

Jrgen Sandkhler

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

104
papers

8,753
citations

47
h-index

93
g-index

122
ext. papers

9,594
ext. citations

7.2
avg, IF

6.47
L-index

#	Paper	IF	Citations
104	Lamina-specific properties of spinal astrocytes. <i>Glia</i> , 2021 , 69, 1749-1766	9	3
103	Spontaneous, Voluntary, and Affective Behaviours in Rat Models of Pathological Pain.. <i>Frontiers in Pain Research</i> , 2021 , 2, 672711	1.4	1
102	Fundamental sex differences in morphine withdrawal-induced neuronal plasticity. <i>Pain</i> , 2020 , 161, 2022-2034	2.034	4
101	Interferon- γ Facilitates the synaptic transmission between primary afferent C-fibres and lamina I neurons in the rat spinal dorsal horn via microglia activation. <i>Molecular Pain</i> , 2020 , 16, 1744806920917249	2.4	7
100	Withdrawal from an opioid induces a transferable memory trace in the cerebrospinal fluid. <i>Pain</i> , 2019 , 160, 2819-2828	8	3
99	A brief, high-dose remifentanyl infusion partially reverses neuropathic pain in a subgroup of post herpetic neuralgia patients. <i>Journal of Clinical Neuroscience</i> , 2017 , 40, 195-197	2.2	1
98	Gliogenic LTP spreads widely in nociceptive pathways. <i>Science</i> , 2016 , 354, 1144-1148	33.3	95
97	Presynaptic inhibition of optogenetically identified VGLuT3+ sensory fibres by opioids and baclofen. <i>Pain</i> , 2015 , 156, 243-251	8	21
96	Translating synaptic plasticity into sensation. <i>Brain</i> , 2015 , 138, 2463-4	11.2	6
95	Selective activation of microglia facilitates synaptic strength. <i>Journal of Neuroscience</i> , 2015 , 35, 4552-706.6	6.6	111
94	Pronociceptive and Antinociceptive Effects of Buprenorphine in the Spinal Cord Dorsal Horn Cover a Dose Range of Four Orders of Magnitude. <i>Journal of Neuroscience</i> , 2015 , 35, 9580-94	6.6	17
93	Nozizeptives System von Fr β - und Neugeborenen 2015 , 35-48		
92	Neurogenic neuroinflammation: inflammatory CNS reactions in response to neuronal activity. <i>Nature Reviews Neuroscience</i> , 2014 , 15, 43-53	13.5	361
91	Pain in neuromyelitis optica--prevalence, pathogenesis and therapy. <i>Nature Reviews Neurology</i> , 2014 , 10, 529-36	15	56
90	VGLuT3+ primary afferents play distinct roles in mechanical and cold hypersensitivity depending on pain etiology. <i>Journal of Neuroscience</i> , 2014 , 34, 12015-28	6.6	39
89	Induction of thermal hyperalgesia and synaptic long-term potentiation in the spinal cord lamina I by TNF- α and IL-1 β s mediated by glial cells. <i>Journal of Neuroscience</i> , 2013 , 33, 6540-51	6.6	141
88	Non-Hebbian plasticity at C-fiber synapses in rat spinal cord lamina I neurons. <i>Pain</i> , 2013 , 154, 1333-42	8	30

87	How to erase memory traces of pain and fear. <i>Trends in Neurosciences</i> , 2013 , 36, 343-52	13.3	58
86	Properties of spinal lamina III GABAergic neurons in naïve and in neuropathic mice. <i>European Journal of Pain</i> , 2013 , 17, 1168-79	3.7	9
85	Impaired excitatory drive to spinal GABAergic neurons of neuropathic mice. <i>PLoS ONE</i> , 2013 , 8, e73370	3.7	47
84	Hyperalgesia by synaptic long-term potentiation (LTP): an update. <i>Current Opinion in Pharmacology</i> , 2012 , 12, 18-27	5.1	121
83	Effects of peripheral inflammation on the blood-spinal cord barrier. <i>Molecular Pain</i> , 2012 , 8, 44	3.4	22
82	Erasure of a spinal memory trace of pain by a brief, high-dose opioid administration. <i>Science</i> , 2012 , 335, 235-8	33.3	71
81	Long-term potentiation in spinal nociceptive pathways as a novel target for pain therapy. <i>Molecular Pain</i> , 2011 , 7, 20	3.4	149
80	Central nervous system mast cells in peripheral inflammatory nociception. <i>Molecular Pain</i> , 2011 , 7, 42	3.4	52
79	Multiple targets of μ opioid receptor-mediated presynaptic inhibition at primary afferent A δ and C-fibers. <i>Journal of Neuroscience</i> , 2011 , 31, 1313-22	6.6	106
78	Heterosynaptic long-term potentiation at GABAergic synapses of spinal lamina I neurons. <i>Journal of Neuroscience</i> , 2011 , 31, 17383-91	6.6	33
77	Distinct mechanisms underlying pronociceptive effects of opioids. <i>Journal of Neuroscience</i> , 2011 , 31, 16748-56	6.6	55
76	Central sensitization versus synaptic long-term potentiation (LTP): a critical comment. <i>Journal of Pain</i> , 2010 , 11, 798-800	5.2	22
75	Models and mechanisms of hyperalgesia and allodynia. <i>Physiological Reviews</i> , 2009 , 89, 707-58	47.9	819
74	Direct excitation of spinal GABAergic interneurons by noradrenaline. <i>Pain</i> , 2009 , 145, 204-10	8	61
73	Induction of synaptic long-term potentiation after opioid withdrawal. <i>Science</i> , 2009 , 325, 207-10	33.3	160
72	Long-Term Potentiation in Superficial Spinal Dorsal Horn: A Pain Amplifier 2009 , 201-218		1
71	Long-term potentiation at C-fibre synapses by low-level presynaptic activity in vivo. <i>Molecular Pain</i> , 2008 , 4, 18	3.4	49
70	Spread of excitation across modality borders in spinal dorsal horn of neuropathic rats. <i>Pain</i> , 2008 , 135, 300-310	8	55

69	Modification of classical neurochemical markers in identified primary afferent neurons with Abeta-, Adelta-, and C-fibers after chronic constriction injury in mice. <i>Journal of Comparative Neurology</i> , 2007 , 502, 325-36	3.4	120
68	Xenon blocks the induction of synaptic long-term potentiation in pain pathways in the rat spinal cord in vivo. <i>Anesthesia and Analgesia</i> , 2007 , 104, 106-11	3.9	17
67	Effects of the NMDA-receptor antagonist ketamine on perceptual correlates of long-term potentiation within the nociceptive system. <i>Neuropharmacology</i> , 2007 , 52, 655-61	5.5	41
66	Group I metabotropic glutamate receptor-induced Ca(2+)-gradients in rat superficial spinal dorsal horn neurons. <i>Neuropharmacology</i> , 2007 , 52, 1015-23	5.5	14
65	Understanding LTP in pain pathways. <i>Molecular Pain</i> , 2007 , 3, 9	3.4	238
64	Synaptic amplifier of inflammatory pain in the spinal dorsal horn. <i>Science</i> , 2006 , 312, 1659-62	33.3	362
63	Possible sources and sites of action of the nitric oxide involved in synaptic plasticity at spinal lamina I projection neurons. <i>Neuroscience</i> , 2006 , 141, 977-988	3.9	28
62	Physiological properties of spinal lamina II GABAergic neurons in mice following peripheral nerve injury. <i>Journal of Physiology</i> , 2006 , 577, 869-78	3.9	57
61	Signal transduction pathways of group I metabotropic glutamate receptor-induced long-term depression at sensory spinal synapses. <i>Pain</i> , 2005 , 118, 145-54	8	28
60	Opioids and central sensitisation: II. Induction and reversal of hyperalgesia. <i>European Journal of Pain</i> , 2005 , 9, 149-52	3.7	29
59	Opioids and central sensitisation: I. Preemptive analgesia. <i>European Journal of Pain</i> , 2005 , 9, 145-8	3.7	8
58	Long-range oscillatory Ca ²⁺ waves in rat spinal dorsal horn. <i>European Journal of Neuroscience</i> , 2005 , 22, 1967-76	3.5	26
57	Synaptic input of rat spinal lamina I projection and unidentified neurones in vitro. <i>Journal of Physiology</i> , 2005 , 566, 355-68	3.9	38
56	Low dose of S+-ketamine prevents long-term potentiation in pain pathways under strong opioid analgesia in the rat spinal cord in vivo. <i>British Journal of Anaesthesia</i> , 2005 , 95, 518-23	5.4	36
55	Neurobiologische Grundlagen des Schmerzgedächtnisses. <i>Psychoneuro: Psychiatrie - Neurologie - Psychotherapie</i> , 2005 , 31, 77-80		1
54	Perceptual correlates of nociceptive long-term potentiation and long-term depression in humans. <i>Journal of Neuroscience</i> , 2004 , 24, 964-71	6.6	264
53	Distinctive membrane and discharge properties of rat spinal lamina I projection neurones in vitro. <i>Journal of Physiology</i> , 2004 , 555, 527-43	3.9	87
52	Physiological, neurochemical and morphological properties of a subgroup of GABAergic spinal lamina II neurones identified by expression of green fluorescent protein in mice. <i>Journal of Physiology</i> , 2004 , 560, 249-66	3.9	166

51	Pre- and postsynaptic contributions of voltage-dependent Ca ²⁺ channels to nociceptive transmission in rat spinal lamina I neurons. <i>European Journal of Neuroscience</i> , 2004 , 19, 103-11	3.5	130
50	Low doses of fentanyl block central sensitization in the rat spinal cord in vivo. <i>Anesthesiology</i> , 2004 , 100, 1545-51	4.3	24
49	Partial correlation analysis for the identification of synaptic connections. <i>Biological Cybernetics</i> , 2003 , 89, 289-302	2.8	83
48	Induction of long-term potentiation of C fibre-evoked spinal field potentials requires recruitment of group I, but not group II/III metabotropic glutamate receptors. <i>Pain</i> , 2003 , 106, 373-379	8	59
47	Reduction of glycine receptor-mediated miniature inhibitory postsynaptic currents in rat spinal lamina I neurons after peripheral inflammation. <i>Neuroscience</i> , 2003 , 122, 799-805	3.9	47
46	Epileptiform activity in rat spinal dorsal horn in vitro has common features with neuropathic pain. <i>Pain</i> , 2003 , 105, 327-38	8	24
45	Synaptic plasticity in spinal lamina I projection neurons that mediate hyperalgesia. <i>Science</i> , 2003 , 299, 1237-40	33.3	446
44	Lamina-specific membrane and discharge properties of rat spinal dorsal horn neurones in vitro. <i>Journal of Physiology</i> , 2002 , 541, 231-44	3.9	150
43	Fear the pain. <i>Lancet, The</i> , 2002 , 360, 426	4.0	7
42	Role of kainate receptors in nociception. <i>Brain Research Reviews</i> , 2002 , 40, 215-22		39
41	Bidirectional actions of nociceptin/orphanin FQ on A delta-fibre-evoked responses in rat superficial spinal dorsal horn in vitro. <i>Neuroscience</i> , 2001 , 107, 275-81	3.9	19
40	Nozizeption bei Fr \ddot{u} h- und Neugeborenen. <i>Schmerz</i> , 2000 , 14, 297-301	2.4	6
39	Differential actions of spinal analgesics on mono-versus polysynaptic Adelta-fibre-evoked field potentials in superficial spinal dorsal horn in vitro. <i>Pain</i> , 2000 , 88, 97-108	8	15
38	Induction of homosynaptic long-term depression at spinal synapses of sensory a delta-fibers requires activation of metabotropic glutamate receptors. <i>Neuroscience</i> , 2000 , 98, 141-8	3.9	57
37	Learning and memory in pain pathways. <i>Pain</i> , 2000 , 88, 113-118	8	310
36	Activation of group I metabotropic glutamate receptors induces long-term depression at sensory synapses in superficial spinal dorsal horn. <i>Neuropharmacology</i> , 2000 , 39, 2231-43	5.5	30
35	Inhibition of caspases prevents cell death of hippocampal CA1 neurons, but not impairment of hippocampal long-term potentiation following global ischemia. <i>Neuroscience</i> , 1999 , 93, 1219-22	3.9	100
34	Brain-derived neurotrophic factor improves long-term potentiation and cognitive functions after transient forebrain ischemia in the rat. <i>Experimental Neurology</i> , 1999 , 159, 511-9	5.7	95

33	Induction of long-term potentiation at spinal synapses by noxious stimulation or nerve injury. <i>European Journal of Neuroscience</i> , 1998 , 10, 2476-80	3.5	236
32	Long-term depression of C-fibre-evoked spinal field potentials by stimulation of primary afferent A delta-fibres in the adult rat. <i>European Journal of Neuroscience</i> , 1998 , 10, 3069-75	3.5	118
31	Activation of spinal N-methyl-D-aspartate or neurokinin receptors induces long-term potentiation of spinal C-fibre-evoked potentials. <i>Neuroscience</i> , 1998 , 86, 1209-16	3.9	92
30	Corelease of two fast neurotransmitters at a central synapse. <i>Science</i> , 1998 , 281, 419-24	33.3	652
29	Identification of synaptic connections in neural ensembles by graphical models. <i>Journal of Neuroscience Methods</i> , 1997 , 77, 93-107	3	82
28	Synchronicity of nociceptive and non-nociceptive adjacent neurons in the spinal dorsal horn of the rat: stimulus-induced plasticity. <i>Neuroscience</i> , 1997 , 76, 39-54	3.9	31
27	Low dimensional attractors in discharges of sensory neurons of the rat spinal dorsal horn are maintained by supraspinal descending systems. <i>Neuroscience</i> , 1996 , 70, 191-200	3.9	9
26	The massive expression of c-fos protein in spinal dorsal horn neurons is not followed by long-term changes in spinal nociception. <i>Neuroscience</i> , 1996 , 73, 657-66	3.9	33
25	Controlled superfusion of the rat spinal cord for studying non-synaptic transmission: an autoradiographic analysis. <i>Journal of Neuroscience Methods</i> , 1995 , 58, 193-202	3	47
24	Long-term potentiation of C-fiber-evoked potentials in the rat spinal dorsal horn is prevented by spinal N-methyl-D-aspartic acid receptor blockage. <i>Neuroscience Letters</i> , 1995 , 191, 43-6	3.3	272
23	Differential effects of spinalization on discharge patterns and discharge rates of simultaneously recorded nociceptive and non-nociceptive spinal dorsal horn neurons. <i>Pain</i> , 1995 , 60, 55-65	8	29
22	The effects of extrasynaptic substance P on nociceptive neurons in laminae I and II in rat lumbar spinal dorsal horn. <i>Neuroscience</i> , 1995 , 68, 1207-18	3.9	27
21	Inhibition of spinal nociceptive neurons by microinjections of somatostatin into the nucleus raphe magnus and the midbrain periaqueductal gray of the anesthetized cat. <i>Neuroscience Letters</i> , 1995 , 187, 137-41	3.3	33
20	Map of spinal neurons activated by chemical stimulation in the nucleus raphe magnus of the unanesthetized rat. <i>Neuroscience</i> , 1995 , 67, 497-504	3.9	14
19	Distinct patterns of activated neurons throughout the rat midbrain periaqueductal gray induced by chemical stimulation within its subdivisions. <i>Journal of Comparative Neurology</i> , 1995 , 357, 546-53	3.4	20
18	Inhibition of c-Fos protein expression in rat spinal cord by antisense oligodeoxynucleotide superfusion. <i>European Journal of Neuroscience</i> , 1994 , 6, 880-4	3.5	48
17	Identification and characterization of rhythmic nociceptive and non-nociceptive spinal dorsal horn neurons in the rat. <i>Neuroscience</i> , 1994 , 61, 991-1006	3.9	36
16	Characteristics of propriospinal modulation of nociceptive lumbar spinal dorsal horn neurons in the cat. <i>Neuroscience</i> , 1993 , 54, 957-67	3.9	38

15	JUN, FOS, KROX, and CREB transcription factor proteins in the rat cortex: basal expression and induction by spreading depression and epileptic seizures. <i>Journal of Comparative Neurology</i> , 1993 , 333, 271-88	3.4	137
14	Potentiated expression of FOS protein in the rat spinal cord following bilateral noxious cutaneous stimulation. <i>Neuroscience</i> , 1992 , 48, 525-32	3.9	73
13	Characteristics of midbrain control of spinal nociceptive neurons and nonsomatosensory parameters in the pentobarbital-anesthetized rat. <i>Journal of Neurophysiology</i> , 1991 , 65, 33-48	3.2	39
12	Induction of the Proto-Oncogene c-fos as a Cellular Marker of Brainstem Neurons Activated from the PAG 1991 , 267-286		4
11	B-vitamins enhance afferent inhibitory controls of nociceptive neurons in the rat spinal cord. <i>Klinische Wochenschrift</i> , 1990 , 68, 125-8		6
10	Spinal somatostatin superfusion in vivo affects activity of cat nociceptive dorsal horn neurons: comparison with spinal morphine. <i>Neuroscience</i> , 1990 , 34, 565-76	3.9	81
9	Blockade of GABAA receptors in the midbrain periaqueductal gray abolishes nociceptive spinal dorsal horn neuronal activity. <i>European Journal of Pharmacology</i> , 1989 , 160, 163-6	5.3	51
8	Inhibition of spinal nociceptive neurons by excitation of cell bodies or fibers of passage at various brainstem sites in the cat. <i>Neuroscience Letters</i> , 1988 , 93, 67-72	3.3	17
7	Neuronal effects of controlled superfusion of the spinal cord with monoaminergic receptor antagonists in the cat. <i>Progress in Brain Research</i> , 1988 , 77, 321-7	2.9	2
6	Pentobarbital, in subanesthetic doses, depresses spinal transmission of nociceptive information but does not affect stimulation-produced descending inhibition in the cat. <i>Pain</i> , 1987 , 31, 381-390	8	19
5	Raphe magnus-induced descending inhibition of spinal nociceptive neurons is mediated through contralateral spinal pathways in the cat. <i>Neuroscience Letters</i> , 1987 , 76, 168-72	3.3	14
4	Spinal pathways mediating tonic or stimulation-produced descending inhibition from the periaqueductal gray or nucleus raphe magnus are separate in the cat. <i>Journal of Neurophysiology</i> , 1987 , 58, 327-41	3.2	64
3	Characterization of inhibition of a spinal nociceptive reflex by stimulation medially and laterally in the midbrain and medulla in the pentobarbital-anesthetized rat. <i>Brain Research</i> , 1984 , 305, 67-76	3.7	187
2	Relative contributions of the nucleus raphe magnus and adjacent medullary reticular formation to the inhibition by stimulation in the periaqueductal gray of a spinal nociceptive reflex in the pentobarbital-anesthetized rat. <i>Brain Research</i> , 1984 , 305, 77-87	3.7	240
1	Neuroinflammation and Neuroplasticity in Pain		2