

Christian BÃ¼chel

List of Publications by Year in descending order

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Version: 2024-02-01

122
papers

10,544
citations

57758

44
h-index

36028

97
g-index

138
all docs

138
docs citations

138
times ranked

11273
citing authors

#	ARTICLE	IF	CITATIONS
1	The neural bases of emotion regulation. <i>Nature Reviews Neuroscience</i> , 2015, 16, 693-700.	10.2	826
2	Activation of the Opioidergic Descending Pain Control System Underlies Placebo Analgesia. <i>Neuron</i> , 2009, 63, 533-543.	8.1	694
3	The IMAGEN study: reinforcement-related behaviour in normal brain function and psychopathology. <i>Molecular Psychiatry</i> , 2010, 15, 1128-1139.	7.9	539
4	Painful stimuli evoke different stimulus-response functions in the amygdala, prefrontal, insula and somatosensory cortex: a single-trial fMRI study. <i>Brain</i> , 2002, 125, 1326-1336.	7.6	521
5	Dissociable Systems for Gain- and Loss-Related Value Predictions and Errors of Prediction in the Human Brain. <i>Journal of Neuroscience</i> , 2006, 26, 9530-9537.	3.6	501
6	Mechanisms of placebo analgesia: rACC recruitment of a subcortical antinociceptive network. <i>Pain</i> , 2006, 120, 8-15.	4.2	486
7	Direct Evidence for Spinal Cord Involvement in Placebo Analgesia. <i>Science</i> , 2009, 326, 404-404.	12.6	400
8	Adolescent impulsivity phenotypes characterized by distinct brain networks. <i>Nature Neuroscience</i> , 2012, 15, 920-925.	14.8	368
9	Neuropsychosocial profiles of current and future adolescent alcohol misusers. <i>Nature</i> , 2014, 512, 185-189.	27.8	368
10	Placebo Analgesia: A Predictive Coding Perspective. <i>Neuron</i> , 2014, 81, 1223-1239.	8.1	344
11	Implications of Placebo and Nocebo Effects for Clinical Practice: Expert Consensus. <i>Psychotherapy and Psychosomatics</i> , 2018, 87, 204-210.	8.8	318
12	The Unpleasantness of Perceived Dyspnea Is Processed in the Anterior Insula and Amygdala. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2008, 177, 1026-1032.	5.6	245
13	The Brain's Response to Reward Anticipation and Depression in Adolescence: Dimensionality, Specificity, and Longitudinal Predictions in a Community-Based Sample. <i>American Journal of Psychiatry</i> , 2015, 172, 1215-1223.	7.2	237
14	A functional endophenotype for sexual orientation in humans. <i>NeuroImage</i> , 2006, 33, 825-833.	4.2	224
15	The structure of psychopathology in adolescence and its common personality and cognitive correlates. <i>Journal of Abnormal Psychology</i> , 2016, 125, 1039-1052.	1.9	217
16	Attention Modulates Spinal Cord Responses to Pain. <i>Current Biology</i> , 2012, 22, 1019-1022.	3.9	166
17	Interactions between brain and spinal cord mediate value effects in nocebo hyperalgesia. <i>Science</i> , 2017, 358, 105-108.	12.6	148
18	Functional dissociation of stimulus intensity encoding and predictive coding of pain in the insula. <i>ELife</i> , 2017, 6, .	6.0	137

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19	The role of sleep and sleep deprivation in consolidating fear memories. <i>NeuroImage</i> , 2013, 75, 87-96.	4.2	131
20	Determinants of Early Alcohol Use In Healthy Adolescents: The Differential Contribution of Neuroimaging and Psychological Factors. <i>Neuropsychopharmacology</i> , 2012, 37, 986-995.	5.4	124
21	Effective Connectivity between Hippocampus and Ventromedial Prefrontal Cortex Controls Preferential Choices from Memory. <i>Neuron</i> , 2015, 86, 1078-1090.	8.1	121
22	The neuronal basis of fear generalization in humans. <i>Nature Neuroscience</i> , 2015, 18, 1811-1818.	14.8	115
23	Facilitation of Pain in the Human Spinal Cord by Nocebo Treatment. <i>Journal of Neuroscience</i> , 2013, 33, 13784-13790.	3.6	109
24	Cortical and subcortical responses to high and low effective placebo treatments. <i>NeuroImage</i> , 2013, 67, 227-236.	4.2	109
25	Rethinking Explicit Expectations: Connecting Placebos, Social Cognition, and Contextual Perception. <i>Trends in Cognitive Sciences</i> , 2016, 20, 469-480.	7.8	103
26	Down-Regulation of Insular Cortex Responses to Dyspnea and Pain in Asthma. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2009, 180, 232-238.	5.6	93
27	Intrinsically organized resting state networks in the human spinal cord. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18067-18072.	7.1	93
28	Separate amygdala subregions signal surprise and predictiveness during associative fear learning in humans. <i>European Journal of Neuroscience</i> , 2013, 37, 758-767.	2.6	84
29	Pain-Related Expectation and Prediction Error Signals in the Anterior Insula Are Not Related to Aversiveness. <i>Journal of Neuroscience</i> , 2018, 38, 6461-6474.	3.6	83
30	Spinal Cord Midbrain Functional Connectivity Is Related to Perceived Pain Intensity: A Combined Spino-Cortical fMRI Study. <i>Journal of Neuroscience</i> , 2015, 35, 4248-4257.	3.6	74
31	REM Sleep Is Causal to Successful Consolidation of Dangerous and Safety Stimuli and Reduces Return of Fear after Extinction. <i>Journal of Neuroscience</i> , 2016, 36, 2148-2160.	3.6	73
32	Single, slice-specific z-shim gradient pulses improve T2*-weighted imaging of the spinal cord. <i>NeuroImage</i> , 2012, 59, 2307-2315.	4.2	72
33	The periaqueductal gray and Bayesian integration in placebo analgesia. <i>ELife</i> , 2018, 7, .	6.0	71
34	Association of Protein Phosphatase <i>PPM1G</i> With Alcohol Use Disorder and Brain Activity During Behavioral Control in a Genome-Wide Methylation Analysis. <i>American Journal of Psychiatry</i> , 2015, 172, 543-552.	7.2	68
35	Investigating resting-state functional connectivity in the cervical spinal cord at 3 T. <i>NeuroImage</i> , 2017, 147, 589-601.	4.2	68
36	Expectation requires treatment to boost pain relief: An fMRI study. <i>Pain</i> , 2014, 155, 150-157.	4.2	67

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37	Generic acquisition protocol for quantitative MRI of the spinal cord. <i>Nature Protocols</i> , 2021, 16, 4611-4632.	12.0	65
38	Cognition and the Placebo Effect – Dissociating Subjective Perception and Actual Performance. <i>PLoS ONE</i> , 2015, 10, e0130492.	2.5	64
39	Neural Mechanisms of Attention-Deficit/Hyperactivity Disorder Symptoms Are Stratified by MAOA Genotype. <i>Biological Psychiatry</i> , 2013, 74, 607-614.	1.3	54
40	Brain Regions Related to Impulsivity Mediate the Effects of Early Adversity on Antisocial Behavior. <i>Biological Psychiatry</i> , 2017, 82, 275-282.	1.3	54
41	Peer victimization and its impact on adolescent brain development and psychopathology. <i>Molecular Psychiatry</i> , 2020, 25, 3066-3076.	7.9	54
42	Hedonic processing in humans is mediated by an opioidergic mechanism in a mesocorticolimbic system. <i>eLife</i> , 2018, 7, .	6.0	54
43	Parametric trial-by-trial prediction of pain by easily available physiological measures. <i>Pain</i> , 2014, 155, 994-1001.	4.2	53
44	Neural basis of reward anticipation and its genetic determinants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3879-3884.	7.1	53
45	Combined T2*-weighted measurements of the human brain and cervical spinal cord with a dynamic shim update. <i>NeuroImage</i> , 2013, 79, 153-161.	4.2	50
46	GLRB allelic variation associated with agoraphobic cognitions, increased startle response and fear network activation: a potential neurogenetic pathway to panic disorder. <i>Molecular Psychiatry</i> , 2017, 22, 1431-1439.	7.9	47
47	The Neurofunctional Basis of Affective Startle Modulation in Humans: Evidence From Combined Facial Electromyography and Functional Magnetic Resonance Imaging. <i>Biological Psychiatry</i> , 2020, 87, 548-558.	1.3	46
48	The IMAGEN study: a decade of imaging genetics in adolescents. <i>Molecular Psychiatry</i> , 2020, 25, 2648-2671.	7.9	46
49	Reactivation of Reward-Related Patterns from Single Past Episodes Supports Memory-Based Decision Making. <i>Journal of Neuroscience</i> , 2016, 36, 2868-2880.	3.6	45
50	Effects of prospective thinking on intertemporal choice: The role of familiarity. <i>Human Brain Mapping</i> , 2015, 36, 4210-4221.	3.6	43
51	Suppression of Striatal Prediction Errors by the Prefrontal Cortex in Placebo Hypoalgesia. <i>Journal of Neuroscience</i> , 2017, 37, 9715-9723.	3.6	43
52	Selective Control of Attention Supports the Positivity Effect in Aging. <i>PLoS ONE</i> , 2014, 9, e104180.	2.5	43
53	Ventral striatal signal changes represent missed opportunities and predict future choice. <i>NeuroImage</i> , 2011, 57, 1124-1130.	4.2	42
54	Aversive Learning in Adolescents: Modulation by Amygdala – Prefrontal and Amygdala – Hippocampal Connectivity and Neuroticism. <i>Neuropsychopharmacology</i> , 2014, 39, 875-884.	5.4	41

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55	Subthreshold Depression and Regional Brain Volumes in Young Community Adolescents. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2015, 54, 832-840.	0.5	41
56	EFhd2/Swiprosin-1 is a common genetic determinant for sensation-seeking/low anxiety and alcohol addiction. <i>Molecular Psychiatry</i> , 2018, 23, 1303-1319.	7.9	40
57	Identifying biological markers for improved precision medicine in psychiatry. <i>Molecular Psychiatry</i> , 2020, 25, 243-253.	7.9	40
58	The parietal operculum preferentially encodes heat pain and not salience. <i>PLoS Biology</i> , 2019, 17, e3000205.	5.6	39
59	What Should Clinicians Tell Patients about Placebo and Nocebo Effects? Practical Considerations Based on Expert Consensus. <i>Psychotherapy and Psychosomatics</i> , 2021, 90, 49-56.	8.8	39
60	Neural Mechanisms of Placebo Anxiolysis. <i>Journal of Neuroscience</i> , 2015, 35, 7365-7373.	3.6	38
61	Brain Responses during the Anticipation of Dyspnea. <i>Neural Plasticity</i> , 2016, 2016, 1-10.	2.2	38
62	Inattention and Reaction Time Variability Are Linked to Ventromedial Prefrontal Volume in Adolescents. <i>Biological Psychiatry</i> , 2017, 82, 660-668.	1.3	38
63	Resting-state brain and spinal cord networks in humans are functionally integrated. <i>PLoS Biology</i> , 2020, 18, e3000789.	5.6	37
64	Learning of distant state predictions by the orbitofrontal cortex in humans. <i>Nature Communications</i> , 2019, 10, 2554.	12.8	35
65	Psychosocial Stress and Brain Function in Adolescent Psychopathology. <i>American Journal of Psychiatry</i> , 2017, 174, 785-794.	7.2	34
66	Functional Neuroimaging Predictors of Self-Reported Psychotic Symptoms in Adolescents. <i>American Journal of Psychiatry</i> , 2017, 174, 566-575.	7.2	32
67	Nocebo-induced modulation of cerebral itch processing – An fMRI study. <i>NeuroImage</i> , 2018, 166, 209-218.	4.2	32
68	Dyspnea catastrophizing and neural activations during the anticipation and perception of dyspnea. <i>Psychophysiology</i> , 2018, 55, e13004.	2.4	29
69	Orexin in the anxiety spectrum: association of a HCRTR1 polymorphism with panic disorder/agoraphobia, CBT treatment response and fear-related intermediate phenotypes. <i>Translational Psychiatry</i> , 2019, 9, 75.	4.8	29
70	Neural systems for choice and valuation with counterfactual learning signals. <i>NeuroImage</i> , 2014, 89, 57-69.	4.2	28
71	BDNF Val66Met and reward-related brain function in adolescents: role for early alcohol consumption. <i>Alcohol</i> , 2015, 49, 103-110.	1.7	28
72	Crossmodal plasticity in the fusiform gyrus of late blind individuals during voice recognition. <i>NeuroImage</i> , 2014, 103, 374-382.	4.2	27

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73	Neural Evidence for Adaptive Strategy Selection in Value-Based Decision-Making. <i>Cerebral Cortex</i> , 2014, 24, 2009-2021.	2.9	27
74	Evidence for a spinal involvement in temporal pain contrast enhancement. <i>NeuroImage</i> , 2018, 183, 788-799.	4.2	27
75	Open-access quantitative MRI data of the spinal cord and reproducibility across participants, sites and manufacturers. <i>Scientific Data</i> , 2021, 8, 219.	5.3	27
76	The temporal and spectral characteristics of expectations and prediction errors in pain and thermoception. <i>ELife</i> , 2021, 10, .	6.0	26
77	Modulation of neuronal oscillatory activity in the beta- and gamma-band is associated with current individual anxiety levels. <i>NeuroImage</i> , 2018, 178, 423-434.	4.2	25
78	Cortico-spinal imaging to study pain. <i>NeuroImage</i> , 2021, 224, 117439.	4.2	24
79	Expectation and dyspnoea: the neurobiological basis of respiratory nocebo effects. <i>European Respiratory Journal</i> , 2021, 58, 2003008.	6.7	24
80	Memory detection using fMRI – Does the encoding context matter?. <i>NeuroImage</i> , 2015, 113, 164-174.	4.2	23
81	Reward Versus Nonreward Sensitivity of the Medial Versus Lateral Orbitofrontal Cortex Relates to the Severity of Depressive Symptoms. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2021, 6, 259-269.	1.5	23
82	Predicting development of adolescent drinking behaviour from whole brain structure at 14 years of age. <i>ELife</i> , 2019, 8, .	6.0	22
83	Parental inconsistency, impulsive choice and neural value representations in healthy adolescents. <i>Translational Psychiatry</i> , 2014, 4, e382-e382.	4.8	21
84	From mother to child: orbitofrontal cortex gyrification and changes of drinking behaviour during adolescence. <i>Addiction Biology</i> , 2016, 21, 700-708.	2.6	21
85	Individual variability in brain representations of pain. <i>Nature Neuroscience</i> , 2022, 25, 749-759.	14.8	20
86	Brain-spinal cord interaction in long-term motor sequence learning in human: An fMRI study. <i>NeuroImage</i> , 2022, 253, 119111.	4.2	16
87	Emotion regulation involves both model-based and model-free processes. <i>Nature Reviews Neuroscience</i> , 2016, 17, 532-532.	10.2	15
88	Converging evidence for an impact of a functional <i>NOS</i> gene variation on anxiety-related processes. <i>Social Cognitive and Affective Neuroscience</i> , 2016, 11, 803-812.	3.0	15
89	Neurobehavioural characterisation and stratification of reinforcement-related behaviour. <i>Nature Human Behaviour</i> , 2020, 4, 544-558.	12.0	15
90	Neural network involving medial orbitofrontal cortex and dorsal periaqueductal gray regulation in human alcohol abuse. <i>Science Advances</i> , 2021, 7, .	10.3	15

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91	The human insula processes both modality-independent and pain-selective learning signals. <i>PLoS Biology</i> , 2022, 20, e3001540.	5.6	15
92	Amygdala response to anticipation of dyspnea is modulated by 5-HTT LPR genotype. <i>Psychophysiology</i> , 2015, 52, 973-976.	2.4	14
93	Allele-Specific Methylation of SPDEF: A Novel Moderator of Psychosocial Stress and Substance Abuse. <i>American Journal of Psychiatry</i> , 2019, 176, 146-155.	7.2	14
94	A brain area for catastrophizing. <i>Molecular Psychiatry</i> , 2010, 15, 1045-1045.	7.9	13
95	Investigating the effect of respiratory bodily threat on the processing of emotional pictures. <i>Respiratory Physiology and Neurobiology</i> , 2014, 204, 41-49.	1.6	13
96	BOLD responses to itch in the human spinal cord. <i>NeuroImage</i> , 2015, 108, 138-143.	4.2	13
97	Association of nocebo hyperalgesia and basic somatosensory characteristics in a large cohort. <i>Scientific Reports</i> , 2021, 11, 762.	3.3	13
98	Activation in the angular gyrus and in the pSTS is modulated by face primes during voice recognition. <i>Human Brain Mapping</i> , 2017, 38, 2553-2565.	3.6	12
99	Neural substrates of male parochial altruism are modulated by testosterone and behavioral strategy. <i>NeuroImage</i> , 2017, 156, 265-276.	4.2	12
100	Alpha-to-beta- and gamma-band activity reflect predictive coding in affective visual processing. <i>Scientific Reports</i> , 2021, 11, 23492.	3.3	12
101	How Stereotypes Affect Pain. <i>Scientific Reports</i> , 2019, 9, 8626.	3.3	9
102	Observation of others' painful heat stimulation involves responses in the spinal cord. <i>Science Advances</i> , 2021, 7, .	10.3	8
103	Reactivation of Single-Episode Pain Patterns in the Hippocampus and Decision Making. <i>Journal of Neuroscience</i> , 2021, 41, 7894-7908.	3.6	8
104	The being a patient effect: negative expectations based on group labeling and corresponding treatment affect patient performance. <i>Psychology, Health and Medicine</i> , 2018, 23, 99-105.	2.4	7
105	COMT Val158Met Polymorphism and Social Impairment Interactively Affect Attention-Deficit Hyperactivity Symptoms in Healthy Adolescents. <i>Frontiers in Genetics</i> , 2018, 9, 284.	2.3	7
106	Neuroimaging evidence for structural correlates in adolescents resilient to polysubstance use: A five-year follow-up study. <i>European Neuropsychopharmacology</i> , 2021, 49, 11-22.	0.7	7
107	Opioid analgesia alters corticospinal coupling along the descending pain system in healthy participants. <i>ELife</i> , 2022, 11, .	6.0	7
108	Altered behavioral and neural responsiveness to counterfactual gains in the elderly. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2016, 16, 457-472.	2.0	6

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109	Generalization of placebo pain relief. <i>Pain</i> , 2021, 162, 1781-1789.	4.2	6
110	Brain Signatures During Reward Anticipation Predict Persistent Attention-Deficit/Hyperactivity Disorder Symptoms. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2022, 61, 1050-1061.	0.5	6
111	Dopaminergic receptor blockade changes a functional connectivity network centred on the amygdala. <i>Human Brain Mapping</i> , 2016, 37, 4148-4157.	3.6	4
112	Noradrenergic stimulation increases fear memory expression. <i>European Neuropsychopharmacology</i> , 2021, 43, 71-81.	0.7	4
113	Fixation-pattern similarity analysis reveals adaptive changes in face-viewing strategies following aversive learning. <i>ELife</i> , 2019, 8, .	6.0	4
114	Pain persistence and the pain modulatory system. <i>Pain</i> , 2021, Publish Ahead of Print, .	4.2	4
115	Comparing Painful Stimulation vs Rest in Studies of Pain. <i>JAMA Neurology</i> , 2016, 73, 1258.	9.0	3
116	Predicting change trajectories of neuroticism from baseline brain structure using whole brain analyses and latent growth curve models in adolescents. <i>Scientific Reports</i> , 2020, 10, 1207.	3.3	3
117	Acute stress leaves fear generalization in healthy individuals intact. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2021, 21, 372-389.	2.0	2
118	Neural signature of delayed fear generalization under stress. <i>Psychophysiology</i> , 2021, 58, e13917.	2.4	1
119	“Consensus on Placebo and Nocebo Effects Connects Science with Practice: Reply to “Questioning the Consensus on Placebo and Nocebo Effects”” <i>Psychotherapy and Psychosomatics</i> , 2021, 90, 213-214.	8.8	1
120	Generalization of placebo pain relief. , 2019, , .		0
121	Representation of face-prior precision. , 2019, , .		0
122	Fear Generalization of Emotional Stimuli Can Be Explained By a Bayesian Inference Model. , 2019, , .		0