Michael Schaefer

List of Publications by Year
in descending order

95 papers	4,384 citations	109137 35 h-index	114278 63 g-index
107 all docs	107 docs citations	107 times ranked	3654 citing authors

#	Article	IF	Citations
1	Attacking pain at its source: new perspectives on opioids. Nature Medicine, 2003, 9, 1003-1008.	15.2	535
2	Opioid Peptideâ€“expressing Leukocytes. Anesthesiology, 2001, 95, 500-508.	1.3	206
3	Subcellular Pathways of Î²-Endorphin Synthesis, Processing, and Release from Immunocytes in Inflammatory Pain. Endocrinology, 2004, 145, 1331-1341.	1.4	161
4	European Pain Federation (<scp>EFIC</scp>) position paper on appropriate use of cannabisâ€based medicines and medical cannabis for chronic pain management. European Journal of Pain, 2018, 22, 1547-1564.	1.4	149
5	TRPV1 Acts as Proton Channel to Induce Acidification in Nociceptive Neurons. Journal of Biological Chemistry, 2004, 279, 34553-34561.	1.6	134
6	Î¼-Opioid Receptor Activation Modulates Transient Receptor Potential Vanilloid 1 (TRPV1) Currents in Sensory Neurons in A Model of Inflammatory Pain. Molecular Pharmacology, 2007, 71, 12-18.	1.0	131
7	Sympathetic activation triggers endogenous opioid release and analgesia within peripheral inflamed tissue. European Journal of Neuroscience, 2004, 20, 92-100.	1.2	124
8	Immunohistochemical localization of endomorphin-1 and endomorphin-2 in immune cells and spinal cord in a model of inflammatory pain. Journal of Neuroimmunology, 2002, 126, 5-15.	1.1	120
9	Control of inflammatory pain by chemokine-mediated recruitment of opioid-containing polymorphonuclear cells. Pain, 2004, 112, 229-238.	2.0	115
10	Relative contribution of peripheral versus central opioid receptors to antinociception. Brain Research, 2007, 1160, 30-38.	1.1	111
11	Pain control by CXCR2 ligands through Ca 2+ â€regulated release of opioid peptides from polymorphonuclear cells. FASEB Journal, 2006, 20, 2627-2629.	0.2	110
12	Â-Endorphin, Met-enkephalin and corresponding opioid receptors within synovium of patients with joint trauma, osteoarthritis and rheumatoid arthritis. Annals of the Rheumatic Diseases, 2007, 66, 871-879.	0.5	105
13	Chronic morphine use does not induce peripheral tolerance in a rat model of inflammatory pain. Journal of Clinical Investigation, 2008, 118, 1065-73.	3.9	105
14	Nerve growth factor governs the enhanced ability of opioids to suppress inflammatory pain. Brain, 2007, 130, 502-513.	3.7	100
15	Selective local PMN recruitment by CXCL1 or CXCL2/3 injection does not cause inflammatory pain. Journal of Leukocyte Biology, 2006, 79, 1022-1032.	1.5	81
16	Characterization of Î¼ Opioid Receptor Binding and G Protein Coupling in Rat Hypothalamus, Spinal Cord, and Primary Afferent Neurons during Inflammatory Pain. Journal of Pharmacology and Experimental Therapeutics, 2004, 308, 712-718.	1.3	79
17	Mycobacteria Attenuate Nociceptive Responses by Formyl Peptide Receptor Triggered Opioid Peptide Release from Neutrophils. PLoS Pathogens, 2009, 5, e1000362.	2.1	79
18	Endogenous peripheral antinociception in early inflammation is not limited by the number of opioid-containing leukocytes but by opioid receptor expression. Pain, 2004, 108, 67-75.	2.0	72

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19	Systematic review of tapentadol in chronic severe pain. Current Medical Research and Opinion, 2011, 27, 1907-1930.	0.9	70
20	Management of acute pain in the postoperative setting: the importance of quality indicators. Current Medical Research and Opinion, 2018, 34, 187-196.	0.9	62
21	Lymphocytes upregulate signal sequence-encoding proopiomelanocortin mRNA and beta-endorphin during painful inflammation in vivo. Journal of Neuroimmunology, 2007, 183, 133-145.	1.1	61
22	Enhanced Postoperative Sensitivity to Painful Pressure Stimulation After Intraoperative High Dose Remifentanil in Patients Without Significant Surgical Site Pain. Clinical Journal of Pain, 2007, 23, 605-611.	0.8	59
23	Opioid withdrawal increases transient receptor potential vanilloid 1 activity in a protein kinase A-dependent manner. Pain, 2013, 154, 598-608.	2.0	54
24	Selectins and integrins but not platelet-endothelial cell adhesion molecule-1 regulate opioid inhibition of inflammatory pain. British Journal of Pharmacology, 2004, 142, 772-780.	2.7	53
25	CXCR1/2 ligands induce p38 MAPK-dependent translocation and release of opioid peptides from primary granules in vitro and in vivo. Brain, Behavior, and Immunity, 2007, 21, 1021-1032.	2.0	53
26	The presence of mu-, delta-, and kappa-opioid receptors in human heart tissue. Heart and Vessels, 2014, 29, 855-863.	0.5	53
27	Make a CHANGE: optimising communication and pain management decisions. Current Medical Research and Opinion, 2011, 27, 481-488.	0.9	48
28	Involvement of Intra-articular Corticotropin-releasing Hormone in Postoperative Pain Modulation. Clinical Journal of Pain, 2007, 23, 136-142.	0.8	47
29	Inhibition of Inflammatory Pain by CRF at Peripheral, Spinal and Supraspinal Sites: Involvement of Areas Coexpressing CRF Receptors and Opioid Peptides. Neuropsychopharmacology, 2007, 32, 2530-2542.	2.8	44
30	Membrane-bound glucocorticoid receptors on distinct nociceptive neurons as potential targets for pain control through rapid non-genomic effects. Neuropharmacology, 2016, 111, 1-13.	2.0	44
31	Rab7 Silencing Prevents Î¼-Opioid Receptor Lysosomal Targeting and Rescues Opioid Responsiveness to Strengthen Diabetic Neuropathic Pain Therapy. Diabetes, 2013, 62, 1308-1319.	0.3	41
32	S2k guidelines for the diagnosis and treatment of herpes zoster and postherpetic neuralgia. JDDG - Journal of the German Society of Dermatology, 2020, 18, 55-78.	0.4	41
33	Treatment for chronic low back pain: the focus should change to multimodal management that reflects the underlying pain mechanisms. Current Medical Research and Opinion, 2017, 33, 1199-1210.	0.9	39
34	Impaired Nociception and Peripheral Opioid Antinociception in Mice Lacking Both Kinin B1 and B2 Receptors. Anesthesiology, 2012, 116, 448-457.	1.3	38
35	Reduced Number, G Protein Coupling, and Antinociceptive Efficacy of Spinal Mu-Opioid Receptors in Diabetic Rats Are Reversed by Nerve Growth Factor. Journal of Pain, 2013, 14, 720-730.	0.7	36
36	Regional Sympathetic Blockade Attenuates Activation of Intestinal Macrophages and Reduces Gut Barrier Failure. Anesthesiology, 2013, 118, 134-142.	1.3	36

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37	Effects of thoracic epidural anaesthesia on intestinal microvascular perfusion in a rodent model of normotensive endotoxaemia. Intensive Care Medicine, 2004, 30, 2094-2101.	3.9	35
38	Neurokinin-1 Receptor Antagonists Inhibit the Recruitment of Opioid-containing Leukocytes and Impair Peripheral Antinociception. Anesthesiology, 2007, 107, 1009-1017.	1.3	35
39	Topical Fentanyl in a Randomized, Double-blind Study in Patients With Corneal Damage. Clinical Journal of Pain, 2008, 24, 690-696.	0.8	33
40	The phenothiazine-class antipsychotic drugs prochlorperazine and trifluoperazine are potent allosteric modulators of the human P2X7 receptor. Neuropharmacology, 2013, 75, 365-379.	2.0	31
41	Involvement of the peripheral sensory and sympathetic nervous system in the vascular endothelial expression of ICAM-1 and the recruitment of opioid-containing immune cells to inhibit inflammatory pain. Brain, Behavior, and Immunity, 2010, 24, 1310-1323.	2.0	30
42	The central versus peripheral antinociceptive effects of Î¼-opioid receptor agonists in the new model of rat visceral pain. Brain Research Bulletin, 2012, 87, 238-243.	1.4	28
43	The Peripheral Versus Central Antinociception of a Novel Opioid Agonist: Acute Inflammatory Pain in Rats. Neurochemical Research, 2018, 43, 1250-1257.	1.6	28
44	Acute mechanical sensitization of peripheral nociceptors by aldosterone through non-genomic activation of membrane bound mineralocorticoid receptors in naive rats. Neuropharmacology, 2016, 107, 251-261.	2.0	27
45	Volume therapy with colloid solutions preserves intestinal microvascular perfusion in endotoxaemia. Resuscitation, 2008, 76, 120-128.	1.3	26
46	Enkephalin, its precursor, processing enzymes, and receptor as part of a local opioid network throughout the respiratory system of lung cancer patients. Human Pathology, 2010, 41, 632-642.	1.1	26
47	New insights into mechanisms of opioid inhibitory effects on capsaicin-induced TRPV1 activity during painful diabetic neuropathy. Neuropharmacology, 2014, 85, 142-150.	2.0	26
48	Peripheral Non-Viral MIDGE Vector-Driven Delivery of Î²-Endorphin in Inflammatory Pain. Molecular Pain, 2009, 5, 1744-8069-5-72.	1.0	25
49	Identification of Î¼â€•and Îºâ€opioid receptors as potential targets to regulate parasympathetic, sympathetic, and sensory neurons within rat intracardiac ganglia. Journal of Comparative Neurology, 2010, 518, 3836-3847.	0.9	24
50	Developmental expression of Î´â€opioid receptors during maturation of the parasympathetic, sympathetic, and sensory innervations of the neonatal heart: Early targets for opioid regulation of autonomic control. Journal of Comparative Neurology, 2011, 519, 957-971.	0.9	24
51	Non-invasive patient-controlled analgesia in the management of acute postoperative pain in the hospital setting. Current Medical Research and Opinion, 2018, 34, 1179-1186.	0.9	24
52	Pro- versus Antinociceptive Nongenomic Effects of Neuronal Mineralocorticoid versus Glucocorticoid Receptors during Rat Hind Paw Inflammation. Anesthesiology, 2018, 128, 796-809.	1.3	24
53	Protein kinase C-mediated mu-opioid receptor phosphorylation and desensitization in rats, and its prevention during early diabetes. Pain, 2016, 157, 910-921.	2.0	23
54	New Morphine Analogs Produce Peripheral Antinociception within a Certain Dose Range of Their Systemic Administration. Journal of Pharmacology and Experimental Therapeutics, 2016, 359, 171-181.	1.3	23

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55	Thoracic Epidural Anesthesia Attenuates Endotoxin-induced Impairment of Gastrointestinal Organ Perfusion. Anesthesiology, 2010, 113, 126-133.	1.3	21
56	Influence of high-dose intraoperative remifentanil with or without amantadine on postoperative pain intensity and morphine consumption in major abdominal surgery patients. European Journal of Anaesthesiology, 2014, 31, 41-49.	0.7	20
57	Lack of functional P2X7 receptor aggravates brain edema development after middle cerebral artery occlusion. Purinergic Signalling, 2016, 12, 453-463.	1.1	20
58	Local pulmonary opioid network in patients with lung cancer: a putative modulator of respiratory function. Pharmacological Reports, 2010, 62, 139-149.	1.5	19
59	Peripheral antinociceptive efficacy and potency of a novel opioid compound 14- O -MeM6SU in comparison to known peptide and non-peptide opioid agonists in a rat model of inflammatory pain. European Journal of Pharmacology, 2013, 713, 54-57.	1.7	19
60	A Modified Approach to Induce Predictable Congestive Heart Failure by Volume Overload in Rats. PLoS ONE, 2014, 9, e87531.	1.1	19
61	p38 Mitogenâ€“activated Protein Kinase Activation by Nerve Growth Factor in Primary Sensory Neurons Upregulates Î¼-Opioid Receptors to Enhance Opioid Responsiveness Toward Better Pain Control. Anesthesiology, 2011, 114, 150-161.	1.3	18
62	The Transactivated Epidermal Growth Factor Receptor Recruits Pyk2 to Regulate Src Kinase Activity. Journal of Biological Chemistry, 2008, 283, 27748-27756.	1.6	17
63	Efficacy-Based Perspective to Overcome Reduced Opioid Analgesia of Advanced Painful Diabetic Neuropathy in Rats. Frontiers in Pharmacology, 2019, 10, 347.	1.6	17
64	Accessibility of axonal G protein coupled mu-opioid receptors requires conceptual changes of axonal membrane targeting for pain modulation. Journal of Controlled Release, 2017, 268, 352-363.	4.8	16
65	Pathological alterations in liver injury following congestive heart failure induced by volume overload in rats. PLoS ONE, 2017, 12, e0184161.	1.1	16
66	Aldosterone Synthase in Peripheral Sensory Neurons Contributes to Mechanical Hypersensitivity during Local Inflammation in Rats. Anesthesiology, 2020, 132, 867-880.	1.3	15
67	Transient receptor potential ankyrin 1 (TRPA1) channel activation by the thienopyridine-type drugs ticlopidine, clopidogrel, and prasugrel. Cell Calcium, 2014, 55, 200-207.	1.1	14
68	Upregulation of the kappa opioidergic system in left ventricular rat myocardium in response to volume overload. Pharmacological Research, 2015, 102, 33-41.	3.1	14
69	TRPM7 is a molecular substrate of ATP-evoked P2X7-like currents in tumor cells. Journal of General Physiology, 2016, 147, 467-483.	0.9	14
70	Comparative Expression Analyses of Pro- versus Anti-Inflammatory Mediators within Synovium of Patients with Joint Trauma, Osteoarthritis, and Rheumatoid Arthritis. Mediators of Inflammation, 2017, 2017, 1-11.	1.4	14
71	Cellular localization and adaptive changes of the cardiac delta opioid receptor system in an experimental model of heart failure in rats. Heart and Vessels, 2016, 31, 241-250.	0.5	13
72	Histopathological Changes in the Kidney following Congestive Heart Failure by Volume Overload in Rats. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-10.	1.9	13

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73	Thoracic epidural anesthesia decreases endotoxin-induced endothelial injury. BMC Anesthesiology, 2014, 14, 23.	0.7	12
74	Direct Activation of TRPC3 Channels by the Antimalarial Agent Artemisinin. Cells, 2020, 9, 202.	1.8	12
75	Peripheral opioid analgesia: Clinical applications. Current Pain and Headache Reports, 2005, 9, 36-44.	1.3	11
76	Prospective clinical observational study evaluating gender-associated differences of preoperative pain intensity. Medicine (United States), 2016, 95, e4077.	0.4	9
77	Novel concepts for analgesia in severe painâ€"current strategies and future innovations. European Journal of Pain Supplements, 2009, 3, 6-10.	0.0	8
78	Evidence for MOR on cell membrane, sarcoplasmatic reticulum and mitochondria in left ventricular myocardium in rats. Heart and Vessels, 2016, 31, 1380-1388.	0.5	8
79	Dynorphin expression, processing and receptors in the alveolar macrophages, cancer cells and bronchial epithelium of lung cancer patients. Histology and Histopathology, 2010, 25, 755-64.	0.5	8
80	Identification of mineralocorticoid and glucocorticoid receptors on peripheral nociceptors: Translation of experimental findings from animal to human biology. Brain Research, 2019, 1712, 180-187.	1.1	7
81	Neuronal aldosterone elicits a distinct genomic response in pain signaling molecules contributing to inflammatory pain. Journal of Neuroinflammation, 2020, 17, 183.	3.1	7
82	A new human adipocyte model with PTEN haploinsufficiency. Adipocyte, 2020, 9, 290-301.	1.3	7
83	Chronic Naltrexone Therapy Is Associated with Improved Cardiac Function in Volume Overloaded Rats. Cardiovascular Drugs and Therapy, 2021, 35, 733-743.	1.3	5
84	Natural orifice transluminal endoscopic surgery (NOTES): implications for anesthesia. F1000 Medicine Reports, 2009, 1, .	2.9	5
85	Valdecoxib blocks rat TRPV2 channels. European Journal of Pharmacology, 2022, 915, 174702.	1.7	4
86	The painful Toll of ethanol and its metabolites: A new molecular pattern of recognition by Toll-like receptors?. Brain, Behavior, and Immunity, 2013, 30, 22-23.	2.0	3
87	Prostanoid Receptor Subtypes and Its Endogenous Ligands with Processing Enzymes within Various Types of Inflammatory Joint Diseases. Mediators of Inflammation, 2020, 2020, 1-13.	1.4	3
88	Functional and Anatomical Characterization of Corticotropin-Releasing Factor Receptor Subtypes of the Rat Spinal Cord Involved in Somatic Pain Relief. Molecular Neurobiology, 2021, 58, 5459-5472.	1.9	3
89	Identification of Mineralocorticoid Receptors, Aldosterone, and Its Processing Enzyme CYP11B2 on Parasympathetic and Sympathetic Neurons in Rat Intracardiac Ganglia. Frontiers in Neuroanatomy, 2021, 15, 802359.	0.9	3
90	Empathy-Related Brain Activity in Somatosensory Cortex Protects From Tactile Priming Effects: A Pilot Study. Frontiers in Human Neuroscience, 2020, 14, 142.	1.0	2

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91	Patientsâ€™ selfâ€reported physical and psychological effects of opioid use in chronic noncancer pain â€“ a retrospective crossâ€sectional analysis. European Journal of Pain, 2021, , .	1.4	2
92	PAIN EDUCATION â€“ a modular learning approach. Current Medical Research and Opinion, 2011, 27, 2081-2082.	0.9	0
93	Diagnostic Performance of Self-Assessment for Constipation in Patients With Long-Term Opioid Treatment. Medicine (United States), 2015, 94, e2227.	0.4	0
94	Pharmacotherapy in Pain Patients with Substance Abuse. Journal of Pain and Palliative Care Pharmacotherapy, 2015, 29, 59-60.	0.5	0
95	Self-Reported Practices and Emotions in Prescribing Opioids for Chronic Noncancer Pain: A Cross-Sectional Study of German Physicians. Journal of Clinical Medicine, 2022, 11, 2506.	1.0	0