.9	113
45	The boundary cap: a source of neural crest stem cells that generate multiple sensory neuron subtypes. Development (Cambridge), 2005, 132, 2623-2632.	1.2	112
46	Increase in NGF content and nerve fiber sprouting in human allergic contact eczema. Cell and Tissue Research, 2000, 302, 31-37.	1.5	111
47	Receptive properties of sacral primary afferent neurons supplying the colon. Journal of Neurophysiology, 1991, 65, 1067-1077.	0.9	109
48	Uncertainty Increases Pain: Evidence for a Novel Mechanism of Pain Modulation Involving the Periaqueductal Gray. Journal of Neuroscience, 2013, 33, 5638-5646.	1.7	109
49	Novel classes of nociceptors: beyond Sherrington. Trends in Neurosciences, 1990, 13, 199-201.	4.2	107
50	On the function of spinal primary afferent fibres supplying colon and urinary bladder. Journal of the Autonomic Nervous System, 1990, 30, S89-S96.	1.9	106
51	Glutamate-induced excitation and sensitization of nociceptors in rat glabrous skin. Pain, 2001, 89, 187-198.	2.0	106
52	Muscle magnetic resonance imaging of denervation and reinnervation: correlation with electrophysiology and histology. Experimental Neurology, 2004, 185, 254-261.	2.0	105
53	Activation of unmyelinated afferents in chronically lesioned nerves by adrenaline and excitation of sympathetic efferents in the cat. Neuroscience Letters, 1987, 82, 35-40.	1.0	101
54	Receptive properties of myelinated primary afferents innervating the inflamed urinary bladder of the cat. Journal of Neurophysiology, 1993, 69, 395-405.	0.9	100

MARTIN KOLTZENBURG

#	Article	IF	CITATIONS
55	In vitro and in vivo differentiation of boundary cap neural crest stem cells into mature Schwann cells. Experimental Neurology, 2006, 198, 438-449.	2.0	100
56	Overexpression of Nerve Growth Factor in Skin Selectively Affects the Survival and Functional Properties of Nociceptors. Journal of Neuroscience, 1999, 19, 8509-8516.	1.7	95
57	Heparin and Air Filters Reduce Embolic Events Caused by Intra-Arterial Cerebral Angiography. Circulation, 2004, 110, 2210-2215.	1.6	95
58	Localization of ionotropic glutamate receptors in peripheral axons of human skin. Neuroscience Letters, 2000, 283, 149-152.	1.0	93
59	Sequential MR imaging of denervated muscle: experimental study. American Journal of Neuroradiology, 2002, 23, 1427-31.	1.2	92
60	An ENU-induced mutation in mouse glycyl-tRNA synthetase (GARS) causes peripheral sensory and motor phenotypes creating a model of Charcot-Marie-Tooth type 2D peripheral neuropathy. DMM Disease Models and Mechanisms, 2009, 2, 359-373.	1.2	91
61	Loss of Distal Axons and Sensory Merkel Cells and Features Indicative of Muscle Denervation in Hindlimbs of P0-Deficient Mice. Journal of Neuroscience, 1999, 19, 6058-6067.	1.7	86
62	Nerve growth factor evokes hyperalgesia in mice lacking the low-affinity neurotrophin receptor p75. Neuroscience Letters, 1998, 255, 87-90.	1.0	85
63	Refined exercise testing can aid dnaâ€based diagnosis in muscle channelopathies. Annals of Neurology, 2011, 69, 328-340.	2.8	85
64	Analysis of Cutaneous Sensory Neurons in Transgenic Mice Lacking the Low Affinity Neurotrophin Receptor p75. European Journal of Neuroscience, 1997, 9, 18-28.	1.2	83
65	The changing role of primary afferent neurones in pain. Pain, 1990, 43, 269-272.	2.0	81
66	Plasma extravasation in the rat urinary bladder following mechanical, electrical and chemical stimuli: evidence for a new population of chemosensitive primary sensory afferents. Neuroscience Letters, 1986, 72, 352-356.	1.0	80
67	Neural Mechanisms of Cutaneous Nociceptive Pain. Clinical Journal of Pain, 2000, 16, S131-S138.	0.8	76
68	Neuropathic pain. Current Opinion in Neurology, 2001, 14, 641-647.	1.8	75
69	The changing sensitivity in the life of the nociceptor. Pain, 1999, 82, S93-S102.	2.0	74
70	A novel technique for the evaluation of mechanical pain and hyperalgesia. Pain, 1991, 46, 81-87.	2.0	73
71	Case report Man-in-the-barrel syndrome caused by cervical spinal cord infarction. Acta Neurologica Scandinavica, 1998, 97, 417-419.	1.0	72
72	Neurotrophin 4 Is Required for the Survival of a Subclass of Hair Follicle Receptors. Journal of Neuroscience, 1998, 18, 7040-7046.	1.7	71

#	Article	IF	CITATIONS
73	Imaging of peripheral nerve lesions. Current Opinion in Neurology, 2004, 17, 621-626.	1.8	70
74	Painful neuropathies. Current Opinion in Neurology, 1998, 11, 515-521.	1.8	70
75	The Low-Affinity Neurotrophin Receptor p75 Regulates the Function But Not the Selective Survival of Specific Subpopulations of Sensory Neurons. Journal of Neuroscience, 1997, 17, 4398-4405.	1.7	69
76	The functional expression of mu opioid receptors on sensory neurons is developmentally regulated; morphine analgesia is less selective in the neonate. Pain, 2004, 111, 38-50.	2.0	68
77	The Rabies Virus Glycoprotein Receptor p75 ^{NTR} Is Not Essential for Rabies Virus Infection. Journal of Virology, 2007, 81, 13622-13630.	1.5	66
78	Kidins220/ARMS mediates the integration of the neurotrophin and VEGF pathways in the vascular and nervous systems. Cell Death and Differentiation, 2012, 19, 194-208.	5.0	62
79	The ability of humans to localise noxious stimuli. Neuroscience Letters, 1993, 150, 219-222.	1.0	61
80	Differential sensitivity of three experimental pain models in detecting the analgesic effects of transdermal fentanyl and buprenorphine. Pain, 2006, 126, 165-174.	2.0	61
81	Functional reinnervation of the vasculature of the adult cat paw pad by axons originally innervating vessels in hairy skin. Neuroscience, 1995, 67, 245-252.	1.1	59
82	Nerve growth factor regulates the expression of bradykinin binding sites on adult sensory neurons via the neurotrophin receptor p75. Neuroscience, 1998, 83, 161-168.	1.1	59
83	c-Jun activation in Schwann cells protects against loss of sensory axons in inherited neuropathy. Brain, 2014, 137, 2922-2937.	3.7	59
84	Selective degeneration of sudomotor fibers in Ross syndrome and successful treatment of compensatory hyperhidrosis with botulinum toxin. , 1998, 21, 1790-1793.		56
85	MRI in isolated sixth nerve palsies. Neuroradiology, 2001, 43, 742-745.	1.1	56
86	Changes of copper-transporting proteins and ceruloplasmin in the lentiform nuclei in primary adult-onset dystonia. Annals of Neurology, 2000, 47, 827-830.	2.8	54
87	Short-interval intracortical inhibition: Comparison between conventional and threshold-tracking techniques. Brain Stimulation, 2018, 11, 806-817.	0.7	51
88	Postnatal loss of Merkel cells, but not of slowly adapting mechanoreceptors in mice lacking the neurotrophin receptor p75. European Journal of Neuroscience, 1999, 11, 3963-3969.	1.2	50
89	In vivo assessment of HCN channel current (<i>I</i> _h) in human motor axons. Muscle and Nerve, 2010, 41, 247-256.	1.0	50
90	Kidins220/ARMS is an essential modulator of cardiovascular and nervous system development. Cell Death and Disease, 2011, 2, e226-e226.	2.7	50

#	Article	IF	CITATIONS
91	The enigmatic role of the sympathetic nervous system in chronic pain. Trends in Pharmacological Sciences, 1991, 12, 399-402.	4.0	43
92	Cold-sensitive, menthol-insensitive neurons in the murine sympathetic nervous system. NeuroReport, 2004, 15, 1399-1403.	0.6	39
93	Magnetic resonance imaging of skeletal muscle. Current Opinion in Neurology, 2007, 20, 595-599.	1.8	34
94	Receptive Properties of Embryonic Chick Sensory Neurons Innervating Skin. Journal of Neurophysiology, 1997, 78, 2560-2568.	0.9	32
95	Asymmetry and time-course of cutaneous sympathetic reflex responses following sustained excitation of chemosensitive nociceptors in humans. Journal of the Autonomic Nervous System, 1996, 57, 63-72.	1.9	31
96	Inner tegument proteins of Herpes Simplex Virus are sufficient for intracellular capsid motility in neurons but not for axonal targeting. PLoS Pathogens, 2017, 13, e1006813.	2.1	31
97	Dichotomizing unmyelinated afferents supplying pelvic viscera and perineum are rare in the sacral segments of the cat. Neuroscience Letters, 1988, 94, 119-124.	1.0	30
98	No further loss of dorsal root ganglion cells after axotomy in p75 neurotrophin receptor knockout mice. Journal of Comparative Neurology, 2003, 459, 242-250.	0.9	29
99	Potential risks of iatrogenic complications of nerve conduction studies (NCS) and electromyography (EMG). Clinical Neurophysiology Practice, 2016, 1, 62-66.	0.6	27
100	Pain and small fiber function in charcot–marie–tooth disease type 1A. Muscle and Nerve, 2014, 50, 366-371.	1.0	26
101	Receptive properties of pial afferents. Pain, 1991, 45, 77-85.	2.0	24
102	Stability and plasticity of nociceptor function and their relationship to provoked and ongoing pain. Seminars in Neuroscience, 1995, 7, 199-210.	2.3	24
103	Long-Term Outcome of Brachial Plexus Reimplantation After Complete Brachial Plexus Avulsion Injury. World Neurosurgery, 2017, 103, 28-36.	0.7	24
104	Painful peripheral neuropathies. , 2006, , 973-999.		24
105	Uncovering Genomic Causes of Co-Morbidity in Epilepsy: Gene-Driven Phenotypic Characterization of Rare Microdeletions. PLoS ONE, 2011, 6, e23182.	1.1	24
106	Behavioral and Other Phenotypes in a Cytoplasmic Dynein Light Intermediate Chain 1 Mutant Mouse. Journal of Neuroscience, 2011, 31, 5483-5494.	1.7	23
107	Novel mutations in human and mouse SCN4A implicate AMPK in myotonia and periodic paralysis. Brain, 2014, 137, 3171-3185.	3.7	23
108	A quantitative study of the central projection patterns of unmyelinated ventral root afferents in the cat Journal of Physiology, 1990, 422, 265-287.	1.3	22

MARTIN KOLTZENBURG

#	Article	IF	CITATIONS
109	Viscero-sympathetic reflex responses to mechanical stimulation of pelvic viscera in the cat. Journal of the Autonomic Nervous System, 1992, 38, 147-158.	1.9	22
110	Short-interval intracortical inhibition as a function of inter-stimulus interval: Three methods compared. Brain Stimulation, 2021, 14, 22-32.	0.7	22
111	Increase of blood flow in skin and spinal cord following activation of small diameter primary afferents. Brain Research, 1990, 509, 145-149.	1.1	20
112	Predominant neuronal B-cell loss in L5 DRG of p75 receptor-deficient mice. Journal of Anatomy, 2002, 200, 81-87.	0.9	20
113	Early diagnosis of amyotrophic lateral sclerosis by threshold tracking and conventional transcranial magnetic stimulation. European Journal of Neurology, 2021, 28, 3030-3039.	1.7	19
114	A rat in vitro model for the measurement of multiple excitability properties of cutaneous axons. Clinical Neurophysiology, 2007, 118, 2404-2412.	0.7	18
115	Deletion of chromosome 12q21 affecting <i>KCNC2</i> and <i>ATXN7L3B</i> in a family with neurodevelopmental delay and ataxia. Journal of Neurology, Neurosurgery and Psychiatry, 2013, 84, 1255-1257.	0.9	17
116	The Role of TRP Channels in Sensory Neurons. Novartis Foundation Symposium, 2008, , 206-220.	1.2	16
117	Early neurophysiological biomarkers and spinal cord pathology in inherited prion disease. Brain, 2019, 142, 760-770.	3.7	16
118	Pain and hyperalgesia in acute inflammatory and chronic neuropathic conditions. Lancet, The, 1995, 345, 1111.	6.3	14
119	Thermosensory Perceptual Learning Is Associated with Structural Brain Changes in Parietal–Opercular (SII) Cortex. Journal of Neuroscience, 2017, 37, 9380-9388.	1.7	14
120	Neurogenic inflammation as a novel treatment target for chronic pain syndromes. Experimental Neurology, 2022, 356, 114108.	2.0	14
121	Chronic immune sensory polyradiculopathy with cranial and peripheral nerve involvement. Journal of Neurology, 2012, 259, 1238-1240.	1.8	12
122	Comparison of figure-of-8 and circular coils for threshold tracking transcranial magnetic stimulation measurements. Neurophysiologie Clinique, 2021, 51, 153-160.	1.0	10
123	154 Specific subtypes of cutaneous mechanoreceptors require neurotrophin-3 following peripheral target innervation. International Journal of Developmental Neuroscience, 1996, 14, 87-87.	0.7	9
124	Fast-adapting mechanoreceptors are important for force control in precision grip but not for sensorimotor memory. Journal of Neurophysiology, 2016, 115, 3156-3161.	0.9	9
125	No overlap of sensitivity to capsaicin and expression of galanin in rat dorsal root ganglion neurons after axotomy. Experimental Brain Research, 2003, 153, 1-6.	0.7	8
126	Denervation hypertrophy may mimic local tumor spread on magnetic resonance imaging. Muscle and Nerve, 2006, 34, 108-110.	1.0	6

#	Article	IF	CITATIONS
127	Functional imaging in microfluidic chambers reveals sensory neuron sensitivity is differentially regulated between neuronal regions. Pain, 2018, 159, 1413-1425.	2.0	6
128	Functional reinnervation of sweat glands in the adult cat paw by inappropriate postganglionic axons. Journal of the Autonomic Nervous System, 1996, 60, 193-199.	1.9	5
129	Protons regulate the excitability properties of rat myelinated sensory axons <i>in vitro</i> through block of persistent sodium currents. Journal of the Peripheral Nervous System, 2012, 17, 102-111.	1.4	5
130	Longitudinal assessment of oxaliplatin-induced neuropathy. Neurology, 2012, 78, 152-152.	1.5	4
131	Isolated motor conduction block associated with infliximab. Journal of Neurology, 2012, 259, 1758-1760.	1.8	3
132	PERIPHERAL NERVE BING-NEEL SYNDROME. Journal of Neurology, Neurosurgery and Psychiatry, 2015, 86, e4.59-e4.	0.9	3
133	Neuronal maturation in human and rat spinal cord assessed by immunoreactivity for substance P, calcitonin gene-related peptide (CGRP), galanin and neurofilament proteins. Regulatory Peptides, 1985, 13, 65.	1.9	2
134	Dynamic and static components of mechanical hyperalgesia in human hairy skin. Pain, 1993, 53, 363.	2.0	2
135	Self-Mutilation in Patients After Nerve Injury May Not Be Due to Deafferentation Pain: A Case Report. Pain Medicine, 2011, 12, 1644-1648.	0.9	2
136	Unusual demyelinating pathology in a case of adult polyglucosan body disease. Neuromuscular Disorders, 2015, 25, S222.	0.3	2
137	Short interval intracortical inhibition: Variability of amplitude and threshold-tracking measurements with 6 or 10 stimuli per point. Neurophysiologie Clinique, 2022, 52, 170-173.	1.0	2
138	Short latency afferent inhibition: comparison between threshold-tracking and conventional amplitude recording methods. Experimental Brain Research, 2022, 240, 1241-1247.	0.7	2
139	Mechanism-Based Classi.cations of Pain and Analgesic Drug Discovery. , 2003, , .		1
140	Conventional and Threshold-Tracking Transcranial Magnetic Stimulation Tests for Single-handed Operation. Journal of Visualized Experiments, 2021, , .	0.2	1
141	Mechanisms of peripheral neuropathic pain. , 2005, , 115-148.		1
142	Effects of Mexiletine and Lacosamide on Nerve Excitability in Healthy Subjects: A Randomized, Doubleâ€Blind, Placeboâ€Controlled, Crossover Study. Clinical Pharmacology and Therapeutics, 2022, 112, 1008-1019.	2.3	1
143	What is the potential of studying receptor expression on nociceptors?. Pain Forum, 1998, 7, 79-83.	1.1	0

144 NeuropatÃas periféricas dolorosas. , 2007, , 997-1025.