

# 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	Brain-spinal cord interaction in long-term motor sequence learning in human: An fMRI study. <i>NeuroImage</i> , 2022, 253, 119111.	4.2	16
2	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
3	Opioid analgesia alters corticospinal coupling along the descending pain system in healthy participants. <i>ELife</i> , 2022, 11, .	6.0	7
4	The human insula processes both modality-independent and pain-selective learning signals. <i>PLoS Biology</i> , 2022, 20, e3001540.	5.6	15
5	Individual variability in brain representations of pain. <i>Nature Neuroscience</i> , 2022, 25, 749-759.	14.8	20
6	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
7	Cortico-spinal imaging to study pain. <i>NeuroImage</i> , 2021, 224, 117439.	4.2	24
8	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
9	Expectation and dyspnoea: the neurobiological basis of respiratory nocebo effects. <i>European Respiratory Journal</i> , 2021, 58, 2003008.	6.7	24
10	Neural network involving medial orbitofrontal cortex and dorsal periaqueductal gray regulation in human alcohol abuse. <i>Science Advances</i> , 2021, 7, .	10.3	15
11	The temporal and spectral characteristics of expectations and prediction errors in pain and thermoception. <i>ELife</i> , 2021, 10, .	6.0	26
12	Noradrenergic stimulation increases fear memory expression. <i>European Neuropsychopharmacology</i> , 2021, 43, 71-81.	0.7	4
13	Acute stress leaves fear generalization in healthy individuals intact. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2021, 21, 372-389.	2.0	2
14	Observation of others's™ painful heat stimulation involves responses in the spinal cord. <i>Science Advances</i> , 2021, 7, .	10.3	8
15	Reactivation of Single-Episode Pain Patterns in the Hippocampus and Decision Making. <i>Journal of Neuroscience</i> , 2021, 41, 7894-7908.	3.6	8
16	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
17	Generic acquisition protocol for quantitative MRI of the spinal cord. <i>Nature Protocols</i> , 2021, 16, 4611-4632.	12.0	65
18	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

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19	Neural signature of delayed fear generalization under stress. <i>Psychophysiology</i> , 2021, 58, e13917.	2.4	1
20	Association of nocebo hyperalgesia and basic somatosensory characteristics in a large cohort. <i>Scientific Reports</i> , 2021, 11, 762.	3.3	13
21	“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
22	Pain persistence and the pain modulatory system. <i>Pain</i> , 2021, Publish Ahead of Print, .	4.2	4
23	Generalization of placebo pain relief. <i>Pain</i> , 2021, 162, 1781-1789.	4.2	6
24	Alpha-to-beta- and gamma-band activity reflect predictive coding in affective visual processing. <i>Scientific Reports</i> , 2021, 11, 23492.	3.3	12
25	Peer victimization and its impact on adolescent brain development and psychopathology. <i>Molecular Psychiatry</i> , 2020, 25, 3066-3076.	7.9	54
26	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
27	Identifying biological markers for improved precision medicine in psychiatry. <i>Molecular Psychiatry</i> , 2020, 25, 243-253.	7.9	40
28	The IMAGEN study: a decade of imaging genetics in adolescents. <i>Molecular Psychiatry</i> , 2020, 25, 2648-2671.	7.9	46
29	Resting-state brain and spinal cord networks in humans are functionally integrated. <i>PLoS Biology</i> , 2020, 18, e3000789.	5.6	37
30	Neurobehavioural characterisation and stratification of reinforcement-related behaviour. <i>Nature Human Behaviour</i> , 2020, 4, 544-558.	12.0	15
31	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
32	The parietal operculum preferentially encodes heat pain and not salience. <i>PLoS Biology</i> , 2019, 17, e3000205.	5.6	39
33	How Stereotypes Affect Pain. <i>Scientific Reports</i> , 2019, 9, 8626.	3.3	9
34	Learning of distant state predictions by the orbitofrontal cortex in humans. <i>Nature Communications</i> , 2019, 10, 2554.	12.8	35
35	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
36	Allele-Specific Methylation of <i>SPDEF</i> : A Novel Moderator of Psychosocial Stress and Substance Abuse. <i>American Journal of Psychiatry</i> , 2019, 176, 146-155.	7.2	14

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37	Predicting development of adolescent drinking behaviour from whole brain structure at 14 years of age. <i>ELife</i> , 2019, 8, .	6.0	22
38	Fixation-pattern similarity analysis reveals adaptive changes in face-viewing strategies following aversive learning. <i>ELife</i> , 2019, 8, .	6.0	4
39	Generalization of placebo pain relief. , 2019, , .		0
40	Representation of face-prior precision. , 2019, , .		0
41	Fear Generalization of Emotional Stimuli Can Be Explained By a Bayesian Inference Model. , 2019, , .		0
42	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
43	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
44	Dyspnea catastrophizing and neural activations during the anticipation and perception of dyspnea. <i>Psychophysiology</i> , 2018, 55, e13004.	2.4	29
45	Nocebo-induced modulation of cerebral itch processing – An fMRI study. <i>NeuroImage</i> , 2018, 166, 209-218.	4.2	32
46	Evidence for a spinal involvement in temporal pain contrast enhancement. <i>NeuroImage</i> , 2018, 183, 788-799.	4.2	27
47	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
48	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
49	The periaqueductal gray and Bayesian integration in placebo analgesia. <i>ELife</i> , 2018, 7, .	6.0	71
50	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
51	Implications of Placebo and Nocebo Effects for Clinical Practice: Expert Consensus. <i>Psychotherapy and Psychosomatics</i> , 2018, 87, 204-210.	8.8	318
52	Hedonic processing in humans is mediated by an opioidergic mechanism in a mesocorticolimbic system. <i>ELife</i> , 2018, 7, .	6.0	54
53	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
54	Inattention and Reaction Time Variability Are Linked to Ventromedial Prefrontal Volume in Adolescents. <i>Biological Psychiatry</i> , 2017, 82, 660-668.	1.3	38

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55	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
56	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
57	Psychosocial Stress and Brain Function in Adolescent Psychopathology. <i>American Journal of Psychiatry</i> , 2017, 174, 785-794.	7.2	34
58	Neural substrates of male parochial altruism are modulated by testosterone and behavioral strategy. <i>NeuroImage</i> , 2017, 156, 265-276.	4.2	12
59	Functional Neuroimaging Predictors of Self-Reported Psychotic Symptoms in Adolescents. <i>American Journal of Psychiatry</i> , 2017, 174, 566-575.	7.2	32
60	Investigating resting-state functional connectivity in the cervical spinal cord at 3 T. <i>NeuroImage</i> , 2017, 147, 589-601.	4.2	68
61	Interactions between brain and spinal cord mediate value effects in placebo hyperalgesia. <i>Science</i> , 2017, 358, 105-108.	12.6	148
62	Suppression of Striatal Prediction Errors by the Prefrontal Cortex in Placebo Hypoalgesia. <i>Journal of Neuroscience</i> , 2017, 37, 9715-9723.	3.6	43
63	Functional dissociation of stimulus intensity encoding and predictive coding of pain in the insula. <i>eLife</i> , 2017, 6, .	6.0	137
64	Brain Responses during the Anticipation of Dyspnea. <i>Neural Plasticity</i> , 2016, 2016, 1-10.	2.2	38
65	Rethinking Explicit Expectations: Connecting Placebos, Social Cognition, and Contextual Perception. <i>Trends in Cognitive Sciences</i> , 2016, 20, 469-480.	7.8	103
66	Comparing Painful Stimulation vs Rest in Studies of Pain. <i>JAMA Neurology</i> , 2016, 73, 1258.	9.0	3
67	Dopaminergic receptor blockade changes a functional connectivity network centred on the amygdala. <i>Human Brain Mapping</i> , 2016, 37, 4148-4157.	3.6	4
68	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
69	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
70	Emotion regulation involves both model-based and model-free processes. <i>Nature Reviews Neuroscience</i> , 2016, 17, 532-532.	10.2	15
71	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
72	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

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73	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
74	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
75	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
76	Effects of prospective thinking on intertemporal choice: The role of familiarity. <i>Human Brain Mapping</i> , 2015, 36, 4210-4221.	3.6	43
77	Amygdala response to anticipation of dyspnea is modulated by 5-HTT LPR genotype. <i>Psychophysiology</i> , 2015, 52, 973-976.	2.4	14
78	Cognition and the Placebo Effect – Dissociating Subjective Perception and Actual Performance. <i>PLoS ONE</i> , 2015, 10, e0130492.	2.5	64
79	Association of Protein Phosphatase-1 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
80	Effective Connectivity between Hippocampus and Ventromedial Prefrontal Cortex Controls Preferential Choices from Memory. <i>Neuron</i> , 2015, 86, 1078-1090.	8.1	121
81	The neuronal basis of fear generalization in humans. <i>Nature Neuroscience</i> , 2015, 18, 1811-1818.	14.8	115
82	BOLD responses to itch in the human spinal cord. <i>NeuroImage</i> , 2015, 108, 138-143.	4.2	13
83	BDNF Val66Met and reward-related brain function in adolescents: role for early alcohol consumption. <i>Alcohol</i> , 2015, 49, 103-110.	1.7	28
84	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
85	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
86	Neural Mechanisms of Placebo Anxiolysis. <i>Journal of Neuroscience</i> , 2015, 35, 7365-7373.	3.6	38
87	Memory detection using fMRI – Does the encoding context matter?. <i>NeuroImage</i> , 2015, 113, 164-174.	4.2	23
88	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
89	The neural bases of emotion regulation. <i>Nature Reviews Neuroscience</i> , 2015, 16, 693-700.	10.2	826
90	Parental inconsistency, impulsive choice and neural value representations in healthy adolescents. <i>Translational Psychiatry</i> , 2014, 4, e382-e382.	4.8	21

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91	Aversive Learning in Adolescents: Modulation by Amygdala-Prefrontal and Amygdala-Hippocampal Connectivity and Neuroticism. <i>Neuropsychopharmacology</i> , 2014, 39, 875-884.	5.4	41
92	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
93	Parametric trial-by-trial prediction of pain by easily available physiological measures. <i>Pain</i> , 2014, 155, 994-1001.	4.2	53
94	Expectation requires treatment to boost pain relief: An fMRI study. <i>Pain</i> , 2014, 155, 150-157.	4.2	67
95	Placebo Analgesia: A Predictive Coding Perspective. <i>Neuron</i> , 2014, 81, 1223-1239.	8.1	344
96	Crossmodal plasticity in the fusiform gyrus of late blind individuals during voice recognition. <i>NeuroImage</i> , 2014, 103, 374-382.	4.2	27
97	Neural Evidence for Adaptive Strategy Selection in Value-Based Decision-Making. <i>Cerebral Cortex</i> , 2014, 24, 2009-2021.	2.9	27
98	Neuropsychosocial profiles of current and future adolescent alcohol misusers. <i>Nature</i> , 2014, 512, 185-189.	27.8	368
99	Neural systems for choice and valuation with counterfactual learning signals. <i>NeuroImage</i> , 2014, 89, 57-69.	4.2	28
100	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
101	Selective Control of Attention Supports the Positivity Effect in Aging. <i>PLoS ONE</i> , 2014, 9, e104180.	2.5	43
102	Facilitation of Pain in the Human Spinal Cord by Nocebo Treatment. <i>Journal of Neuroscience</i> , 2013, 33, 13784-13790.	3.6	109
103	Neural Mechanisms of Attention-Deficit/Hyperactivity Disorder Symptoms Are Stratified by MAOA Genotype. <i>Biological Psychiatry</i> , 2013, 74, 607-614.	1.3	54
104	Cortical and subcortical responses to high and low effective placebo treatments. <i>NeuroImage</i> , 2013, 67, 227-236.	4.2	109
105	The role of sleep and sleep deprivation in consolidating fear memories. <i>NeuroImage</i> , 2013, 75, 87-96.	4.2	131
106	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
107	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
108	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

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109	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
110	Adolescent impulsivity phenotypes characterized by distinct brain networks. <i>Nature Neuroscience</i> , 2012, 15, 920-925.	14.8	368
111	Attention Modulates Spinal Cord Responses to Pain. <i>Current Biology</i> , 2012, 22, 1019-1022.	3.9	166
112	Ventral striatal signal changes represent missed opportunities and predict future choice. <i>NeuroImage</i> , 2011, 57, 1124-1130.	4.2	42
113	A brain area for catastrophizing. <i>Molecular Psychiatry</i> , 2010, 15, 1045-1045.	7.9	13
114	The IMAGEN study: reinforcement-related behaviour in normal brain function and psychopathology. <i>Molecular Psychiatry</i> , 2010, 15, 1128-1139.	7.9	539
115	Direct Evidence for Spinal Cord Involvement in Placebo Analgesia. <i>Science</i> , 2009, 326, 404-404.	12.6	400
116	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
117	Activation of the Opioidergic Descending Pain Control System Underlies Placebo Analgesia. <i>Neuron</i> , 2009, 63, 533-543.	8.1	694
118	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
119	A functional endophenotype for sexual orientation in humans. <i>NeuroImage</i> , 2006, 33, 825-833.	4.2	224
120	Mechanisms of placebo analgesia: rACC recruitment of a subcortical antinociceptive network. <i>Pain</i> , 2006, 120, 8-15.	4.2	486
121	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
122	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