

Martin Schmelz

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258
papers

13,680
citations

65
h-index

109
g-index

288
ext. papers

15,450
ext. citations

5
avg, IF

6.41
L-index

#	Paper	IF	Citations
258	Specific C-receptors for itch in human skin. <i>Journal of Neuroscience</i> , 1997 , 17, 8003-8	6.6	683
257	The neurobiology of itch. <i>Nature Reviews Neuroscience</i> , 2006 , 7, 535-47	13.5	676
256	Proteinase-activated receptor-2 mediates itch: a novel pathway for pruritus in human skin. <i>Journal of Neuroscience</i> , 2003 , 23, 6176-80	6.6	448
255	Clinical classification of itch: a position paper of the International Forum for the Study of Itch. <i>Acta Dermato-Venereologica</i> , 2007 , 87, 291-4	2.2	363
254	Itch. <i>Lancet, The</i> , 2003 , 361, 690-4	4.0	350
253	Short-term infusion of the mu-opioid agonist remifentanil in humans causes hyperalgesia during withdrawal. <i>Pain</i> , 2003 , 106, 49-57	8	303
252	Chemical response pattern of different classes of C-nociceptors to pruritogens and algogens. <i>Journal of Neurophysiology</i> , 2003 , 89, 2441-8	3.2	296
251	Frontiers in pruritus research: scratching the brain for more effective itch therapy. <i>Journal of Clinical Investigation</i> , 2006 , 116, 1174-86	15.9	261
250	Differential modulation of remifentanil-induced analgesia and postinfusion hyperalgesia by S-ketamine and clonidine in humans. <i>Anesthesiology</i> , 2003 , 99, 152-9	4.3	237
249	Modern aspects of cutaneous neurogenic inflammation. <i>Archives of Dermatology</i> , 2003 , 139, 1479-88		232
248	Perioperative intravenous lidocaine has preventive effects on postoperative pain and morphine consumption after major abdominal surgery. <i>Anesthesia and Analgesia</i> , 2004 , 98, 1050-1055	3.9	227
247	Distribution of cannabinoid receptor 1 (CB1) and 2 (CB2) on sensory nerve fibers and adnexal structures in human skin. <i>Journal of Dermatological Science</i> , 2005 , 38, 177-88	4.3	215
246	Neuropeptides, neurogenic inflammation and complex regional pain syndrome (CRPS). <i>Neuroscience Letters</i> , 2008 , 437, 199-202	3.3	198
245	Facilitated neurogenic inflammation in complex regional pain syndrome. <i>Pain</i> , 2001 , 91, 251-257	8	198
244	Separate peripheral pathways for pruritus in man. <i>Journal of Neurophysiology</i> , 2008 , 100, 2062-9	3.2	194
243	Neurophysiological, neuroimmunological, and neuroendocrine basis of pruritus. <i>Journal of Investigative Dermatology</i> , 2006 , 126, 1705-18	4.3	189
242	A new model of electrically evoked pain and hyperalgesia in human skin: the effects of intravenous alfentanil, S(+)-ketamine, and lidocaine. <i>Anesthesiology</i> , 2001 , 95, 395-402	4.3	177

241	Acute effects of substance P and calcitonin gene-related peptide in human skin--a microdialysis study. <i>Journal of Investigative Dermatology</i> , 2000 , 115, 1015-20	4.3	176
240	High local concentrations and effects on differentiation implicate interleukin-6 as a paracrine regulator. <i>Obesity</i> , 2004 , 12, 454-60		174
239	Plasma extravasation and neuropeptide release in human skin as measured by intradermal microdialysis. <i>Neuroscience Letters</i> , 1997 , 230, 117-20	3.3	153
238	Low-dose lidocaine reduces secondary hyperalgesia by a central mode of action. <i>Pain</i> , 2000 , 85, 217-24	8	151
237	Different profiles of buprenorphine-induced analgesia and antihyperalgesia in a human pain model. <i>Pain</i> , 2005 , 118, 15-22	8	145
236	Hematopoietic colony-stimulating factors mediate tumor-nerve interactions and bone cancer pain. <i>Nature Medicine</i> , 2009 , 15, 802-7	50.5	143
235	Abnormal function of C-fibers in patients with diabetic neuropathy. <i>Journal of Neuroscience</i> , 2006 , 26, 11287-94	6.6	143
234	Neurophysiology of pruritus: cutaneous elicitation of itch. <i>Archives of Dermatology</i> , 2003 , 139, 1463-70		142
233	Mast cell mediators other than histamine induce pruritus in atopic dermatitis patients: a dermal microdialysis study. <i>British Journal of Dermatology</i> , 2000 , 142, 1114-20	4	140
232	Pathological C-fibres in patients with a chronic painful condition. <i>Brain</i> , 2003 , 126, 567-78	11.2	136
231	Bradykinin is a potent pruritogen in atopic dermatitis: a switch from pain to itch. <i>Pain</i> , 2006 , 126, 16-23	8	127
230	NGF induces non-inflammatory localized and lasting mechanical and thermal hypersensitivity in human skin. <i>Pain</i> , 2010 , 148, 407-413	8	126
229	Electrically evoked itch in humans. <i>Pain</i> , 2005 , 113, 148-54	8	110
228	Proinflammatory role of proteinase-activated receptor-2 in humans and mice during cutaneous inflammation in vivo. <i>FASEB Journal</i> , 2003 , 17, 1871-85	0.9	109
227	Innervation territories of mechanically activated C nociceptor units in human skin. <i>Journal of Neurophysiology</i> , 1997 , 78, 2641-8	3.2	106
226	High spontaneous activity of C-nociceptors in painful polyneuropathy. <i>Pain</i> , 2012 , 153, 2040-2047	8	105
225	Central origin of secondary mechanical hyperalgesia. <i>Journal of Neurophysiology</i> , 2003 , 90, 353-9	3.2	104
224	The impact of opioid-induced hyperalgesia for postoperative pain. <i>Baillieres Best Practice and Research in Clinical Anaesthesiology</i> , 2007 , 21, 65-83	4	103

223	Opioid-induced mast cell activation and vascular responses is not mediated by mu-opioid receptors: an in vivo microdialysis study in human skin. <i>Anesthesia and Analgesia</i> , 2004 , 98, 364-370	3.9	101
222	Modulation of remifentanyl-induced analgesia and postinfusion hyperalgesia by parecoxib in humans. <i>Anesthesiology</i> , 2006 , 105, 1016-23	4.3	97
221	Substance-P-induced protein extravasation is bilaterally increased in complex regional pain syndrome. <i>Experimental Neurology</i> , 2003 , 183, 197-204	5.7	97
220	Continuous brachial plexus blockade in combination with the NMDA receptor antagonist memantine prevents phantom pain in acute traumatic upper limb amputees. <i>European Journal of Pain</i> , 2007 , 11, 299-308	3.7	96
219	Chronic itch and pain--similarities and differences. <i>European Journal of Pain</i> , 2006 , 10, 473-8	3.7	94
218	Effects of oral pregabalin and aprepitant on pain and central sensitization in the electrical hyperalgesia model in human volunteers. <i>British Journal of Anaesthesia</i> , 2007 , 98, 246-54	5.4	91
217	Epidermal nerve fibers modulate keratinocyte growth via neuropeptide signaling in an innervated skin model. <i>Journal of Investigative Dermatology</i> , 2013 , 133, 1620-8	4.3	90
216	Interleukin-6 in combination with its soluble IL-6 receptor sensitises rat skin nociceptors to heat, in vivo. <i>Pain</i> , 2002 , 96, 57-62	8	90
215	The cyclooxygenase isozyme inhibitors parecoxib and paracetamol reduce central hyperalgesia in humans. <i>Pain</i> , 2004 , 108, 148-53	8	88
214	Itch--mediators and mechanisms. <i>Journal of Dermatological Science</i> , 2002 , 28, 91-6	4.3	87
213	Mechano-insensitive nociceptors encode pain evoked by tonic pressure to human skin. <i>Neuroscience</i> , 2000 , 98, 793-800	3.9	87
212	Cytokine profile in human skin in response to experimental inflammation, noxious stimulation, and administration of a COX-inhibitor: a microdialysis study. <i>Pain</i> , 2008 , 139, 15-27	8	84
211	Low-dose lidocaine suppresses experimentally induced hyperalgesia in humans. <i>Anesthesiology</i> , 1998 , 89, 1345-53	4.3	84
210	Differential endogenous pain modulation in complex-regional pain syndrome. <i>Brain</i> , 2009 , 132, 788-800	11.2	82
209	Neuronal sensitization for histamine-induced itch in lesional skin of patients with atopic dermatitis. <i>Archives of Dermatology</i> , 2003 , 139, 1455-8		80
208	Botulinum Toxin A reduces neurogenic flare but has almost no effect on pain and hyperalgesia in human skin. <i>Journal of Neurology</i> , 2003 , 250, 188-93	5.5	80
207	Effects of antihyperalgesic drugs on experimentally induced hyperalgesia in man. <i>Pain</i> , 1998 , 76, 317-325		78
206	Itch and pain. <i>Neuroscience and Biobehavioral Reviews</i> , 2010 , 34, 171-6	9	77

205	Painful and nonpainful phantom and stump sensations in acute traumatic amputees. <i>Journal of Trauma</i> , 2008 , 65, 858-64		77
204	Neurophysiology of pruritus: interaction of itch and pain. <i>Archives of Dermatology</i> , 2003 , 139, 1475-8		76
203	Prostaglandin E2 induces vasodilation and pruritus, but no protein extravasation in atopic dermatitis and controls. <i>Journal of the American Academy of Dermatology</i> , 2002 , 47, 28-32	4.5	76
202	Facilitated neurogenic inflammation in unaffected limbs of patients with complex regional pain syndrome. <i>Neuroscience Letters</i> , 2004 , 359, 163-6	3.3	72
201	Post-junctional facilitation of Substance P signaling in a tibia fracture rat model of complex regional pain syndrome type I. <i>Pain</i> , 2009 , 144, 278-286	8	71
200	Pathophysiology and treatment of pain in joint disease. <i>Advanced Drug Delivery Reviews</i> , 2006 , 58, 323-428.5		71
199	Neural activation during experimental allodynia: a functional magnetic resonance imaging study. <i>European Journal of Neuroscience</i> , 2004 , 19, 3211-8	3.5	71
198	Different patterns of mast cell activation by muscle relaxants in human skin. <i>Anesthesiology</i> , 2001 , 95, 659-67	4.3	71
197	Electrically evoked neuropeptide release and neurogenic inflammation differ between rat and human skin. <i>Journal of Physiology</i> , 2000 , 529 Pt 3, 803-10	3.9	70
196	NGF-evoked sensitization of muscle fascia nociceptors in humans. <i>Pain</i> , 2012 , 153, 1673-1679	8	69
195	Naloxone provokes similar pain facilitation as observed after short-term infusion of remifentanyl in humans. <i>Pain</i> , 2003 , 106, 91-9	8	68
194	Cognitive test batteries in animal cognition research: evaluating the past, present and future of comparative psychometrics. <i>Animal Cognition</i> , 2017 , 20, 1003-1018	3.1	63
193	Effects of COX inhibition on experimental pain and hyperalgesia during and after remifentanyl infusion in humans. <i>Pain</i> , 2011 , 152, 1289-1297	8	61
192	Atopic keratinocytes induce increased neurite outgrowth in a coculture model of porcine dorsal root ganglia neurons and human skin cells. <i>Journal of Investigative Dermatology</i> , 2012 , 132, 1892-900	4.3	57
191	Electrically stimulated axon reflexes are diminished in diabetic small fiber neuropathies. <i>Diabetes</i> , 2004 , 53, 769-74	0.9	57
190	Neural signal processing: the underestimated contribution of peripheral human C-fibers. <i>Journal of Neuroscience</i> , 2002 , 22, 6704-12	6.6	56
189	Microneurographic assessment of C-fibre function in aged healthy subjects. <i>Journal of Physiology</i> , 2009 , 587, 419-28	3.9	55
188	Time course of UVA- and UVB-induced inflammation and hyperalgesia in human skin. <i>European Journal of Pain</i> , 1999 , 3, 131-139	3.7	55

187	Pituitary adenylate cyclase activating polypeptide: an important vascular regulator in human skin in vivo. <i>American Journal of Pathology</i> , 2010 , 177, 2563-75	5.8	53
186	Predominant CB2 receptor expression in endothelial cells of glioblastoma in humans. <i>Brain Research Bulletin</i> , 2009 , 79, 333-7	3.9	52
185	Role of TRPM8 and TRPA1 for cold allodynia in patients with cold injury. <i>Pain</i> , 2008 , 139, 63-72	8	51
184	Clinical presentation, management, and pathophysiology of neuropathic itch. <i>Lancet Neurology, The</i> , 2018 , 17, 709-720	24.1	49
183	ATP responses in human C nociceptors. <i>Pain</i> , 2002 , 98, 59-68	8	49
182	Percutaneous penetration studies for risk assessment. <i>Environmental Toxicology and Pharmacology</i> , 2000 , 8, 133-152	5.8	48
181	Patterns of activity-dependent conduction velocity changes differentiate classes of unmyelinated mechano-insensitive afferents including cold nociceptors, in pig and in human. <i>Pain</i> , 2010 , 148, 59-69	8	47
180	Nerve growth factor induces sensitization of nociceptors without evidence for increased intraepidermal nerve fiber density. <i>Pain</i> , 2013 , 154, 2500-2511	8	45
179	Sphingosine-1-phosphate-induced nociceptor excitation and ongoing pain behavior in mice and humans is largely mediated by S1P3 receptor. <i>Journal of Neuroscience</i> , 2013 , 33, 2582-92	6.6	45
178	Inhibition of neutral endopeptidase (NEP) facilitates neurogenic inflammation. <i>Experimental Neurology</i> , 2005 , 195, 179-84	5.7	45
177	The effect of the nitric oxide synthase inhibitor N-nitro-L-arginine-methyl ester on neuropeptide-induced vasodilation and protein extravasation in human skin. <i>Journal of Vascular Research</i> , 2003 , 40, 105-14	1.9	45
176	Nociceptor activation and protein extravasation induced by inflammatory mediators in human skin. <i>European Journal of Pain</i> , 2001 , 5, 49-57	3.7	45
175	Modeling activity-dependent changes of axonal spike conduction in primary afferent C-nociceptors. <i>Journal of Neurophysiology</i> , 2014 , 111, 1721-35	3.2	44
174	Monocyte chemoattractant protein-1 in subcutaneous abdominal adipose tissue: characterization of interstitial concentration and regulation of gene expression by insulin. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2007 , 92, 2688-95	5.6	44
173	Facial Erythema of Rosacea - Aetiology, Different Pathophysiologies and Treatment Options. <i>Acta Dermato-Venereologica</i> , 2016 , 96, 579-86	2.2	44
172	Skin Barrier Damage and Itch: Review of Mechanisms, Topical Management and Future Directions. <i>Acta Dermato-Venereologica</i> , 2019 , 99, 1201-1209	2.2	42
171	The role of Nav1.7 in human nociceptors: insights from human induced pluripotent stem cell-derived sensory neurons of erythromelalgia patients. <i>Pain</i> , 2019 , 160, 1327-1341	8	42
170	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. <i>Pain</i> , 2019 , 160, 2210-2220	8	41

169	Structural and functional differences between neuropathy with and without pain?. <i>Experimental Neurology</i> , 2011 , 231, 199-206	5.7	40
168	Translating nociceptive processing into human pain models. <i>Experimental Brain Research</i> , 2009 , 196, 173-83	3.8	40
167	Skin innervation at different depths correlates with small fibre function but not with pain in neuropathic pain patients. <i>European Journal of Pain</i> , 2012 , 16, 1414-25	3.7	37
166	Potentialiation of nociceptive responses to low pH injections in humans by prostaglandin E2. <i>Journal of Pain</i> , 2007 , 8, 443-51	5.2	37
165	Delta-9-THC based monotherapy in fibromyalgia patients on experimentally induced pain, axon reflex flare, and pain relief. <i>Current Medical Research and Opinion</i> , 2006 , 22, 1269-76	2.5	37
164	Action potential conduction in the terminal arborisation of nociceptive C-fibre afferents. <i>Journal of Physiology</i> , 2003 , 547, 931-40	3.9	37
163	NGF sensitizes nociceptors for cowhage- but not histamine-induced itch in human skin. <i>Journal of Investigative Dermatology</i> , 2013 , 133, 268-70	4.3	36
162	Activation of naloxone-sensitive and -insensitive inhibitory systems in a human pain model. <i>Journal of Pain</i> , 2005 , 6, 757-64	5.2	36
161	Neural fractalkine expression is closely linked to pain and pancreatic neuritis in human chronic pancreatitis. <i>Laboratory Investigation</i> , 2009 , 89, 347-61	5.9	35
160	Endothelin 1 activates and sensitizes human C-nociceptors. <i>Pain</i> , 2008 , 137, 41-49	8	35
159	A polymorphic locus in the intron 16 of the human angiotensin-converting enzyme (ACE) gene is not correlated with complex regional pain syndrome I (CRPS I). <i>European Journal of Pain</i> , 2004 , 8, 221-5	3.7	34
158	Mechanically induced axon reflex and hyperalgesia in human UV-B burn are reduced by systemic lidocaine. <i>European Journal of Pain</i> , 2004 , 8, 237-44	3.7	34
157	Oxaliplatin-Induced Neuropathy: A Long-Term Clinical and Neurophysiologic Follow-Up Study. <i>Clinical Colorectal Cancer</i> , 2016 , 15, e133-40	3.8	33
156	A study of serum concentrations and dermal levels of NGF in atopic dermatitis and healthy subjects. <i>Neuropeptides</i> , 2011 , 45, 417-22	3.3	32
155	Efficacy and safety of pregabalin in treatment refractory patients with various neuropathic pain entities in clinical routine. <i>International Journal of Clinical Practice</i> , 2007 , 61, 1989-96	2.9	32
154	Chemically and electrically induced sweating and flare reaction. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2004 , 114, 72-82	2.4	31
153	Peripheral Antihyperalgesic Effect of Morphine to Heat, but Not Mechanical, Stimulation in Healthy Volunteers after Ultraviolet-B Irradiation. <i>Anesthesia and Analgesia</i> , 1999 , 88, 117-122	3.9	31
152	Rapid flare development evoked by current frequency-dependent stimulation analyzed by full-field laser perfusion imaging. <i>NeuroReport</i> , 2007 , 18, 1101-5	1.7	29

151	Sensitization to bradykinin B1 and B2 receptor activation in UV-B irradiated human skin. <i>Pain</i> , 2004 , 110, 197-204	8	29
150	Catecholamine-induced excitation of nociceptors in sympathetically maintained pain. <i>Pain</i> , 2007 , 127, 296-301	8	28
149	Specific changes in conduction velocity recovery cycles of single nociceptors in a patient with erythromelalgia with the I848T gain-of-function mutation of Nav1.7. <i>Pain</i> , 2015 , 156, 1637-1646	8	27
148	In situ profiling of adipokines in subcutaneous microdialysates from lean and obese individuals. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008 , 295, E1095-105	6	27
147	The Effects of Intradermal Fentanyl and Ketamine on Capsaicin-Induced Secondary Hyperalgesia and Flare Reaction. <i>Anesthesia and Analgesia</i> , 1999 , 89, 1521	3.9	27
146	NGF enhances electrically induced pain, but not axon reflex sweating. <i>Pain</i> , 2011 , 152, 1856-1863	8	26
145	Nerve growth factor selectively decreases activity-dependent conduction slowing in mechano-insensitive C-nociceptors. <i>Pain</i> , 2011 , 152, 2138-2146	8	26
144	Microneurographic single-unit recordings to assess receptive properties of afferent human C-fibers. <i>Neuroscience Letters</i> , 2010 , 470, 158-61	3.3	26
143	Impaired delivery of insulin to adipose tissue and skeletal muscle in obese women with postprandial hyperglycemia. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011 , 96, E1320-4	5.6	26
142	Representation of UV-B-induced thermal and mechanical hyperalgesia in the human brain: a functional MRI study. <i>Human Brain Mapping</i> , 2008 , 29, 1327-42	5.9	26
141	Nociceptor sensitization to mechanical and thermal stimuli in pig skin in vivo. <i>European Journal of Pain</i> , 2008 , 12, 242-50	3.7	26
140	Nerve growth factor locally sensitizes nociceptors in human skin. <i>Pain</i> , 2018 , 159, 416-426	8	26
139	Axon reflex flare and quantitative sudomotor axon reflex contribute in the diagnosis of small fiber neuropathy. <i>Muscle and Nerve</i> , 2013 , 47, 357-63	3.4	25
138	Neurogenic components of trypsin- and thrombin-induced inflammation in rat skin, in vivo. <i>Experimental Dermatology</i> , 2006 , 15, 58-65	4	25
137	Itch and pain differences and commonalities. <i>Handbook of Experimental Pharmacology</i> , 2015 , 227, 285-301	3.12	24
136	No alpha-adrenoreceptor-induced C-fiber activation in healthy human skin. <i>Journal of Applied Physiology</i> , 2004 , 96, 1380-4	3.7	24
135	Local gene expression changes after UV-irradiation of human skin. <i>PLoS ONE</i> , 2012 , 7, e39411	3.7	24
134	Differential effects of lidocaine on nerve growth factor (NGF)-evoked heat- and mechanical hyperalgesia in humans. <i>European Journal of Pain</i> , 2012 , 16, 543-9	3.7	23

133	Intracutaneous injections of platelets cause acute pain and protracted hyperalgesia. <i>Neuroscience Letters</i> , 1997 , 226, 171-4	3.3	23
132	Itch and pain. <i>Dermatologic Therapy</i> , 2005 , 18, 304-7	2.2	23
131	Dermal microdialysis provides evidence for hypersensitivity to noradrenaline in patients with familial dysautonomia. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2002 , 73, 299-302	5.5	23
130	Sensitivity of human scalp skin to pruritic stimuli investigated by intradermal microdialysis in vivo. <i>Journal of the American Academy of Dermatology</i> , 2002 , 47, 245-50	4.5	23
129	SCN10A Mutation in a Patient with Erythromelalgia Enhances C-Fiber Activity Dependent Slowing. <i>PLoS ONE</i> , 2016 , 11, e0161789	3.7	23
128	Polyglycerol-opioid conjugate produces analgesia devoid of side effects. <i>ELife</i> , 2017 , 6,	8.9	22
127	Polyneuropathy induced by HIV disease and antiretroviral therapy. <i>Clinical Neurophysiology</i> , 2013 , 124, 176-82	4.3	21
126	Differential central pain processing following repetitive intramuscular proton/prostaglandin E α injections in female fibromyalgia patients and healthy controls. <i>European Journal of Pain</i> , 2011 , 15, 716-23	3.7	21
125	Pathogenese des Pruritus. <i>JDDG - Journal of the German Society of Dermatology</i> , 2011 , 9, 456-463	1.2	21
124	Acute hyperinsulinemia differentially regulates interstitial and circulating adiponectin oligomeric pattern in lean and insulin-resistant, obese individuals. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2009 , 94, 4508-16	5.6	21
123	Double spikes to single electrical stimulation correlates to spontaneous activity of nociceptors in painful neuropathy patients. <i>Pain</i> , 2012 , 153, 391-398	8	20
122	Neuropathic itch. <i>Pain</i> , 2019 , 160 Suppl 1, S11-S16	8	20
121	Tuning in C-nociceptors to reveal mechanisms in chronic neuropathic pain. <i>Annals of Neurology</i> , 2018 , 83, 945-957	9.4	19
120	Sodium Channel Na1.8 Underlies TTX-Resistant Axonal Action Potential Conduction in Somatosensory C-Fibers of Distal Cutaneous Nerves. <i>Journal of Neuroscience</i> , 2017 , 37, 5204-5214	6.6	18
119	Coculture model of sensory neurites and keratinocytes to investigate functional interaction: chemical stimulation and atomic force microscope-transmitted mechanical stimulation combined with live-cell imaging. <i>Journal of Investigative Dermatology</i> , 2013 , 133, 1387-90	4.3	18
118	Sex differences in itch perception and modulation by distraction--an FMRI pilot study in healthy volunteers. <i>PLoS ONE</i> , 2013 , 8, e79123	3.7	18
117	Neuronal sensitivity of the skin. <i>European Journal of Dermatology</i> , 2011 , 21 Suppl 2, 43-7	0.8	18
116	Cetirizine inhibits skin reactions but not mediator release in immediate and developing late-phase allergic cutaneous reactions. A double-blind, placebo-controlled study. <i>Clinical and Experimental Allergy</i> , 2001 , 31, 1378-84	4.1	18

115	Pathological nociceptors in two patients with erythromelalgia-like symptoms and rare genetic Nav 1.9 variants. <i>Brain and Behavior</i> , 2016 , 6, e00528	3.4	17
114	Itch Processing in the Skin. <i>Frontiers in Medicine</i> , 2019 , 6, 167	4.9	17
113	Exonic mutations in SCN9A (Nav1.7) are found in a minority of patients with erythromelalgia. <i>Scandinavian Journal of Pain</i> , 2014 , 5, 217-225	1.9	17
112	Inflammation meets sensitization--an explanation for spontaneous nociceptor activity?. <i>Pain</i> , 2013 , 154, 2707-2714	8	17
111	Facilitated neurotrophin release in sensitized human skin. <i>European Journal of Pain</i> , 2009 , 13, 399-405	3.7	17
110	A subpopulation of capsaicin-sensitive porcine dorsal root ganglion neurons is lacking hyperpolarization-activated cyclic nucleotide-gated channels. <i>European Journal of Pain</i> , 2008 , 12, 775-89	3.7	17
109	Differential axonal conduction patterns of mechano-sensitive and mechano-insensitive nociceptors--a combined experimental and modelling study. <i>PLoS ONE</i> , 2014 , 9, e103556	3.7	17
108	Free Radical-derived Oxysterols: Novel Adipokines Modulating Adipogenic Differentiation of Adipose Precursor Cells. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016 , 101, 4974-4983	5.6	17
107	Pathogenesis of pruritus. <i>JDDG - Journal of the German Society of Dermatology</i> , 2011 , 9, 456-63	1.2	16
106	C-fiber recovery cycle supernormality depends on ion concentration and ion channel permeability. <i>Biophysical Journal</i> , 2015 , 108, 1057-71	2.9	15
105	Comparison of nerve growth factor-induced sensitization pattern in lumbar and tibial muscle and fascia. <i>Muscle and Nerve</i> , 2015 , 52, 265-72	3.4	15
104	Changes in Ionic Conductance Signature of Nociceptive Neurons Underlying Fabry Disease Phenotype. <i>Frontiers in Neurology</i> , 2017 , 8, 335	4.1	15
103	Differential sensitization of silent nociceptors to low pH stimulation by prostaglandin E2 in human volunteers. <i>European Journal of Pain</i> , 2015 , 19, 159-66	3.7	15
102	Single-fiber recordings of unmyelinated afferents in pig. <i>Neuroscience Letters</i> , 2010 , 470, 175-9	3.3	15
101	Catecholamine release in human skin--a microdialysis study. <i>Experimental Neurology</i> , 2004 , 188, 86-93	5.7	15
100	The effect of intravenous infusion of adenosine on electrically evoked hyperalgesia in a healthy volunteer model of central sensitization. <i>Anesthesia and Analgesia</i> , 2004 , 99, 816-822	3.9	15
99	Neurophysiology and itch pathways. <i>Handbook of Experimental Pharmacology</i> , 2015 , 226, 39-55	3.2	15
98	Differential effects of low dose lidocaine on C-fiber classes in humans. <i>Journal of Pain</i> , 2012 , 13, 1232-41	5.2	14

97	Nerve growth factor-evoked nociceptor sensitization in pig skin in vivo. <i>Journal of Neuroscience Research</i> , 2010 , 88, 2066-72	4.4	14
96	Transcutaneous penetration of toluene in rat skin a microdialysis study. <i>Experimental Dermatology</i> , 2005 , 14, 103-8	4	14
95	Quantitative sensory test correlates with neuropathy, not with pain. <i>Pain</i> , 2018 , 159, 409-410	8	13
94	Axonal hyperexcitability after combined NGF sensitization and UV-B inflammation in humans. <i>European Journal of Pain</i> , 2014 , 18, 785-93	3.7	13
93	Differential sensitivity of thick and thin fibers to HIV and therapy-induced neuropathy. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2007 , 136, 90-5	2.4	13
92	Angiotensin converting enzyme has an inhibitory role in CGRP metabolism in human skin. <i>Peptides</i> , 2006 , 27, 917-20	3.8	13
91	The differential effects of two sodium channel modulators on the conductive properties of C-fibers in pig skin in vivo. <i>Anesthesia and Analgesia</i> , 2012 , 115, 560-71	3.9	13
90	Microdialysis and proteomics of subcutaneous interstitial fluid reveals increased galectin-1 in type 2 diabetes patients. <i>Metabolism: Clinical and Experimental</i> , 2016 , 65, 998-1006	12.7	13
89	Skin microdialysis: methods, applications and future opportunities-an EAACI position paper. <i>Clinical and Translational Allergy</i> , 2019 , 9, 24	5.2	12
88	Modality-specific nociceptor sensitization following UV-B irradiation of human skin. <i>Journal of Pain</i> , 2013 , 14, 739-46	5.2	12
87	Hyperinsulinemia and insulin resistance in the obese may develop as part of a homeostatic response to elevated free fatty acids: A mechanistic case-control and a population-based cohort study. <i>EBioMedicine</i> , 2021 , 65, 103264	8.8	12
86	UV radiation induces CXCL5 expression in human skin. <i>Experimental Dermatology</i> , 2015 , 24, 309-12	4	11
85	Comparison of electrically induced flare response patterns in human and pig skin. <i>Inflammation Research</i> , 2009 , 58, 639-48	7.2	11
84	Neurotrophins in the cerebrospinal fluid of patient cohorts with neuropathic pain, nociceptive pain, or normal pressure hydrocephalus. <i>Clinical Journal of Pain</i> , 2009 , 25, 729-33	3.5	11
83	Complex interactions between pain and itch. <i>Pain</i> , 2006 , 124, 9-10	8	11
82	Low-Frequency Stimulation of Silent Nociceptors Induces Secondary Mechanical Hyperalgesia in Human Skin. <i>Neuroscience</i> , 2018 , 387, 4-12	3.9	10
81	Functional Characterization of At-Level Hypersensitivity in Patients With Spinal Cord Injury. <i>Journal of Pain</i> , 2017 , 18, 66-78	5.2	10
80	Selective thoracic ganglionectomy for the treatment of segmental neuropathic pain. <i>European Journal of Pain</i> , 2012 , 16, 1398-402	3.7	10

79	Electrically induced quantitative sudomotor axon reflex test in human volunteers. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2011 , 159, 111-6	2.4	10
78	Assessment of TTX-s and TTX-r Action Potential Conduction along Neurites of NGF and GDNF Cultured Porcine DRG Somata. <i>PLoS ONE</i> , 2015 , 10, e0139107	3.7	9
77	Opioids and the skin: "itchy" perspectives beyond analgesia and abuse. <i>Journal of Investigative Dermatology</i> , 2007 , 127, 1287-9	4.3	9
76	Chapter 29 Microneurography in the assessment of neuropathic pain. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , 2006 , 81, 427-38	3	9
75	Density of sympathetic axons in sural nerve biopsies of neuropathy patients is related to painfulness. <i>Pain</i> , 2000 , 84, 413-9	8	9
74	Pain and inflammatory hyperalgesia induced by intradermal injections of human platelets and leukocytes. <i>European Journal of Pain</i> , 1999 , 3, 247-259	3.7	9
73	Differential analgesic effects of subanesthetic concentrations of lidocaine on spontaneous and evoked pain in human painful neuroma: A randomized, double blind study. <i>Scandinavian Journal of Pain</i> , 2015 , 8, 37-44	1.9	8
72	Thoracoscopic sympathectomy at the T2 or T3 level facilitates bradykinin-induced protein extravasation in human forearm skin. <i>Pain Medicine</i> , 2010 , 11, 774-80	2.8	8
71	Topical acetyl salicylate and dipyrrone attenuate neurogenic protein extravasation in rat skin in vivo. <i>Neuroscience Letters</i> , 2000 , 290, 57-60	3.3	8
70	Optimizing selective stimulation of peripheral nerves with arrays of coils or surface electrodes using a linear peripheral nerve stimulation metric. <i>Journal of Neural Engineering</i> , 2020 , 17, 016029	5	8
69	Effects of Current Density on Nociceptor Activation Upon Electrical Stimulation in Humans. <i>Pain Practice</i> , 2016 , 16, 273-81	3	7
68	A comparison of spontaneous problem-solving abilities in three estrildid finch (<i>Taeniopygia guttata</i> , <i>Lonchura striata</i> var. <i>domestica</i> , <i>Stagonopleura guttata</i>) species. <i>Journal of Comparative Psychology (Washington, D C: 1983)</i> , 2015 , 129, 356-65	2.1	7
67	Local anesthetics take a central action in analgesia. <i>Pain</i> , 2015 , 156, 1579-1580	8	7
66	Mechano-insensitive nociceptors are sufficient to induce histamine-induced itch. <i>Acta Dermato-Venereologica</i> , 2013 , 93, 394-9	2.2	7
65	Cross-over evaluation of electrically induced pain and hyperalgesia. <i>Scandinavian Journal of Pain</i> , 2010 , 1, 205-210	1.9	7
64	Neurophysiological evidence for altered sensory function caused by storage of hydroxyethyl starch in cutaneous nerve fibres. <i>British Journal of Dermatology</i> , 2005 , 152, 1085-6	4	7
63	The effects of intradermal fentanyl and ketamine on capsaicin-induced secondary hyperalgesia and flare reaction. <i>Anesthesia and Analgesia</i> , 1999 , 89, 1521-7	3.9	7
62	Local NGF and GDNF levels modulate morphology and function of porcine DRG neurites, In Vitro. <i>PLoS ONE</i> , 2018 , 13, e0203215	3.7	7

61	Distraction From Itch Shows Brainstem Activation Without Reduction in Experimental Itch Sensation. <i>Acta Dermato-Venereologica</i> , 2017 , 97, 1074-1080	2.2	6
60	Duration of effects of aspirin on platelet function in healthy volunteers: an analysis using the PFA-100. <i>Journal of Clinical Anesthesia</i> , 2006 , 18, 12-7	1.9	6
59	Postprandial interstitial insulin concentrations in type 2 diabetes relatives. <i>European Journal of Clinical Investigation</i> , 2006 , 36, 383-8	4.6	6
58	Slow depolarizing stimuli differentially activate mechanosensitive and silent C nociceptors in human and pig skin. <i>Pain</i> , 2020 , 161, 2119-2128	8	6
57	Schwann Cell Autocrine and Paracrine Regulatory Mechanisms, Mediated by Allopregnanolone and BDNF, Modulate PKC β in Peripheral Sensory Neurons. <i>Cells</i> , 2020 , 9,	7.9	6
56	A genome-wide screen reveals microRNAs in peripheral sensory neurons driving painful diabetic neuropathy. <i>Pain</i> , 2021 , 162, 1334-1351	8	6
55	Mechano-sensitive nociceptors are required to detect heat pain thresholds and cowhage itch in human skin. <i>European Journal of Pain</i> , 2016 , 20, 215-22	3.7	6
54	Impaired glyoxalase activity is associated with reduced expression of neurotrophic factors and pro-inflammatory processes in diabetic skin cells. <i>Experimental Dermatology</i> , 2017 , 26, 44-50	4	5
53	Involvement of small nerve fibres and autonomic nervous system in AL amyloidosis: comprehensive characteristics and clinical implications. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2020 , 27, 103-110	2.7	5
52	Evaluation of the effects of a metabotropic glutamate receptor 5-antagonist on electrically induced pain and central sensitization in healthy human volunteers. <i>European Journal of Pain</i> , 2013 , 17, 1465-71	3.7	5
51	Objective assessment of C-fiber function by electrically induced axon reflex flare in patients with axonal and demyelinating polyneuropathy. <i>Journal of Clinical Neurophysiology</i> , 2013 , 30, 422-7	2.2	5
50	Time course of acetylcholine-induced activation of sympathetic efferents matches axon reflex sweating in humans. <i>Journal of the Peripheral Nervous System</i> , 2011 , 16, 30-6	4.7	5
49	Experimental thermal lesions induce beta-thromboglobulin release from activated platelets. <i>European Journal of Pain</i> , 2011 , 15, 23-8	3.7	5
48	Reduction of Pulmonary Edema by Short-Acting Local Anesthetics. <i>Regional Anesthesia and Pain Medicine</i> , 2006 , 31, 254-259	3.4	5
47	Single-Fiber Recordings of Nociceptive Fibers in Patients With HSAN Type V With Congenital Insensitivity to Pain. <i>Clinical Journal of Pain</i> , 2016 , 32, 636-42	3.5	4
46	Sensitized pain response to bradykinin after sunburn - a human model for ongoing inflammatory pain?. <i>Pain</i> , 2013 , 154, 769-770	8	4
45	Axonal GABA stabilizes excitability in unmyelinated sensory axons secondary to NKCC1 activity. <i>Journal of Physiology</i> , 2021 , 599, 4065-4084	3.9	4
44	Laser-evoked potentials mediated by mechano-insensitive nociceptors in human skin. <i>European Journal of Pain</i> , 2016 , 20, 845-54	3.7	4

43	Nerve growth factor sensitizes nociceptors to C-fibre selective supra-threshold electrical stimuli in human skin. <i>European Journal of Pain</i> , 2021 , 25, 385-397	3.7	4
42	TTX-Resistant Sodium Channels Functionally Separate Silent From Polymodal C-nociceptors. <i>Frontiers in Cellular Neuroscience</i> , 2020 , 14, 13	6.1	3
41	Selective Nerve Fibre Activation in Patients with Generalized Chronic Pruritus: Hint for Central Sensitization?. <i>Acta Dermato-Venereologica</i> , 2019 , 99, 1009-1015	2.2	3
40	Discriminative sensory characteristics of the lateral femoral cutaneous nerve after mepivacaine-induced block. <i>Scandinavian Journal of Pain</i> , 2013 , 4, 95-100	1.9	3
39	Sunburn-A human inflammatory pain model for primary and secondary hyperalgesia. <i>Scandinavian Journal of Pain</i> , 2013 , 4, 38-39	1.9	3
38	Reduction of pulmonary edema by short-acting local anesthetics. <i>Regional Anesthesia and Pain Medicine</i> , 2006 , 31, 254-9	3.4	3
37	Altered central excitability and analgesic treatment in patients with restless legs syndrome. <i>Brain</i> , 2005 , 128, E34	11.2	3
36	Single-Unit Recordings of Afferent Human Peripheral Nerves by Microneurography 2005 , 1003-1014		3
35	Maximum axonal following frequency separates classes of cutaneous unmyelinated nociceptors in the pig. <i>Journal of Physiology</i> , 2021 , 599, 1595-1610	3.9	3
34	Sensory Qualities Point to Different Structural and Functional Skin Patterns in Chronic Pruritus Patients. A Translational Explorative Study. <i>Acta Dermato-Venereologica</i> , 2019 , 99, 668-674	2.2	2
33	Nociceptors in the skin: fire-raisers to be kept at bay?. <i>Experimental Dermatology</i> , 2015 , 24, 732-3	4	2
32	Schmerzchronifizierung. <i>Trauma Und Berufskrankheit</i> , 2007 , 9, S103-S106	0	2
31	Different lipid profiles as constituencies of liquid formula diets do not influence pain perception and the efficacy of opioids in a human model of acute pain and hyperalgesia. <i>Pain</i> , 2003 , 104, 519-527	8	2
30	Transcutaneous Slowly Depolarizing Currents Elicit Pruritus in Patients with Atopic Dermatitis. <i>Acta Dermato-Venereologica</i> , 2020 , 100, adv00302	2.2	2
29	How Do Neurons Signal Itch?. <i>Frontiers in Medicine</i> , 2021 , 8, 643006	4.9	2
28	Sympathetic efferent neurons are less sensitive than nociceptors to 4 Hz sinusoidal stimulation. <i>European Journal of Pain</i> , 2020 , 24, 122-133	3.7	2
27	Decreased Axon Flare Reaction to Electrical Stimulation in Patients With Chronic Demyelinating Inflammatory Polyneuropathy. <i>Journal of Clinical Neurophysiology</i> , 2017 , 34, 101-106	2.2	1
26	Objective Methods for Breast Sensibility Testing. <i>Plastic and Reconstructive Surgery</i> , 2019 , 143, 398-404	2.7	1

25	Peripheral input and phantom limb pain: A somatosensory event-related potential study. <i>European Journal of Pain</i> , 2020 , 24, 1314-1329	3.7	1
24	Isolation and cultivation of primary keratinocytes from piglet skin for compartmentalized co-culture with dorsal root ganglion neurons. <i>Journal of Cellular Biotechnology</i> , 2017 , 2, 93-115	1.4	1
23	Long-acting local anesthetics attenuate FMLP-induced acute lung injury in rats. <i>Anesthesia and Analgesia</i> , 2009 , 109, 880-5	3.9	1
22	Human in-vivo bioassay for the tissue-specific measurement of nociceptive and inflammatory mediators. <i>Journal of Visualized Experiments</i> , 2008 ,	1.6	1
21	Effects of gender and level of surgical sympathetic block on vasoconstrictor function. <i>Clinical Autonomic Research</i> , 2003 , 13 Suppl 1, 174-8	4.3	1
20	Viewpoint 4. <i>Experimental Dermatology</i> , 2005 , 14, 230-231	4	1
19	Microinjection of pruritogens in NGF-sensitized human skin. <i>Scientific Reports</i> , 2021 , 11, 21490	4.9	1
18	Itch 2006 , 219-227		1
17	Interaction of Pruritus and Pain 2010 , 33-36		1
16	Reply to Vollert et al. <i>Pain</i> , 2021 , 162, 1274-1275	8	1
15	Simple but Complex: A Laying Hen Study as Proof of Concept of a Novel Method for Cognitive Enrichment and Research. <i>Frontiers in Animal Science</i> , 2021 , 2,		1
14	Does spontaneous activity in C-nociceptors provide a readout to quantify neuropathic pain?. <i>Pain</i> , 2012 , 153, 5-6	8	0
13	A systematic review of porcine models in translational pain research. <i>Lab Animal</i> , 2021 , 50, 313-326	0.4	0
12	Reply to Bordeleau et al. <i>Pain</i> , 2021 , 162, 2780	8	0
11	Exploratory Study of Intracutaneous Histamine Stimulation in Patient Populations with Chronic Pruritus. <i>Acta Dermato-Venereologica</i> , 2019 , 99, 291-297	2.2	0
10	Mechanical sensitization, increased axonal excitability, and spontaneous activity in C-nociceptors after ultraviolet B irradiation in pig skin. <i>Pain</i> , 2021 , 162, 2002-2013	8	0
9	On the pharmacological effects of two lidocaine concentrations tested on spontaneous and evoked pain in human painful neuroma: A new clinical model of neuropathic pain. <i>Scandinavian Journal of Pain</i> , 2013 , 4, 258	1.9	
8	Local nociceptor sensitization with NGF: mechanical or heat hyperalgesia [à carte?]. <i>European Journal of Pain</i> , 2013 , 17, 467-8	3.7	

- 7 Chapter 18 Itch and cold allodynia. *Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn*, **2006**, 81, 249-60 3
- 6 Differential effects of surgical sympathetic block at the T2 and T4 level on vasoconstrictor function. *Clinical Autonomic Research*, **2003**, 13 Suppl 1, I79-82 4-3
- 5 Prurito **2007**, 221-229
- 4 Modulation of Pruritus: Peripheral and Central Sensitization **2016**, 39-47
- 3 Interaction of Pruritus and Pain **2016**, 33-38
- 2 Modulation of Pruritus: Peripheral and Central Sensitisation **2010**, 27-31
- 1 Bradykinin-Induced Sensitization of Transient Receptor Potential Channel Melastatin 3 Calcium Responses in Mouse Nociceptive Neurons.. *Frontiers in Cellular Neuroscience*, **2022**, 16, 843225 6.1