

Karl Messlinger

List of Publications by Year in descending order

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Version: 2024-02-01

86
papers

3,464
citations

147801

31
h-index

144013

57
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93
all docs

93
docs citations

93
times ranked

2729
citing authors

#	ARTICLE	IF	CITATIONS
1	Activation of the trigeminal system as a likely target of SARS-CoV-2 may contribute to anosmia in COVID-19. <i>Cephalalgia</i> , 2022, 42, 176-180.	3.9	19
2	Nitroxyl Delivered by Angeliâ€™s Salt Causes Short-Lasting Activation Followed by Long-Lasting Deactivation of Meningeal Afferents in Models of Headache Generation. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2330.	4.1	0
3	Petasites for Migraine Prevention: New Data on Mode of Action, Pharmacology and Safety. A Narrative Review. <i>Frontiers in Neurology</i> , 2022, 13, 864689.	2.4	2
4	Cyclic changes of sensory parameters in migraine patients. <i>Cephalalgia</i> , 2022, 42, 1148-1159.	3.9	1
5	The Anti-CGRP Antibody Fremanezumab Lowers CGRP Release from Rat Dura Mater and Meningeal Blood Flow. <i>Cells</i> , 2022, 11, 1768.	4.1	12
6	Responses of spinal trigeminal neurons to noxious stimulation of paranasal cavities â€™ a rat model of rhinosinusitis headache. <i>Cephalalgia</i> , 2021, 41, 535-545.	3.9	2
7	Craniofacial sensations induced by transient changes of barometric pressure in healthy subjects â€™ A crossover pilot study. <i>Cephalalgia Reports</i> , 2021, 4, 251581632110003.	0.7	3
8	Petasin and isopetasin reduce CGRP release from trigeminal afferents indicating an inhibitory effect on TRPA1 and TRPV1 receptor channels. <i>Journal of Headache and Pain</i> , 2021, 22, 23.	6.0	12
9	Excitatory Effects of Calcitonin Gene-Related Peptide (CGRP) on Superficial Sp5C Neurons in Mouse Medullary Slices. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3794.	4.1	6
10	CGRP measurements in human plasma â€™ a methodological study. <i>Cephalalgia</i> , 2021, 41, 1359-1373.	3.9	13
11	CGRP outflow into jugular blood and cerebrospinal fluid and permeance for CGRP of rat dura mater. <i>Journal of Headache and Pain</i> , 2021, 22, 105.	6.0	6
12	The chicken and egg problem: CGRP release due to trigeminal activation or vice versa?. <i>Cephalalgia</i> , 2021, , 033310242110423.	3.9	3
13	Transient activation of spinal trigeminal neurons in a rat model of hypoxia-induced headache. <i>Pain</i> , 2021, 162, 1153-1162.	4.2	5
14	Highâ€™dose phenylephrine increases meningeal blood flow through TRPV1 receptor activation and release of calcitonin geneâ€™related peptide. <i>European Journal of Pain</i> , 2020, 24, 383-397.	2.8	10
15	Migraine and aura triggered by normobaric hypoxia. <i>Cephalalgia</i> , 2020, 40, 1561-1573.	3.9	16
16	Reactive dicarbonyl compounds cause Calcitonin Gene-Related Peptide release and synergize with inflammatory conditions in mouse skin and peritoneum. <i>Journal of Biological Chemistry</i> , 2020, 295, 6330-6343.	3.4	4
17	Cross-talk signaling in the trigeminal ganglion: role of neuropeptides and other mediators. <i>Journal of Neural Transmission</i> , 2020, 127, 431-444.	2.8	68
18	TRP Channels in the Focus of Trigeminal Nociceptor Sensitization Contributing to Primary Headaches. <i>International Journal of Molecular Sciences</i> , 2020, 21, 342.	4.1	37

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19	Cyclic changes in sensations to painful stimuli in migraine patients. <i>Cephalalgia</i> , 2019, 39, 585-596.	3.9	14
20	Pre- and postoperative headache in patients with meningioma. <i>Cephalalgia</i> , 2019, 39, 533-543.	3.9	7
21	Current understanding of trigeminal ganglion structure and function in headache. <i>Cephalalgia</i> , 2019, 39, 1661-1674.	3.9	97
22	Why is the therapeutic effect of acute antimigraine drugs delayed? A review of controlled trials and hypotheses about the delay of effect. <i>British Journal of Clinical Pharmacology</i> , 2019, 85, 2487-2498.	2.4	6
23	Photoactivation of olfactory sensory neurons does not affect action potential conduction in individual trigeminal sensory axons innervating the rodent nasal cavity. <i>PLoS ONE</i> , 2019, 14, e0211175.	2.5	4
24	Cardio- and cerebrovascular safety of erenumab, a monoclonal antibody targeting CGRP receptors – important studies on human isolated arteries. <i>Cephalalgia</i> , 2019, 39, 1731-1734.	3.9	8
25	Sumatriptan activates TRPA1. <i>Cephalalgia Reports</i> , 2019, 2, 251581631984715.	0.7	1
26	Chronic adriamycin treatment impairs CGRP-mediated functions of meningeal sensory nerves. <i>Neuropeptides</i> , 2018, 69, 46-52.	2.2	6
27	Effect of a calcitonin gene-related peptide-binding L-RNA aptamer on neuronal activity in the rat spinal trigeminal nucleus. <i>Journal of Headache and Pain</i> , 2018, 19, 3.	6.0	9
28	The big CGRP flood - sources, sinks and signalling sites in the trigeminovascular system. <i>Journal of Headache and Pain</i> , 2018, 19, 22.	6.0	94
29	Differential conduction and CGRP release in visceral versus cutaneous peripheral nerves in the mouse. <i>Journal of Neuroscience Research</i> , 2018, 96, 1398-1405.	2.9	3
30	Putative role of 5-HT _{2B} receptors in migraine pathophysiology. <i>Cephalalgia</i> , 2017, 37, 365-371.	3.9	23
31	Possible role of calcitonin gene-related peptide in trigeminal modulation of glomerular microcircuits of the rodent olfactory bulb. <i>European Journal of Neuroscience</i> , 2017, 45, 587-600.	2.6	15
32	Stimulation of rat cranial dura mater with potassium chloride causes CGRP release into the cerebrospinal fluid and increases medullary blood flow. <i>Neuropeptides</i> , 2017, 64, 61-68.	2.2	23
33	Hydrogen Sulfide Mediating both Excitatory and Inhibitory Effects in a Rat Model of Meningeal Nociception and Headache Generation. <i>Frontiers in Neurology</i> , 2017, 8, 336.	2.4	19
34	Commentary: Cholinergic Nociceptive Mechanisms in Rat Meninges and Trigeminal Ganglia: Potential Implications for Migraine Pain. <i>Frontiers in Neurology</i> , 2017, 8, 623.	2.4	0
35	ATP-sensitive muscle afferents activate spinal trigeminal neurons with meningeal afferent input in rat – pathophysiological implications for tension-type headache. <i>Journal of Headache and Pain</i> , 2016, 17, 75.	6.0	11
36	Vessel diameter measurements at the medullary brainstem in vivo as an index of trigeminal activity. <i>Brain Research</i> , 2016, 1632, 51-57.	2.2	5

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37	Meningeal blood flow is controlled by H_2S -NO crosstalk activating a HNO_1 -TRPA1-CGRP signalling pathway. <i>British Journal of Pharmacology</i> , 2016, 173, 431-445.	5.4	53
38	Hydrogen sulfide determines HNO-induced stimulation of trigeminal afferents. <i>Neuroscience Letters</i> , 2015, 602, 104-109.	2.1	19
39	Anatomy of Headache. <i>Headache</i> , 2015, , 1-29.	0.4	7
40	Activity-dependent sensory signal processing in mechanically responsive slowly conducting meningeal afferents. <i>Journal of Neurophysiology</i> , 2014, 112, 3077-3085.	1.8	8
41	Release of CGRP from mouse brainstem slices indicates central inhibitory effect of triptans and kynurenate. <i>Journal of Headache and Pain</i> , 2014, 15, 7.	6.0	38
42	Innervation of Rat and Human Dura Mater and Pericranial Tissues in the Parieto-Temporal Region by Meningeal Afferents. <i>Headache</i> , 2014, 54, 996-1009.	3.9	111
43	H ₂ S and NO cooperatively regulate vascular tone by activating a neuroendocrine HNO ¹ -TRPA1-CGRP signalling pathway. <i>Nature Communications</i> , 2014, 5, 4381.	12.8	324
44	Extracranial projections of meningeal afferents and their impact on meningeal nociception and headache. <i>Pain</i> , 2013, 154, 1622-1631.	4.2	125
45	Changes in calcitonin gene-related peptide (CGRP) receptor component and nitric oxide receptor (sGC) immunoreactivity in rat trigeminal ganglion following glyceroltrinitrate pretreatment. <i>Journal of Headache and Pain</i> , 2013, 14, 74.	6.0	31
46	The calcitonin gene-related peptide receptor antagonist MK-8825 decreases spinal trigeminal activity during nitroglycerin infusion. <i>Journal of Headache and Pain</i> , 2013, 14, 93.	6.0	26
47	Repetitive activity slows axonal conduction velocity and concomitantly increases mechanical activation threshold in single axons of the rat cranial dura. <i>Journal of Physiology</i> , 2012, 590, 725-736.	2.9	46
48	Calcitonin gene-related peptide receptors in rat trigeminal ganglion do not control spinal trigeminal activity. <i>Journal of Neurophysiology</i> , 2012, 108, 431-440.	1.8	23
49	CGRP and NO in the Trigeminal System: Mechanisms and Role in Headache Generation. <i>Headache</i> , 2012, 52, 1411-1427.	3.9	108
50	Altered thermal sensitivity in neurons injured by infraorbital nerve lesion. <i>Neuroscience Letters</i> , 2011, 488, 168-172.	2.1	5
51	Neuropeptide Effects in the Trigeminal System: Pathophysiology and Clinical Relevance in Migraine. <i>Keio Journal of Medicine</i> , 2011, 60, 82-89.	1.1	96
52	Increase in CGRP- and nNOS-immunoreactive neurons in the rat trigeminal ganglion after infusion of an NO donor. <i>Cephalalgia</i> , 2011, 31, 31-42.	3.9	49
53	Increases in Neuronal Activity in Rat Spinal Trigeminal Nucleus Following Changes in Barometric Pressure—Relevance for Weather-Associated Headaches?. <i>Headache</i> , 2010, 50, 1449-1463.	3.9	37
54	Evidence for CGRP re-uptake in rat dura mater encephali. <i>British Journal of Pharmacology</i> , 2010, 161, 1885-1898.	5.4	34

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55	Measurement of meningeal blood vessel diameter in vivo with a plug-in for ImageJ. <i>Microvascular Research</i> , 2010, 80, 258-266.	2.5	85
56	Calcitonin gene-related peptide receptor antagonist olcegepant acts in the spinal trigeminal nucleus. <i>Brain</i> , 2009, 132, 3134-3141.	7.6	86
57	Glyceroltrinitrate facilitates stimulated CGRP release but not gene expression of CGRP or its receptor components in rat trigeminal ganglia. <i>Neuropeptides</i> , 2009, 43, 483-489.	2.2	25
58	Migraine: where and how does the pain originate?. <i>Experimental Brain Research</i> , 2009, 196, 179-193.	1.5	124
59	Neurogenic Vascular Responses in the Dura Mater and their Relevance for the Pathophysiology of Headaches. <i>NeuroImmune Biology</i> , 2009, 8, 191-209.	0.2	4
60	Temperature-dependent neuronal regulation of arterial blood flow in rat cranial dura mater. <i>Journal of Neuroscience Research</i> , 2008, 86, 158-164.	2.9	7
61	Calcitonin receptor-like receptor (CLR), receptor activity-modifying protein 1 (RAMP1), and calcitonin gene-related peptide (CGRP) immunoreactivity in the rat trigeminovascular system: Differences between peripheral and central CGRP receptor distribution. <i>Journal of Comparative Neurology</i> , 2008, 507, 1277-1299.	1.6	287
62	Calcitonin receptor-like receptor (CLR), receptor activity-modifying protein 1 (RAMP1), and calcitonin gene-related peptide (CGRP) immunoreactivity in the rat trigeminovascular system: Differences between peripheral and central CGRP receptor distribution. <i>Journal of Comparative Neurology</i> , 2008, 507, spc1-spc1.	1.6	0
63	Calcitonin receptor-like receptor (CLR), receptor activity-modifying protein 1 (RAMP1), and calcitonin gene-related peptide (CGRP) immunoreactivity in the rat trigeminovascular system: Differences between peripheral and central CGRP receptor distribution. <i>Journal of Comparative Neurology</i> , 2008, 507, spc1-spc1.	1.6	0
64	Conduction velocity is regulated by sodium channel inactivation in unmyelinated axons innervating the rat cranial meninges. <i>Journal of Physiology</i> , 2008, 586, 1089-1103.	2.9	137
65	Calcitonin gene-related peptide release from intact isolated dorsal root and trigeminal ganglia. <i>Neuropeptides</i> , 2008, 42, 311-317.	2.2	47
66	Release of calcitonin gene-related peptide from the jugular nodose ganglion complex in rats – A new model to examine the role of cardiac peptidergic and nitrergic innervation. <i>Neuropeptides</i> , 2008, 42, 543-550.	2.2	8
67	The calcitonin gene-related peptide (CGRP) receptor antagonist BIBN4096BS reduces neurogenic increases in dural blood flow. <i>European Journal of Pharmacology</i> , 2007, 562, 103-110.	3.5	30
68	Stimulated release of calcitonin gene-related peptide from the human right atrium in patients with and without diabetes mellitus. <i>Peptides</i> , 2006, 27, 3255-3260.	2.4	4
69	Inhibition of stimulated meningeal blood flow by a calcitonin gene-related peptide binding mirror-image RNA oligonucleotide. <i>British Journal of Pharmacology</i> , 2006, 148, 536-543.	5.4	34
70	Release of calcitonin gene-related peptide from the isolated mouse heart: Methodological validation of a new model. <i>Neuropeptides</i> , 2006, 40, 107-113.	2.2	12
71	Role of different proton-sensitive channels in releasing calcitonin gene-related peptide from isolated hearts of mutant mice. <i>Cardiovascular Research</i> , 2005, 65, 405-410.	3.8	36
72	Variable sensitivity to noxious heat is mediated by differential expression of the CGRP gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 12938-12943.	7.1	151

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73	The Nonpeptide Calcitonin Gene-Related Peptide Receptor Antagonist BIBN4096BS Lowers the Activity of Neurons with Meningeal Input in the Rat Spinal Trigeminal Nucleus. <i>Journal of Neuroscience</i> , 2005, 25, 5877-5883.	3.6	124
74	Biphasic Response to Nitric Oxide of Spinal Trigeminal Neurons With Meningeal Input in Rat – Possible Implications for the Pathophysiology of Headaches. <i>Journal of Neurophysiology</i> , 2004, 92, 1320-1328.	1.8	66
75	Effects of acetylsalicylic acid and morphine on neurons of the rostral ventromedial medulla in rat. <i>Neuroscience Research</i> , 2003, 47, 391-397.	1.9	19
76	Nitric Oxide Releases Calcitonin-Gene-Related Peptide from Rat Dura mater Encephali Promoting Increases in Meningeal Blood Flow. <i>Journal of Vascular Research</i> , 2002, 39, 489-496.	1.4	86
77	Possible role of histamine (H1 - and H2 -) receptors in the regulation of meningeal blood flow. <i>British Journal of Pharmacology</i> , 2002, 137, 874-880.	5.4	23
78	Modulation of neuronal activity in the nucleus raphae magnus by the 5-HT1-receptor agonist naratriptan in rat. <i>Pain</i> , 2001, 90, 227-231.	4.2	37
79	Meningeal nociception: Electrophysiological studies related to headache and referred pain. <i>Microscopy Research and Technique</i> , 2001, 53, 129-137.	2.2	22
80	Histological demonstration of increased vascular permeability in the dura mater of the rat. <i>Microscopy Research and Technique</i> , 2001, 53, 229-231.	2.2	5
81	Afferent input to the medullary dorsal horn from the contralateral face in rat. <i>Brain Research</i> , 1999, 826, 321-324.	2.2	16
82	Convergence of meningeal and facial afferents onto trigeminal brainstem neurons: an electrophysiological study in rat and man. <i>Pain</i> , 1999, 82, 229-237.	4.2	54
83	Release of immunoreactive substance P in the brain stem upon stimulation of the cranial dura mater with low pH - inhibition by the serotonin (5-HT1) receptor agonist CP 93,129. <i>British Journal of Pharmacology</i> , 1998, 125, 1726-1732.	5.4	21
84	Effects of the 5-HT1 receptor agonists sumatriptan and CP 93,129 on dural arterial flow in the rat. <i>European Journal of Pharmacology</i> , 1997, 332, 173-181.	3.5	30
85	Chapter 17. Functional morphology of nociceptive and other fine sensory endings (free nerve endings) in different tissues. <i>Progress in Brain Research</i> , 1996, 113, 273-298.	1.4	43
86	Increase of meningeal blood flow after electrical stimulation of rat dura mater encephali: mediation by calcitonin gene-related peptide. <i>British Journal of Pharmacology</i> , 1995, 114, 1397-1402.	5.4	130