

Markus Ploner

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73
papers

5,121
citations

32
h-index

71
g-index

87
ext. papers

6,060
ext. citations

7.4
avg, IF

5.62
L-index

#	Paper	IF	Citations
73	The effect of treatment expectation on drug efficacy: imaging the analgesic benefit of the opioid remifentanyl. <i>Science Translational Medicine</i> , 2011 , 3, 70ra14	17.5	490
72	Neurocognitive aspects of pain perception. <i>Trends in Cognitive Sciences</i> , 2008 , 12, 306-13	14	467
71	Anterior insula integrates information about salience into perceptual decisions about pain. <i>Journal of Neuroscience</i> , 2010 , 30, 16324-31	6.6	315
70	Neurophysiology and functional neuroanatomy of pain perception. <i>Journal of Clinical Neurophysiology</i> , 2000 , 17, 592-603	2.2	245
69	Gamma oscillations in human primary somatosensory cortex reflect pain perception. <i>PLoS Biology</i> , 2007 , 5, e133	9.7	243
68	Parallel activation of primary and secondary somatosensory cortices in human pain processing. <i>Journal of Neurophysiology</i> , 1999 , 81, 3100-4	3.2	229
67	Prestimulus functional connectivity determines pain perception in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 355-60	11.5	222
66	Differential coding of pain intensity in the human primary and secondary somatosensory cortex. <i>Journal of Neurophysiology</i> , 2001 , 86, 1499-503	3.2	206
65	Cortical representation of first and second pain sensation in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 12444-8	11.5	174
64	Brain Rhythms of Pain. <i>Trends in Cognitive Sciences</i> , 2017 , 21, 100-110	14	165
63	Differential organization of touch and pain in human primary somatosensory cortex. <i>Journal of Neurophysiology</i> , 2000 , 83, 1770-6	3.2	160
62	Pain affect without pain sensation in a patient with a postcentral lesion. <i>Pain</i> , 1999 , 81, 211-4	8	149
61	Brain imaging tests for chronic pain: medical, legal and ethical issues and recommendations. <i>Nature Reviews Neurology</i> , 2017 , 13, 624-638	15	147
60	Decoding the perception of pain from fMRI using multivariate pattern analysis. <i>NeuroImage</i> , 2012 , 63, 1162-70	7.9	146
59	Prefrontal Gamma Oscillations Encode Tonic Pain in Humans. <i>Cerebral Cortex</i> , 2015 , 25, 4407-14	5.1	129
58	Frontostriatal Gating of Tinnitus and Chronic Pain. <i>Trends in Cognitive Sciences</i> , 2015 , 19, 567-578	14	121
57	Pain suppresses spontaneous brain rhythms. <i>Cerebral Cortex</i> , 2006 , 16, 537-40	5.1	119

56	Decoding an individual's sensitivity to pain from the multivariate analysis of EEG data. <i>Cerebral Cortex</i> , 2012 , 22, 1118-23	5.1	118
55	Amygdala activity contributes to the dissociative effect of cannabis on pain perception. <i>Pain</i> , 2013 , 154, 124-134	8	84
54	Flexible cerebral connectivity patterns subserve contextual modulations of pain. <i>Cerebral Cortex</i> , 2011 , 21, 719-26	5.1	79
53	Neurophysiological coding of traits and states in the perception of pain. <i>Cerebral Cortex</i> , 2011 , 21, 2408-34	5.4	75
52	The effect of treatment history on therapeutic outcome: an experimental approach. <i>JAMA Internal Medicine</i> , 2013 , 173, 1468-9	11.5	69
51	Metabolic connectivity mapping reveals effective connectivity in the resting human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 428-33	11.5	59
50	Gamma oscillations as a neuronal correlate of the attentional effects of pain. <i>Pain</i> , 2010 , 150, 302-308	8	55
49	Brain oscillations differentially encode noxious stimulus intensity and pain intensity. <i>NeuroImage</i> , 2017 , 148, 141-147	7.9	53
48	Oscillatory activity reflects the excitability of the human somatosensory system. <i>NeuroImage</i> , 2006 , 32, 1231-6	7.9	50
47	Prefrontal gamma oscillations reflect ongoing pain intensity in chronic back pain patients. <i>Human Brain Mapping</i> , 2019 , 40, 293-305	5.9	49
46	Wilson's disease tremor is associated with magnetic resonance imaging lesions in basal ganglia structures. <i>Movement Disorders</i> , 2006 , 21, 2134-9	7	40
45	Differential neurophysiological correlates of bottom-up and top-down modulations of pain. <i>Pain</i> , 2015 , 156, 289-296	8	38
44	Differential effects of levodopa and subthalamic nucleus deep brain stimulation on bradykinesia in Parkinson's disease. <i>Movement Disorders</i> , 2008 , 23, 218-27	7	37
43	Functional integration within the human pain system as revealed by Granger causality. <i>Human Brain Mapping</i> , 2009 , 30, 4025-32	5.9	33
42	The effects of treatment failure generalize across different routes of drug administration. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	32
41	Dopamine precursor depletion influences pain affect rather than pain sensation. <i>PLoS ONE</i> , 2014 , 9, e96367	3.67	32
40	Oscillations are involved in the sensorimotor transformation of pain. <i>Journal of Neurophysiology</i> , 2012 , 108, 1025-31	3.2	31
39	Pain facilitates tactile processing in human somatosensory cortices. <i>Journal of Neurophysiology</i> , 2004 , 92, 1825-9	3.2	30

38	Prevalence of neuropathic pain in early multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2016 , 22, 1224-30	5	29
37	The effect of treatment history on therapeutic outcome: psychological and neurobiological underpinnings. <i>PLoS ONE</i> , 2014 , 9, e109014	3.7	29
36	Electroencephalography and magnetoencephalography in pain research-current state and future perspectives. <i>Pain</i> , 2018 , 159, 206-211	8	27
35	Autonomic responses to tonic pain are more closely related to stimulus intensity than to pain intensity. <i>Pain</i> , 2017 , 158, 2129-2136	8	27
34	Brain dysfunction in chronic pain patients assessed by resting-state electroencephalography. <i>Pain</i> , 2019 , 160, 2751-2765	8	27
33	Behavioral and neuronal investigations of hypervigilance in patients with fibromyalgia syndrome. <i>PLoS ONE</i> , 2012 , 7, e35068	3.7	26
32	Modulation of human time processing by subthalamic deep brain stimulation. <i>PLoS ONE</i> , 2011 , 6, e24589	3.7	26
31	Distinct patterns of brain activity mediate perceptual and motor and autonomic responses to noxious stimuli. <i>Nature Communications</i> , 2018 , 9, 4487	17.4	22
30	Pain processing is faster than tactile processing in the human brain. <i>Journal of Neuroscience</i> , 2006 , 26, 10879-82	6.6	20
29	Impaired cerebral oscillatory processing in hepatic encephalopathy. <i>Clinical Neurophysiology</i> , 2008 , 119, 265-72	4.3	19
28	Herpes encephalitis after meningioma resection. <i>Neurology</i> , 2005 , 65, 1674-5	6.5	15
27	Dissociable neural mechanisms underlying the modulation of pain and anxiety? An fMRI pilot study. <i>PLoS ONE</i> , 2014 , 9, e110654	3.7	13
26	Neural oscillations and connectivity characterizing the state of tonic experimental pain in humans. <i>Human Brain Mapping</i> , 2020 , 41, 17-29	5.9	13
25	Behavioral responses to noxious stimuli shape the perception of pain. <i>Scientific Reports</i> , 2017 , 7, 44083	4.9	12
24	Longitudinal prevalence and determinants of pain in multiple sclerosis: results from the German National Multiple Sclerosis Cohort study. <i>Pain</i> , 2020 , 161, 787-796	8	12
23	Fatigue, depression, and pain in multiple sclerosis: How neuroinflammation translates into dysfunctional reward processing and anhedonic symptoms. <i>Multiple Sclerosis Journal</i> , 2020 , 1352458520972279 ¹	5.7	11
22	Influence of pain on motor preparation in the human brain. <i>Journal of Neurophysiology</i> , 2017 , 118, 2267-2274	3.274	10
21	Cortical representation of venous nociception in humans. <i>Journal of Neurophysiology</i> , 2002 , 88, 300-5	3.2	9

20	Towards a taxonomy of pain modulations. <i>Trends in Cognitive Sciences</i> , 2015 , 19, 180-2	14	8
19	Differential effects of painful and non-painful stimulation on tactile processing in fibromyalgia syndrome and subjects with masochistic behaviour. <i>PLoS ONE</i> , 2010 , 5, e15804	3.7	8
18	Acute axonal neuropathy and Wernicke's encephalopathy. <i>Journal of Neurology</i> , 2006 , 253, 1516-7	5.5	8
17	From correlation towards causality: modulating brain rhythms of pain using transcranial alternating current stimulation. <i>Pain Reports</i> , 2019 , 4, e723	3.5	8
16	Case Series: Acute Hemorrhagic Encephalomyelitis After SARS-CoV-2 Vaccination.. <i>Frontiers in Neurology</i> , 2021 , 12, 820049	4.1	4
15	Extensive Recruitment of Plasma Blasts to the Cerebrospinal Fluid in Toscana Virus Encephalitis. <i>Open Forum Infectious Diseases</i> , 2015 , 2, ofv124	1	3
14	Perceptual decisions: from sensory signals to behavior. <i>Current Biology</i> , 2009 , 19, R847-9	6.3	3
13	Wernicke's encephalopathy. <i>Lancet, The</i> , 2003 , 361, 1000	4.0	2
12	Separate representations of static and dynamic touch in human somatosensory thalamus. <i>Neurology</i> , 2000 , 54, 2024-6	6.5	2
11	Behavioural relevance modulates access to spatial working memory in humans. <i>European Journal of Neuroscience</i> , 2001 , 13, 357-363	3.5	2
10	Exploring Dynamic Connectivity Biomarkers of Neuropsychiatric Disorders. <i>Trends in Cognitive Sciences</i> , 2021 , 25, 336-338	14	2
9	Perceptual and motor responses directly and indirectly mediate the effects of noxious stimuli on autonomic responses. <i>Pain</i> , 2019 , 160, 2811-2818	8	2
8	Applying Interdisciplinary Innovations to Advance Theories of Social Behavior: Response to Van Dessel and Colleagues. <i>Trends in Cognitive Sciences</i> , 2019 , 23, 450-451	14	1
7	Spontaneous Cerebrospinal Fluid Leak With Venous Engorgement Mimicking a Contrast-Enhancing Cervical Mass. <i>JAMA Neurology</i> , 2016 , 73, 886-7	17.2	1
6	Evoked response amplitudes from somatosensory cortices do not determine reaction times to tactile stimuli. <i>European Journal of Neuroscience</i> , 2007 , 25, 3734-41	3.5	1
5	Motor Responses to Noxious Stimuli Shape Pain Perception in Chronic Pain Patients. <i>ENeuro</i> , 2018 , 5,	3.9	1
4	Brain dysfunction in chronic pain patients assessed by resting-state electroencephalography		1
3	Dynamics of brain function in patients with chronic pain assessed by microstate analysis of resting-state electroencephalography. <i>Pain</i> , 2021 , 162, 2894-2908	8	1

- 2 Modulating Brain Rhythms of Pain Using Transcranial Alternating Current Stimulation (tACS) - A Sham-Controlled Study in Healthy Human Participants. *Journal of Pain*, **2021**, 22, 1256-1272 5.2 1
- 1 Kortikale Repräsentation von Schmerz. *E-Neuroforum*, **2003**, 9, 72-78